vDesigner User Guide

Version No: 1.0

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1. Introduction

1.1 Document Purpose

The purpose of this document is to explain the features and functions that a user can use to design interactive mobile apps. VDesigner is a web based application to design mobile apps. The document broadly explains several but important "how-to" functions by answering them in simple written simply written step-by-step instructions.

1.2 Document Scope

The functional scope of this document includes the following sections:

Section1:- This is the current section of the document, which provides general information as follows:

- Purpose of the document
- Functional scope of the document (Current heading section)
- > Audience that can access the content of document
- > List of abbreviated terms along with their full description, and
- Reference document (If any)

Section2:- This section covers the functional description of the vDesigner application. The document attempts to cover all the important functions by describing them through small modules. These modules help users perform the functions to design a mobile app and its intended functional behavior.

1.3 Intended Audience

This document is mainly written for mobile app designer team. In Decimal Technologies, the mobile app designer team, software development team can access this document. Apart from Decimal technologies' experts and team members, the mobile app development team from channel partners, client organizations can source this document to learn several functions that they therefore can perform on the vDesigner application.

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1.4 Acronyms and Abbreviation

The following table contains the list of abbreviated terms that have been repeatedly used in the document. The table also contains the full description of the document.

Term	Description
API	Application programming Interface
JSON	Java Script Object Notation
OTP	One Time Password
UI	User Interface
КҮС	Know Your Customer

1.5 Reference Document

Through different modules, this document covers almost every functionality that the vDesigner application provides to the user to design and develop a mobile app. In conjunction of the features and functions of the vDesigner application, this document sources an important chunk of information from the following document.

Document Name	Version	Date	Company/Organization
vDesigner Navigation	1.0	25 th March, 2020	Decimal Technologies
Manual v1.0			Pvt. Ltd.

To source the vDesigner Navigation Manual v1.0, you can ask Decimal technologies' product/technical team.



2. vDesigner Application Overview

vDesigner is a web based application that allows you to design and develop interactive mobile apps. It incorporates multiple common controls and pre-defined templates to design app layout and screens. You can efficiently use it to place and manage multiple UI (User interface) objects and controls across different screens.

The main advantage of using the vDesigner application is that it requires minimal coding efforts to design a mobile app. By using simple PnP (Plug and Play) types of features, you can design robust mobile apps and implement complex and most prevalent features instantly and cost-effectively. Conclusively, it separates the design concern from the implementation aspect of mobile app development so that you can efficiently focus on the functional behavior of the mobile app.

The vDesigner application mainly provides the following functional benefits:

- Creating dynamic form
- > Providing drag and drop elements and widgets
- > Applying validation, regex, and business rules
- > Building mobile app workflow based on customer specific requirement
- > Instantly deploying app and downloading APK file
- Low cost ownership

To proficiently perform the function on the vDesigner application, you mandatorily must be have the working knowledge of the following tools and concepts:

> Basic Knowledge

- o JSON Objects
- API(s) and Signatures
- In-depth Knowledge
 - Data Modeling
 - o Business Requirements, and rules and validation

Different features of the vDesigner application are described in the following modules:



3. vDesigner Modules

3.1 Configuring a Form and Adding Controls

This section describes how to add and configure a form or screen. After you access the vDesigner application, it, by default, creates and displays a home page. Apart from the home page, you can add new forms and then configure them based on the mobile app related requirements.

3.1.1 Configuring a New Form

To add and configure a new form:

1. On Vahana's project management workbench, locate the vDesigner tile (Fig 3.1.1 (a)).

•	5	RPI	1.
Environment	vDesigner	vConnect	vEnable
23-01-2020	23-01-2020	23-01-2020	23-01-2020
Register your application environments and conligure Symc agent	Design as you Ideate for mobile applications	Integrate Develop and Publish third party api using various connectors	Dusign self service application for customers headback and data capture



2. Click the vDesigner tile, vDesigner's home page (Fig 3.1.1 (b)) opens.



(Fig 3.1.1 (b))

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In the left navigation pane, click Add Screen, the Dataon Full Form Definition dialog box (Fig 3.1.1 (c)) opens.

Form Header*	Header2	Back Option*
		HOME
Back Option Msg Id	Info Msg On Next Form	Create Action Id
Message Master	Message Master	Create Action
Stop Action Id	Back Action Id	Disable Br Rule Id
Create Action	Create Action	Business Rule
Form Plus Group	Drawer Name	Sticky Menu
Selected Sticky Item	Sticky Menu Template	Sticky Menu Selected Icon
	Select	

(Fig 3.1.1 (c))

<u>Note</u>:-The **Dataon Full Form Definition** dialog box can be referred to as property sheet of any entity and/or element. In the **Dataon Full Form Definition** dialog box or property sheet, you configure the entity.

4. In the **Dataon Full Form Definition** dialog box, enter the values in the respective boxes to configure a form as follows:

Вох	Description
Form Header	In this box, enter the title of the form (For example:- Personal Details)
Header 2	In this box, enter the sub-heading of the form (For example: - Please fill following details). The sub-heading of the form is displayed under the title of the form.
Back Option	Click this list to configure the back option. The back option allows you to navigate to the desired page after you tap the back option on the current form/page. For instance: - In the Back Option list, if you select Home . The back option will take you to the home page after you tap the back option on the current form.
Form Plus Group	Click in this box and then select PLUSGROUP_HOME to add a plus group on the form.
Drawer Name	Click this box and then select DRAWER_HOME to add new hamburger drawer.

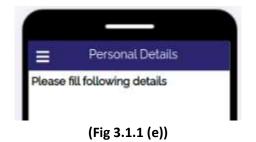
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Form Header*	Header2	Back Option*
Personal Details	Please fill following details	PREVIOUS FORM Y
Back Option Msg Id	Info Msg On Next Form	Create Action Id
Message Master	Message Master	Create Action
Form Plus Group	Drawer Name	Sticky Menu
Form Plus Group	Drawer Name	Sticky Menu
Selected Sticky Item	Sticky Menu Template	Sticky Menu Selected icon
	Select	,

(Fig 3.1.1 (d))

5. After you enter or select the values in the respective box/list, click **Save (Fig 3.1.1 (d))**, the form is successfully configured.



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3.1.2 Adding Controls

After you successfully add and configure a form, you can add multiple controls to the form. These controls are added to the form to impart the functionality to the respective form. The selection of the control, which has to be added to the form, entirely depends on the workflow of the form and the mobile app.

The vDesigner application offers you two categories of controls or elements. These categories are: *Standard* and *Custom*.

1. Standard Elements

The **Standard** category of elements includes commonly used elements/controls such as text field (text box), label, radio button, check box, bottom button, dropdown list, date, hyperlink, and others. You can add these controls to the form based on the functional requirement on the respective form.

2. Custom Elements

The **Custom** category of element provides you a few special elements, which are used for specific jobs. These elements are AADHAAR Biometric Auth, AADHAAR Biometric KYC, audio recorder, date time slot, email, email with domain, and drop down with button, google map, mobile number, OTP, and others.

To know the functionality of each element, source the vDesigner Navigation Manual for your reference.

The following heading sections describe to add a few but prevalent controls that are frequently used to design and develop a mobile app.

3.1.2.1 Adding a Text Field

To add a text field:

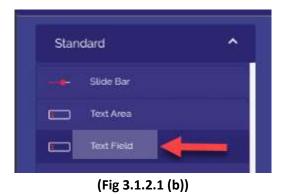
1. On the left navigation pane, click **Standard**, the **Standard** menu (Fig 3.1.2.1 (a)) expands.

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Add Sci	reen	+
Configu	re Landing Page	~
Elemen	ts	^
Stan	dard	^
	Action Bar Button	
	Barcode Reader	
	Bottom Button	
	Capture Image	
ď	Check Box	
		A.C.I.

(Fig 3.1.2.1 (a))

2. Under Standard, scroll down and locate the Text Field element (Fig 3.1.2.1 (b)).



3. Click the **Text Field** element (Fig 3.1.2.1 (b)), the **TextField Definition** dialog box (Fig 3.1.2.1 (c)) opens.

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3665	Textfield Definition	
Label*	Absolute Json Path*	Input Control*
		Select •
Mandatory*	Is Visible	is Enabled
● Yes ◎ No	● Yes ◎ No	Yes No
Default Value	Validation Regex	Masking Scheme
Min Length	Max Length	Min Value
Max Value	Message Id Mandatory	Message On Regex Fail
	Message Master	Message Master

(Fig 3.1.2.1 (c))

4. On the **TextField Definition** dialog box, enter values in the respective boxes as follows:

Box/List	Description
Label	In this box, enter label (For example:- Name) of the text field that is displayed to
	the left of the text field
Absolute JSON	In this box, enter the absolute json path as follows: \$.POD.name. This json path
Path	denotes the location where the configuration details of this element are stored.
Input Control	Click this list to select the condition to enter the value in the text field. For
	example: - If you select Char With Title Case, it means that the user can enter only
	alphabetic characters with first character in capital letters.
Mandatory	Click Yes if you want to make the text field as a mandatory element.
Is Visible	Click Yes if you want to make the element visible after the respective form is
	displayed.
Is Enable	Click Yes if you want to make the element as active element. In the active
	element, the user can enter the value.
Message ID	This feature is used to configure the message against the user action on the text
Mandatory	field. To configure the message:
	Click Message Master, the Message Master dialog box (Fig 3.1.2.1 (d)) opens.
	In the Message Master dialog box, select the message that you want to
	display if the user forgets to fill the value in the text field.
	If you want to add the new message:
	Click the Message Type list and then select:
	 W to add a warning message.

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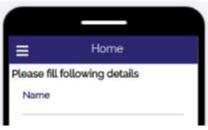
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- E to add an error message.
- I to add information type message.
- > After you select the message type, click the **Description** box.
- In the **Description** box, enter the text of message (For example: Please fill correct value.)
- After you enter the text/description of the message, click Add Message, the message is successfully configured.

Search by msg id	٩	Search by msg description	Q. Showing Page 1/2 < >		
Message id 💙	Message Type 💙	Description 💌			
WARN01		Are you sure you want to exit ?		ø	1
LOG101	ă 👘	Are you sure you want to logout ?	Select the message that you want to	œ	R
EXIT101	w	Do you really want to exit ?	display as a result of user action or inaction.	B	E
LIST000001	3	No Data	user action or inaction.	ß	8
100000111	3	No network available.		12	1
Message Type	Descript	on			
	 Add de 	scription	Add N	lessig	e

(Fig 3.1.2.1 (d))

After you enter values in the respective boxes, click Save (Fig 3.1.2.1 (c)), the text field (Fig 3.1.2.1 (e)) is successfully configured.



(Fig 3.1.2.1 (e))

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3.1.2.2 Adding Capture Image Element

This section describes how to add Capture Image control on the form. After you add Capture Image control, you can configure this element to capture the image from your mobile device.

To add the image element:

1. On the left navigation pane, click Standard, the Standard menu (Fig 3.1.2.2 (a)) expands.

Add Screen	+
Configure Landing Page	~
Elements	^
Standard	^
Action Bar Button	
Barcode Reader	
Bottom Button	
Capture Image	
Check Box	

(Fig 3.1.2.2 (a))

2. Under Standard, scroll down and locate the Capture Image element (Fig 3.1.2.2 (b)).



(Fig 3.1.2.2 (b))

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3. Click the **Capture Image** element, the **Image** dialog box **(Fig 3.1.2.2 (c))** opens.

D: 103556	Image	
Label*	Mandatory* Ves No	Message Id Mandatory Message Master
Business Rule For Visibility Business Rule	Business Rule For Disable Business Rule	Control Group Control Group
Is Visible Yes O No	Is Enabled Yes No	Text Gravity Select
+ Add Action + Image With Text	+ Image Source	Save Cancel

(Fig 3.1.2.2 (c))

4. In the **Image** dialog box, perform the functions as follows:

Вох	Description		
Label	In this box, enter the label name or title of the image (For example: -		
	Upload Your Image).		
Mandatory	Click Yes if you want to make the capture image function as a mandatory		
	activity.		
Message Id Mandatory	This feature is used to configure the message if the user forgets to perform		
	the action on the element. To configure a new message:		
	Click Message Master, the Message Master dialog box opens.		
	In the Message Master dialog box, click the Message Type list and		
	then select I to add information type message.		
	After you select the message type, click the Description box.		
	In the Description box, enter the text of message (For example: -		
	Please upload your image.)		
	After you enter the text/description of the message, click Add		
	Message, the message is successfully configured.		

5. After you perform these functions on the **Image** dialog box, click **Image Source (Fig 3.1.2.2 (c))**, the **Image Definition Form** dialog box (**Fig 3.1.2.2 (d)**) opens.

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Doc Id*		Absolute Json Path*		Image Count Ass Attribute Id*	
j.		S.POD.IMAGE_PATH		\$PODJMAGE_COUNT	
Purpose Id*		Doc Type Attr		Doc Bundle Id Attr	
1					
Image Destination*		Pri Køy 2 Attr		Pri Køy 3 Attr	
TABLE	٠				
Folder		Keep Deleted Image*		Default Camera*	
		Select	•		•
Compression Required*		Select Yes No		Image Format	
Yes		Document		JPEG	

(Fig 3.1.2.2 (d))

6. In the Image Definition Form dialog box, enter values in the respective mandatory boxes as follows:

Вох	Description
Absolute JSON Path	In this box, enter the path (For example: - \$.POD.IMAGE_PATH) where the value of the image will be stored.
	Note:- Following the POD object, you can enter any random name (For example:- IMAGE_PATH) where the value of image is stored.
Image Count Ass Attribute	In this box, enter or define the attribute ID (For example: - \$.POD.IMAGE_COUNT, in which the total count of captured images is stored. In this expression, the total count of captured images is stored in the IMAGE_COUNT variable.
Keep Deleted Image	 In this list, click to select: Yes if you do not want to store the image file locally after the image is captured. No if want to store the image file locally after the image is captured.
Default Camera	 In this list, click to select: Front if you want to use the front camera to capture the image. Back if you want to use the back camera to capture the image.
Compression Required	In this list, click to select: Yes if you want to compress the image after it is captured. No if you do not want to compress the image after it is captured.

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Camera Template Id	Click this list to select the type of shape, in which you want the image should		
	be displayed after it is captured. For instance: - If you select Document , the		
	image is displayed in the rectangular shape after it is captured.		
Max Image Allowed	In this box, enter the numeric value (For example:- 4) that specifies the		
	maximum number of image the user can capture of single object/document.		
Resolution	In this box, enter the resolution of the captured image in the following format:		
	Height of image in pixel unit*Width of image in pixel unit (For example: -		
	320*640).		
Image Size Kb	In this box, enter the numeric value (For example: - 1000) in the kilo byte unit.		
	The entered value specifies the maximum amount of size of an image that you		
	can capture.		

- 7. After you enter values in the respective boxes, click **Save**, the image source is successfully configured.
- 8. On the **Image** dialog box, click Save, the **Capture Image** control **(Fig 3.1.2.2 (e))** is successfully configured.

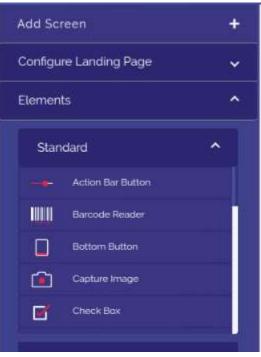


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3.1.2.3 Adding Date Element

To add a date control/element:

1. On the left navigation pane, click Standard, the Standard menu (Fig 3.1.2.3 (a)) expands.



(Fig 3.1.2.3 (a))

2. Under Standard, scroll down and locate the Date element (Fig 3.1.2.3 (b)).



(Fig 3.1.2.3 (b))

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3. Click the **Date** element, the **Please Provide Date** dialog box (Fig 3.1.2.3 (c)) opens.

Is Enabled Yes No Min Length
Min Length
Message For Min Length Fail Message Master
Business Rule For Disable
Business Rute

(Fig 3.1.2.3 (c))

4. In the **Please Provide Date** dialog box, enter values in the respective boxes as follows:

Вох	Description	
Label	In this box, enter the label name (For example: - Date of Birth) of the Date	
	element.	
Is Visible	Click Yes if you want to make the element visible after the respective form is	
	displayed.	
Is Enable	Click Yes if you want to make the element as active element. In the active	
	element, the user can enter the value.	
Absolute Json	In this box, enter the absolute json path as follows: \$.POD.DOB. In the	
Path	\$.POD.DOB element, the DOB variable stores the value of the Date of Birth	
	element.	
Min Length	In this box, enter value: CD0-100Y. The value: CD0-100Y specifies that you can	
	select the date for the last hundred years in the digital calendar.	
Max Length	In this box, enter value: CD0. The value: CD0 specifies that you can select the date	
	up to current date in the digital calendar.	
Mandatory	Click Yes to make this element as the mandatory field/element.	
Message For Min	This feature is used to configure the message after the user selects the wrong	
Length Fall	date. To configure the message:	
	Click Message Master, the Message Master dialog box opens.	
	> In the Message Master dialog box, click the Message Type list and then select	
	E to add error message.	
	After you select the message type, click the Description box.	

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	 In the Description box, enter the text of message (For example: - Please enter correct date.) 	
	After you enter the text/description of the message, click Add Message, the message is successfully configured.	
Message ID	This feature is used to configure the message if the user forgets to enter the date.	
Mandatory	To configure the message:	
	Click Message Master, the Message Master dialog box opens.	
	In the Message Master dialog box, click the Message Type list and then select E to add error message.	
	After you select the message type, click the Description box.	
	In the Description box, enter the text of message (For example: - Please enter the date.)	
	After you enter the text/description of the message, click Add Message, the message is successfully configured.	

5. After you enter values in the respective boxes, click **Save**, the Date element is successfully configured.



(Fig 3.1.2.3 (d))

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3.1.2.4 Adding Radio Button Element

The radio button element works as a mutually exclusive option button. In the mutually exclusive option buttons, you can select only one option at a given point of time.

To add the radio button element:

1. On the left navigation pane, click **Standard**, the **Standard** menu (Fig 3.1.2.4 (a)) expands.

Add Sci	Add Screen	
Configu	re Landing Page	~
Elemen	ts	^
Stan	dard	^
-+	Action Bar Button	
	Barcode Reader	
	Bottom Button	
	Capture Image	
	Check Box	

(Fig 3.1.2.4 (a))

2. Under Standard, scroll down and locate the Radio Button element (Fig 3.1.2.4 (b)).



(Fig 3.1.2.4 (b))

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3. Click the Radio Button element, the Radio Button dialog box (Fig 3.1.2.4 (c)) opens.

Label*	Absolute ison Path*	Default Value
Is Visible	is Enabled	Mandatory
€ Yes ◎ No		® Ves ◎ No
Business Rule For Visibility	Business Rule For Disable	Message id Mandatory
Business Rule	Business Rule	Meesage Master
BR Applicability	Control Group	
Wes No	Control Group	

(Fig 3.1.2.4 (c))

4. On the Radio Button dialog box, enter values in the respective boxes as follows:

Вох	Description
Label	In this box, enter the label (For example: - Gender) of the radio button. This label
	name can contain multiple options as radio button.
Absolute Json	In this box, enter the absolution Json path as follows:
Path	\$.POD.GENDER
	In the Json path, the Gender variable stores the value of radio button.
Is Visible	Click Yes if you want to make the element visible after the respective form is
	displayed.
Is Enable	Click Yes if you want to make the element as an active element. The user can
	perform the function on the active element.
Mandatory	Click Yes if you want to make the element as a mandatory element.

5. After you enter values in the respective boxes, click **CG Source (Fig 3.1.2.4 (c))**, the **CG Source** dialog box (**Fig 3.1.2.4 (d)**) opens.

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	CG Source	e	
CG Source Type	Coder	Value"	
FIXED			
LOV	Parent Code	Visibility Valid (D Rustimus Rule	8
во			.10
ONLINE			
	+ Add Row		Next
			Cancel

(Fig 3.1.2.4 (d))

- 6. On the CG Source dialog box, locate the CG Source left panel (Fig 3.1.2.4 (d)).
- 7. Under **CG Source**, click **Fixed (Fig 3.1.2.4 (d))**, a group of different fields opens.
- 8. In the group of fields, enter values in the respective boxes as follows:

Вох	Description
Code	In this box, enter abbreviated or one character code (For example: - 1) of the
	actual value. For instance: - You can enter 1 numeric value as a code for the radio
	button with value: Male.
Value	In this box, enter the actual value (For example: - Male) of the radio button that is
	displayed on the form.

- 9. To add the next radio button, click Add Row (Fig 3.1.2.4 (d)), another group of fields opens.
- 10. In the group of fields, enter values as follows:
- In the Code box, enter 2.
- In the Value box, enter Female.
- 11. Repeat the steps 9 and 10 to add other radio buttons.
- 12. After you add all the radio buttons, click Next (Fig 3.1.2.4 (d)), the Value Sequence panel (Fig 3.1.2.4 (e)) displays the details of radio buttons that you have added.

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	CG Source	e e	
CG Source Type		Values Sequence	
FIXED	Value: Male	Value Id: 1	
LOV	Parent Code:	Visibility Valid ID :	
во	Value: Female	Value ld: 2	
ONLINE	Parent Code:	Visibility Valid ID :	
	Back		Save
			Cancel

(Fig 3.1.2.4 (e))

- 13. After you ensure that the details of added radio buttons are correct, click **Save**, the **CG Source** dialog box is closed.
- 14. On the Radio Button dialog box, click Save, the **Radio Button** element is successfully configured.



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3.1.2.5 Adding Bottom Button

In the mobile app, bottom button works similar to a push button. The bottom button remains static and is placed at the bottom of the mobile app after it is configured in the vDesigner application.

To add a bottom button:

1. On the left navigation pane, click **Standard**, the **Standard** menu (Fig 3.1.2.5 (a)) expands.

Add Sc	reen	+
Configu	ire Landing Page	*
Elemen	ts	^
Star	Idard	^
-+	Action Bar Button	
	Barcode Reader	
	Bottom Button	
	Capture Image	
ø	Check Box	

(Fig 3.1.2.5 (a))

2. Under Standard, click the Bottom Button link, the Bottom Button dialog box (Fig 3.1.2.5 (b)) opens.

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	U ,	0

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103569	Bottom Button	
Label*	is Visible ves No	Is Enabled • Yes No
Business Rule For Visibility Business Rule	Business Rule For Disable Business Rule	Control Group Control Group
Is Validation Required		
+ Add Action		Save Cancel

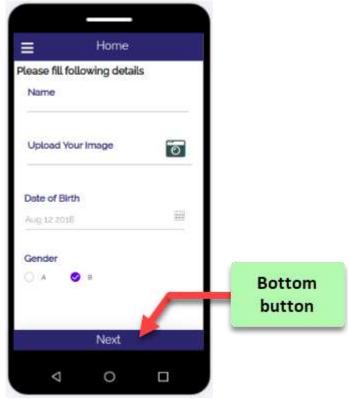
(Fig 3.1.2.5 (b))

3. On the **Bottom Button** dialog box (Fig 3.1.2.5 (b)), enter or select values in the respective boxes as follows:

Вох	Description
Label	In this box, enter the label name of the element.
Is Visible	Click Yes if you want to make the element visible after the respective form is displayed.
Is Enable	Click Yes if you want to make the element as an active element. The user can perform the function on the active element.

4. After you enter the values in the respective boxes, click **Save**, the bottom button is successfully configured.

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(Fig 3.1.2.5 (c))

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3.1.2.6 Component Migration

After you add new screens and controls or modify the existing screen(s) or controls by using the vDesigner application, you mandatorily need to migrate the added or updated components from the local environments to the cloud environment. If you do not migrate the component, the mobile app will not display newly added screens and controls after you open and then access the mobile app.

The feature of component migration pushes newly added and/or updated components to the cloud environment so that when you access the application, you can view and observe the newly added/updated screens and controls.

To migrate the component:

1. On the right top corner of the vDesigner dashboard, locate the user name icon (Fig 3.1.2.6 (a)).





2. Click the arrow right to the user name (Fig 3.1.2.6 (a)), a menu (Fig 3.1.2.6 (b)) expands.

✓ Design			E 🗈	_Lakshay v•
Add Screen	+		TEST_APP_	Application Json
Configure Landing Page	~		Component	
Elements		E Home Panave fill following details	🛔 Home	Component Migration
Standard	*	Name		Oesigner Guide
Action for Button		Upload Your Image		Getting Started
Detroit finder		Date of thits		🔛 Aadhsiar Info
		Augustater (M		0+ Logout



3. In the menu, click **Component Migration**, the **Component Migration** dashboard (Fig 3.1.2.6 (c)) opens.

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gate Co	mponents Components Status					
a la				Salary Multipressed		October (Personnel)
a Enh	er Corriponent Type 🔸			DRAFT	•	SAND_BOX
	Component Name	Component ID	Component Type	DRAFT Vention		SAND_BOX Version
	TEST_APP_VERREATION-JDON/NG3/04	4	APP_DEFN_FORM	1		0
	DASHBOARD CARD	1	CARD	5		0
	WELCOME	1	DASHECARD	1		0
	ENTITY_RELATIONSHIP	1	ENTITY_RELATIONSHIP	3		(P.)
	Horne	4	FORM	2		0
	HAMBURGER_DRAWER		HAMBURGER_DRAWER	1		G (
	ID_GENERATION		ID_SENERATION	3		0



- 4. In the **Component Migration** dashboard **(Fig 3.1.2.6 (c))**, the **Migrate Components** tab displays the list of all components.
- 5. To migrate all the newly added or modified components, locate the check box left to the **Component Name** column (Fig 3.1.2.6 (d)).

grate Co	mponents Components Status				
q Enhi		ere to migrate omponents.		DRAFT +	SAND_BOX
-	Component Name	Component ID	Component Type	DRAFT Vontion	SAND_BOX Version
a	TEST_APP_VERIFICATION-JDDN/063/04	1	APP, DEFN_FORM	1	0
	DASHBOARD CARD	1	CARD	4	0
	WELDOME	1	DASHBOARD	1	e
	ENTITY_RELATIONSHIP	1	ENTITY_RELATIONSHIP	1	
	Hume	4	FORM	2	0
	HAMBURGER_ORAWER	31	HAMBURGER_DRAWER	1	0
	ID_GENERATION	4	ID_SENERATION	1	0

(Fig 3.1.2.6 (d))

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6. Click the check box left to the **Component Name** column (Fig 3.1.2.6 (d)), all components that were added or modified are also selected (Fig 3.1.2.6 (e)).

				Source Environment	Delitedan Despera
Enli	ar Component Type	10 Records selected	I to migrate	DRAFT	· SAND_BOX
	Component Name	Component ID	Component Type	DRAFT Version	SAND, BOX Venilon
	TEST, APP, VERFICATION-3DON/0G3KH	1	APP_DEFN_FORM	\$	a
•	DASHBOARD CARD	3	CARD	1	0
•	WELCOME	1	DASHBOARD	1	9
•	ENTITY_RELATIONSHIP	3	ENTITY_RELATIONSHIP	Û.	0
	Home	1	FORM	2	a
•	HAMEURGER_DRAWER	ũ.	HAMEURGER_DRAWER	E.	ø
-	ID, GENERATION	3	ID, GENERATION	1	0

(Fig 3.1.2.6 (e))

- 7. In the **Remark** field, enter brief text (For example: First Commit) or description about component migration.
- 8. Click **Migrate Now (Fig 3.1.2.6 (e))**, the all selected components are successfully migrated.

Migrate Components Status		successfully migrated.	Config submitted successibility		
Q En	ter Component Type			Source Environment DRAFT	SAND_BOX
	Component Name	Component D	Component Type	CRAFT Version	SAND_BOX Version
10	TEST, APP, VERFICATION-3DON/xG3KH	à.	APP, DEFN, FORM	1	ii.
82	DASHBOARD CARD	3	CARD	1	1
10	WELCOME	1	DASHBOARD	±.	1
10	ENTITY_RELATIONSHIP	3	ENTITY_FELATIONSHP	1	1
10	Hame	3	FORM	2	4
15	HAMELIRGER, DRAWER	3	HAMBURGER_DRAWER	1	
	ID_GENERATION		ID_GENERATION	10	i.

(Fig 3.1.2.6 (f))

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3.2 Creating New Entity and Defining Relationship between Entities

The vDesigner application provides you the **Entity and Relationship** feature that contains two different sub-modules: *Entity* and *Relationship*. The *entity* module allows you to create entity. The *relationship* module allows to establish the relationship between two entities.

While establishing relationship between two entities, you make one entity as a parent entity and therefore can define another entity as child entity of the parent entity. That is how you can define multiple child entities under single parent entity.

The concept of creating an entity and defining relationship between two entities is broadly described as below:

3.2.1 Creating New Entity

The vDesigner application provides POD as a default entity/object. Apart from POD, you can create a new entity and use it later. You can create a new entity as a parent entity or a child entity. Under POD, you can also create a child entity. The main objective of creating an entity is to store the entire data of mobile app in the JSON format.

The concept of creating and using an entity can be better interpreted by observing the following screen capture: (Fig 3.2.1 (a))



(Fig 3.2.1 (a))

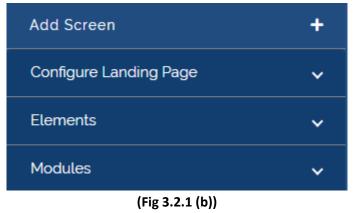
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In the screen capture: (Fig 3.2.1 (a)), the POD object stores the data of mobile app in the JSON format. In the JSON code, the POD_ID variable stores the unique ID that can be used to manage the data of mobile app in the JSON format.

You can create an entity as follows. To create an entity:

1. On the vDesigner dashboard, locate the left navigation pane (Fig 3.2.1 (b)).



- 2. In the left navigation pane, click Modules, the navigation pane (Fig 3.2.1 (c)) expands.

 Modules
 Plus Group

 Plus Group
 D Generator

 ID Generator
 Entity & Relationship

 Hamburger Drawer
 Sticky Menu

 (Fig 3.2.1 (c))
 (Fig 3.2.1 (c))
- Under Modules, click Entity & Relationship, the Entity & Relationship dialog box (Fig 3.2.1 (d)) opens.

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		Entity & R	elationship	
		Entity	Relationship	
Please Provide below details to create an entity Entity Namer Primary Attributer	POD			
PK © Group Name		/8		
Create Entity				
				Save Cancel

(Fig 3.2.1 (d))

4. In the Entity & Relationship dialog box, enter the values to create an entity as follows:

Вох	Description
Entity Name	In this box, enter the name of entity (For example: - DUMMY).
Primary Attribute	In this box, enter the value as follows: \$.POD.DUMMY[].ID
	In this hardcoded value, DUMMY[] is the array type object that stores the value of the ID variable. The POD entity is used to store the data in the JSON object.
PK ID Group Name	 In this box, you can perform function with any of two options: ▶ Option1:- (If you want to configure the ID generator for the new entity) In this box, enter the name of entity: Dummy and then define the ID generator rule as described in the heading section: Configuring ID Generator Rule.
	 Option2:- (If you do not want to configure the ID generator for the new entity) In this box, only enter the name of entity: Dummy that you are creating. In this case, a new ID will not be created.

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Entity & Relationship					
	Entity	Relationship			
Please Provide below details to create an entity Entity Name* DUMMY Primary Attribute* \$ POD DUMMY[]]D PK ID Group Name* DUMMY	POD				
		Save Cancel			



5. After you enter the value in the respective boxes (Fig 3.2.1 (e)), click Create Entity, the entity (Fig 3.2.1 (f)) is successfully created.

		Entity & R	elationship			
		Entity	Relationship			
Please Provide below details to create an entity Entity Name Primary Attribute* PK ID Group Name*	POD	0 🗊	DUMMY	0		
Create Entity						
					Save	Cancel
		/	2 4 (f)			

(Fig 3.2.1 (f))

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3.2.2 Defining Relationship between Two Entities

As described earlier in the main heading section: <u>Creating New Entity and Defining Relationship</u>, you can define the relationship between two entities. While defining the relationship, you can make one entity as a child entity of another entity. You can define the relationship between two entities as follows:

To define the relationship:

1. On the vDesigner dashboard, locate the left navigation pane (Fig 3.2.2 (a)).

Add Screen	+
Configure Landing Page	~
Elements	~
Modules	~

(Fig 3.2.2 (a))

2. In the left navigation pane, click **Modules**, the navigation pane (Fig 3.2.2 (b)) expands.

Modules	^
Plus Group	
ID Generator	
Entity & Relationship	
Hamburger Drawer	
Sticky Menu	

(Fig 3.2.2 (b))

3. Under Modules, click Entity & Relationship, the Entity & Relationship dialog box (Fig 3.2.1 (c)) opens.

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Entity & Relationship					
		Entity	Relationship		
Please Provide below details to create an entity Entity Name	POD		DUMMY	-	Newly created entity: Dummy.
Primary Attribute*		0		0 🔟	
PK ID Group Name*					
Create Entity					
					Save Cano



- 4. In the Entity & Relationship dialog box, click the Relationship tab (Fig 3.2.2 (c)), the Entity & Relationship dialog box displays the following fields (boxes) (Fig 3.2.2 (d)):
 - > Parent Entity
 - > Child Entity
 - > Relation
 - Associated Attr Array

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		Entity 8	Relationship	
		Enti	y Relationship	
Parent Entity *	*			+ Add Child Entity
Child Entity *		Relation*	Associated Attr Array"	8

(Fig 3.2.2 (d))

5. In these fields (Fig 3.2.2 (d)), enter/select values as follows:

Box/List	Description
Parent Entity	Click this list, it displays the currently existing entities. In the list, select the entity
	(For example: - POD) that you want to make as a parent entity.
Child Entity	Click this list, it also displays the currently existing entities. In the list, select the
	entity (For example: - DUMMY) that you want to make as a child entity.
Relation	In this box, enter the following value:
	1*n
	This value specifies the one-to-many relationship between parent and the child
	entity.
Associated Attr	In this box, enter the hardcoded value as follows:
Array	\$.POD.DUMMY[]
	This hardcoded expression specifies that the DUMMY[] array type JSON object has
	been defined as a child object under POD entity.

6. After you enter/select the value in the respective box/list, click **Save (Fig 3.2.2 (d))**, the parent-child relationship between two entities is successfully defined.

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3.2.3 Configuring ID Generator

This feature allows you to define the ID generator rule for newly created entity. After you configure ID generator rule, it automatically generates a unique ID for the respective entity when **Load New Object** task executes as a result of specific action.

To configure ID generator:

1. On the vDesigner dashboard, locate the left navigation pane (Fig 3.2.3 (a)).



(Fig 3.2.3 (a))

2. In the left navigation pane, click **Modules**, the navigation pane (Fig 3.2.3 (b)) expands.



(Fig 3.2.3 (b))

3. Under Modules, click ID Generator (Fig 3.2.3 (b)), the ID Generator dialog box (Fig 3.2.3 (c)) opens.

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DIRUM NAME POD	A+ILDGIN_IDI+[DATETIME]	
LAST USED SET	9499/2017-2019/5228 30	
Accord THE LEFT_PADDING	RACCONS WITH	
LEFTOPADLING	1	

(Fig 3.2.3 (c))

- 4. In the **ID Generator** dialog box, click **Add Row (Fig 3.2.3 (c))**, the **ID Generator** dialog box displays the group of the following fields:
- ➢ GROUP NAME
- LAST USED SEQ
- > PADDING TYPE
- > GEN RULE

+ Add Row

- > MIN RETURN SIZE
- > PADDING WITH

5. In these fields (boxes), enter values as follows:

Box/Field	Description
Group Name	In this enter the name of entity (For example: - DUMMY) for which you want to
	configure the ID generator rule.
Last Used Seq	In this box, enter the numeric value: 1 .
Padding Type	In this box, enter: LEFT_PADDING. The value: LEFT_PADDING specifies that the ID
	generator rule will start generating the unique ID from the left side character.
Gen Rule	In this box, enter/write the expression of ID generator rule that you want to apply
	to create unique ID.
	#Sample ID generator rule:
	D+[LOGIN_ID]+[DATETIME]
	 When this ID generator rule executes to create unique ID, the unique ID contains: The character: D, which is prefixed to the entire value of the unique ID. LOGIN_ID, which denotes the login Id/login name of the mobile app user. DATETIME, which denotes the date and time at which the unique ID is generated.
Min Return Size	In this box, enter the numeric value: 30 .

Save

Cancel

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Padding With

In this box, enter the numeric value: **1**.

PADDING TYPE	PADDING WITH"	
LEFT_PADDING	1	
GROUP NAME" DUMMY	GEN RULE D+[LOGIN_ID]+[DATETIME]	
LAST USED SEQ.	MIN RETURN SIZE	
1	30	
PADDING TYPE"	PADDING WITH"	
LEFT_PADDING	1	

(Fig 3.2.3 (d))

6. After you enter values in the respective boxes, click **Save (Fig 3.2.3 (d))**, the ID generator rule is successfully configured.

3.3 Integrating Different API(s) with vDesigner

In the vDesigner application, you can integrate different API to bind an action to different elements and controls. You can integrate two types of API(s), which are given as below:

- > Sync API
- > Other API(s)

The sync API is specially used to insert the mobile app data into two tables: *tb_cop_buss_obj_txn* and *tb_image_data_obj*. The *tb_cop_buss_obj_txn* table stores the text and numeric data, while the *tb_image_data_obj* table stores image related data.

API(s) that falls in the Other API(s) category captures the response from third party server, apart from manipulating data on the database level such as fetching data from the database table. The database API(s) are mainly used to retrieve the old data from the database tables. In the database API(s), internally implemented stored procedure executes and then calls corresponding service to perform the function.

In the vDesigner application, specific API is integrated based on the functional requirement of the mobile app. You can integrate the API as follows:

3.3.1 Integrating Other API(s)

When you integrate an API in the vDesigner application, you map two types of parameters: *Request Parameters* and *Response Parameters*. In the vDesigner application, you map the request parameters on the basis of template body parameters of an API that you define in the vConnect portal.

On the other hand, you configure response parameters on the basis of keys and attributes that an API receives in the response of third party API.

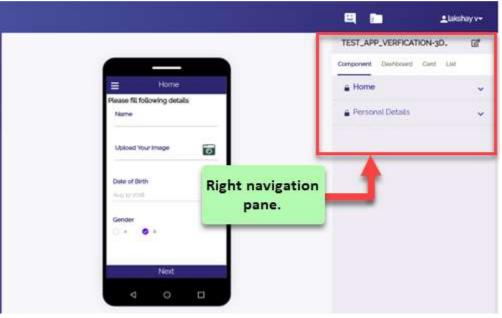
You can perform the mapping of the request parameters and the response parameters as follows:

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3.3.1.1 Mapping Request Parameters

To map request parameters:

- 1. In the vDesigner application, locate the control/element (For example: Submit (Bottom button)) where you want to integrate the API.
- 2. To locate the control, locate the right navigation pane (Fig 3.3.1.1 (a)).



(Fig 3.3.1.1 (a))

3. In the right navigation pane, click the tab (For example: - Component) to locate the form/control (Fig **3.3.1.1 (b))** where you want to integrate the API.

		TEST_APP_ASLI_RI-620	25DV3_
Professional \	/erification	Component Dashboard Component Dashboard	Caed Liet
Please fill following de		Upload Your Image	
NIK	Suppose, you want to integrate an API with the function of Submit	Submit	64 10 0
Name	bottom button.	ТА	
Date of Birth		Name verified	
And in hom		Birthdate verified	
Place Of Birth		Birthplace verified	
Address		Address verified	
Subm	it)	Photo verified	
⊲ 0	•	Phone Verification	

(Fig 3.3.1.1 (b))

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After you locate the element/control (For example: - Submit) (Fig 3.3.1.1 (b)), double-click the name of element in the right pane, element's dialog box (For example: - Bottom Button dialog box) (Fig 3.3.1.1 (c)) opens.

311	Bottom Button	
Label'	Is Visible	is Enabled
Submit	Ves O No	🖲 Yes 🔘 No
Business Rule For Visibility	Business Rule For Disable	Control Group
Business Rule	Business Rute	Control Group
Is Validation Required		
Is Validation Required Yes ONO		

(Fig 3.3.1.1 (c))

5. In the Bottom Button dialog box (Fig 3.3.1.1 (c)), click Edit Action, the Action dialog box (Fig 3.3.1.1 (d)) opens.

Action	
Added Action	
ON CLICK	0
	Added Action

(Fig 3.3.1.1 (d))

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- 6. In the Action dialog box, locate the Added Action area (Fig 3.3.1.1 (d)) in the right pane.
- 7. Under Added Action, click ON CLICK, the Task dialog box (Fig 3.3.1.1 (e)) opens.

Task II): 65313	Task	
search by task	Q	Added Task	Expand All 💙
Api Integration Business Rule Validation		11 Save	© ~
Call Print Clear Control Data		14 API Integration	© ~
Clear Navigation History Clear Temp Variable		1 Control Visibility	© ~
Control Disable		11 Refresh	<u> </u>
Control Editable Control Invisibility		1 Control Disable	<u>n</u> ~
Control Visibility Copy Value		11 Control Visibility	û ~
			Save Cancel

(Fig 3.3.1.1 (e))

Note:-

In the screen capture (Fig 3.3.1.1 (e)), <u>if you view the list of added tasks in the right pane</u>, you will find that the **Save** task has been configured on the priority basis. The reason of configuring the **Save** task is described as below:

On specific form, If you are taking input from the mobile app user and you want that the form continues to hold the input data after the user navigates to another page, you need to apply the **Save** task on the **Next** button or **Submit** button of that form where you have asked the user to enter the data.

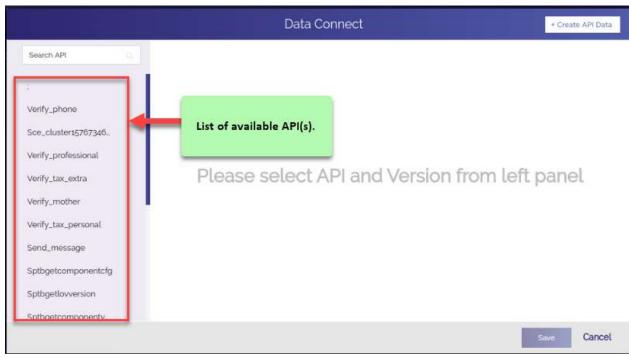
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- 8. In the left pane (Fig 3.3.1.1 (e)), locate the Search by task box.
- 9. In the Search by task box, enter API Integration.
- 10. After you locate the **Api Integration** task, click it, the **Api Integration** dialog box (Fig 3.3.1.1 (f)) opens.

Api Name Parameter's Mapping	Condition For Api Call Business Rule
Stop On Error	Stop On Condition Failure
€ Yes	Ø yes ● No
Message On Fail	Message On Sucess
Message Master	Message Master
Message Before Process	Message While Process
Message Master	Message Master

11. In the Api Integration dialog box (Fig 3.3.1.1 (f)), click Parameter's Mapping, the Data Connect dialog box (Fig 3.3.1.1 (g)) opens.

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(Fig 3.3.1.1 (g))

12. In the **Data Connect** dialog box, the left navigation pane displays the list of available API(s).

Note:-

The left navigation pane displays the list of API(s) that are deployed on the vConnect platform.

13. In the **Search API** box (Fig 3.3.1.1 (g)), enter the name of API (For example: - Verify_professional) that you want to integrate.

Note:-

On searching specific API, if you find multiple versions of the API, select that version of the API that you want to integrate.

- 14. After you search the API (For example: Verify_professional), click to select that API.
- 15. After you select the Verify_professional API, click the version number (For example: v1) (Fig 3.3.1.1 (h)) of the API, the right pane displays the Request Parameters and Response Parameters tabs.

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			Data Conr	1ect		+ Create API Dat
ver	9	Versions	Request	Parameters*	Respons	e Parameters
Verify_phone		vi				
Verify_professional	>		Name*	Source Type *	▼ Value*	Û
Verify_tax_extra						
Verify_mother						
Verify_tax_personal						
Sptbgetlovversion						
Sptbgetcomponentver.						
Sptbgetconfigversion						
			+ Add Row			
				Please	fill data in request form	Save Cance

(Fig 3.3.1.1 (h))

- 16. Click the Request Parameters tab (If not selected) (Fig 3.3.1.1 (h)).
- 17. The Request Parameters tab (Fig 3.3.1.1 (h)) displays the following fields:
 - > Name
 - > Source Type
 - > Value
- 18. In these fields, enter/select values as follows:

Fields	Description
Name	In this field, enter the name of parameter (For example: - nik or name).
	Note:- In the Name field, the name of parameter must match with the name of parameter that you define in the Value field in the vConnect portal. On the vConnect portal, you enter the name of parameter in the Value field (Fig 3.3.1.1 (i)) when you define the template body parameter while configuring an API.
Source Type	Click this list to select any of the following values: Special Value Fixed JSON Table Control

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	Selecting any of these values as source type determines the type of data		
	source or format from where the parameter will pick the data or in which insert the data.		
N/-1 -			
Value	In this box, enter the value as follows. In the Source Type list, if:		
	You select: Special Value		
	• In the Value box, enter hardcoded value: [Random_number]. In case		
	of special value, the API will fetch the random number.		
	You select: Fixed		
	 In the Value box, enter any constant value that the respective 		
	parameter will store.		
	You select: JSON		
	 In the Value box, enter the json path (For example: - \$.POD.nik) (Fig 		
	3.3.1.1 (k)) . The API will pick the data from the JSON path.		
	You select: Table		
	 Click the Table Name list and then select the table (For example: - 		
	Image Table) from where the API will fetch the data.		
	 After you select the table, the Column Name list and the Where box 		
	appear.		
	• Click the Column Name list (Fig 3.3.1.1 (j)) and then select the column		
	(For example:- Image_stream) from where API will fetch the data.		
	• In the Where box (Fig 3.3.1.1 (j)), enter/write the where clause of the		
	SQL query if you want that the API fetch the data from the selected		
	column with special conditions.		
	You select: Control		
	• In the Value/Control box, enter the control ID (For example: - 79229)		
	of the control/element (For example: - Text box/Text field) from where		
	API will pick the data and store in the respective parameter.		

C i developer vaharacloud.com	V/Connect/W/micro-services/update-web-ap/VERDY_PROFESSION		🎕 🖈 Incognito \Theta (
<i>,</i>			Mare 🗸 🛛 sales 🗸
thousi Senior Mesqueere API Man	geneen Market Place Other Ready to Publish		And Name Ally, 8
* Harter nik Uze Dolault faller	* Source of Velice REQUEST, BODY Mandutury Natio	* Varue 5 paraset (Of rule	On this page of the vConnect portal, request parameters of Verify_professional API have been defined. In the Value field, look at the keys of JSON path: nik, nome, and others. The
* Norm mane Une Default	* Soverin of Volue RECUEST, BCOY Mandatary	* Volum Stansmerfölt norme	naming convention of these keys should be used as the name of parameters in the <u>Name</u> field when you perform parameters
false	future		mapping in vDesigner.

(Fig 3.3.1.1 (i)) (The page of vConnect portal where request parameters are defined)

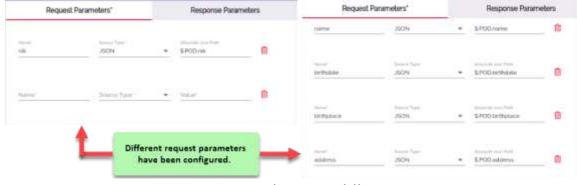
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Search API		Versions	Request Par	ameters"		Response Paran	neter	s
Getduplicateall Getduplicateimagede.		vi	transactionId	Source Type ' SPECIAL_VALUE	×		•	Û
Duplicaterecords	,		Alarea" temptate	Ginana Type * TABLE	*	Table Name' Image Table	*	
Test_api Getresolved			Column Nerve IMAGE_STREAM	Where OBJECT_PRI_KEY_1-	GETV	ALUE(\$.POD.POD_ID)		
Updateduplicatereco. Getcapturedimage Insertduplicaterecords			trans	screen displays h actionid and tem SPECIAL_VALUE a	plat	with two source	e ty	
Getunresolved Spmbgetaofimagedat.			+ Add Row	SPECIAL_VALUE	anu i	Abte, respective	ary.	

(Fig 3.3.1.1 (j))

- 19. After you map the first parameter by following steps as described in the last table, map other parameters.
- 20. To map other parameters, click **Add Row (Fig 3.3.1.1 (h))**, another row of the following fields appears.
 - > Name
 - > Source Type
 - > Value
- 21. In these fields, enter values to map next parameter as described in the last table.



(Fig 3.3.1.1 (k))

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- 22. After you map all the request parameters, click **Save** (**Fig 3.3.1.1 (j)**), the **Data Connect** dialog box closes.
- 23. In the API Integration dialog box, click Save, the API Integration dialog box closes.
- 24. In the Task dialog box, click Save, the Task dialog box closes.
- 25. In the Action dialog box, click Save, the Action dialog box closes.
- 26. In the **Bottom Button** dialog box, click **Save**, the **Bottom Button** dialog box closes and all request parameters are successfully mapped.

3.3.1.2 Mapping Response Parameters

To map response parameters:

1. Perform steps from the step1 to step11 to access the **Data Connect** dialog box (Fig 3.3.1.2 (a)) where you map the response parameters.

Search API Search API Verify_phone Sce_cluster15767346. Verify_professional Verify_tax_extra Verify_mother Verify_tax_personal Send_message Sptbgetcomponentcfg SptbgetLowersion		Data Connect	+ Create API Data
Sptbgetcomponentv.	: Verify_phone Sce_cluster15767346. Verify_professional Verify_tax_extra Verify_mother Verify_tax_personal Send_message Sptbgetcomponentcfg	Please select API and Version fro	m left panel

(Fig 3.3.1.2 (a))

- 2. In the Data Connect dialog box, locate the left navigation pane (Fig 3.3.2.1 (a)).
- 3. In the **Search API** box (Fig 3.3.1.2 (a)), enter the name of API, the left pane displays the name of API (For example: Verify_professional).
- 4. After you search the API, click it, the Data Connect dialog box displays the name of API (Fig 3.3.1.2 (b)) along with its available version.

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		Data Connect	+ Create API Data
ver Q,	Versions		
Verify_phone Verify_professional Verify_tax_extra Verify_mother Verify_tax_personal Sptbgettovversion Sptbgetcomponentver. Sptbgetconfigversion	VI	Please select API and pane	
			Save Cancel

(Fig 3.3.1.2 (b))

5. Under Versions, click the version number (For example: - v1) of API, the Data Connect dialog box displays the Request Parameters and Response Parameters tabs (Fig 3.3.1.2 (c)).

Search API Q	Versions	Request	Parameters*		Response Parar	neters
	vi	name	NOSL	-	\$POD.name	۵
Verify_phone Sce_cluster15767346_		hane' birthdate	Source 7igre JSON	•	Abadobe Juon Fath \$POD.birthdate	Û
Verify_professional > Verify_tax_extra Verify_mother		Native' birthplace	Source Type 1 JSON	•	Atmiliate Son Path \$POD birthplace	Ô
Verify_tax_personal Send_message		Narwa" address	Ecustor Typer 1 JSON	*	Almodule Jaco Path S.POD.address	Ô
Sptbgetcomponentcfg Sptbgetlovversion Sptbgetcomponentv		+ Add Row				

(Fig 3.3.1.2 (c))

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- 6. Click the **Response Parameters** tab, the **Data Connect** dialog box displays the group of the following fields (Fig 3.3.1.2 (d)):
 - > API Name
 - > Name
 - > Absolute JSON Path
 - > Control Id

		Data Connect	+ Create API Dat
Search API	Versions	Request Parameters*	Response Parameters
; Verify_phone Sce_cluster15767346. Verify_professional Verify_tax_extra	vi	API Norme VERIFY_PROFESSIONAL Absolute door Path	*****
Verify_mother Verify_tax_personal Send_message Sptbgetcomponentcfg			
Sptbgetlovversion Sptbgetcomponentv		Row	+ Add

(Fig 3.3.1.2 (d))

7. In these parameters, enter values as follows:

Field	Description
API Name	This list displays the name of API (For example: - Verify_professional) that you have
	selected to map the response parameters.
Name	In this box, enter the name of key/attribute (For example: - ID, name, data, and
	others) that the API receives in the response data that is sent by the third party API.
Absolute JSON	In this box, enter the json path (For example: - \$.POD.Professionaldata) where API
Path	will store the data after it receives the response from third party API.
Control Id	In this box, enter the ID (For example:- 79299) of the control/element (For
	example:- Text field, label, etc) in which API will display the response data on the
	mobile app.

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- 8. After you enter values in the respective fields, map other response parameters.
- 9. To map other parameters, click Row, another row of API Name, Name, and other fields appears.
- 10. In these fields, enter values to map next response parameter as described in the last table.
- 11. After you map all response parameters, click **Save (Fig 3.3.1.2 (d))**, the **Data Connect** dialog box closes.
- 12. In the API Integration dialog box, click Save, the API Integration dialog box closes.
- 13. In the **Task** dialog box, click **Save**, the **Task** dialog box closes.
- 14. In the Action dialog box, click Save, the Action dialog box closes.
- 15. In the **Bottom Button** dialog box, click **Save**, the **Bottom Button** dialog box closes and all response parameters are successfully mapped.

3.3.1.3 Configuring Business Rule for API Call

The vDesigner application allows you configure the business rule for and on different entities that you add to design a mobile app. These entities can include a control/element, form, card, list, and others. You can apply a business rule for several purposes such as disabling or enabling a control, satisfying a condition, displaying a specific set of data, and others.

This section describes how to apply a business rule to stop API call.

To apply a business rule:

1. On the API Integration dialog box, locate Condition For Api Call (Fig 3.3.1.3 (a)).

Api Name	Condition For Api Call		
Parameter's Mapping		Business Rule	
Stop On Error Ves No	Stop On Condition Failure		
Message On Fail	Message On Sucess		
Message Master	м	lessage Master	
Message Before Process	Message While Process	1.52.55 Automatica (#***)	-
Massage Master	м	essage Master	
		Save	Car
	(Fig 3.3.1.3 (a))		

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Under Condition For Api Call, click Business Rule (Fig 3.3.1.3 (a)), the Rule ID dialog box (Fig 3.3.1.3 (b)) opens.

Rule ID :105140		
Erase All	Verify JSON	
	Submit BRE Cano	æl

(Fig 3.3.1.3 (b))

3. In the upper box, enter the business rule (For example: - \$.POD.name!=)

Rule ID :105140		
\$.POD.name!+		
Erase All		Verity JSON
Erase Au		
		Submit BRE Cancel

(Fig 3.3.1.3 (c))

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4. After you enter the business rule, click **Submit BRE**, the business rule is successfully configured.

The written business rule: **\$.POD.name!=** specifies that if the user does not enter any value in the **Name** field and then performs the function to submit the data, the business rule will first check the value in the **Name** field. If the business rule:

- Finds the value in the **Name** field, the corresponding API will be called.
- > Does not find any value in the **Name** field, the corresponding API will not be called.

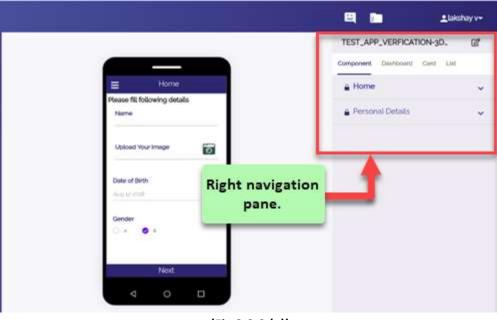
3.3.2 Integrating Sync API(s)

In the vDesigner application, the sync API (s) are integrated to insert the mobile app data into database table. As described earlier, the sync API inserts the data into two tables: **tb_cop_buss_obj_txn** and **tb_image_data_obj**. It inserts numeric and text based data into the **tb_cop_buss_obj_txn** table.

To integrate a sync API in the vDesigner application, the API should be deployed on the vConnect platform. The following set of instructions describes how to **SPMBINSERTAOFOBJDATA** sync API, which is already deployed on the vConnect platform.

To integrate a sync API:

1. In the vDesigner application, locate the control/element (For example: - Submit (Bottom button)) where you want to integrate the API.



2. To locate the control, locate the right navigation pane (Fig 3.3.2 (a)).

(Fig 3.3.2 (a))

In the right navigation pane, click the tab (For example: - Component) to locate the form/control (Fig 3.3.2 (b)) where you want to integrate the API.

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Please fill following details Upload Your Image NiK Suppose, you want to integrate an API with the function of Submit Submit Name Submit TA Date of Birth Birthdate verified Place Of Birth Birthplace verified Address Address verified	Please fill following details NiK Suppose, you want to integrate an API with the function of Submit bottom button. Date of Birth Augus 2 SSU Place Of Birth Place Of Birth Birthplace verified	Professional Ve	rification	Address	rd List
Integrate an API with the function of Submit Submit Name TA Date of Birth TA Place of Birth Birthdate verified Place of Birth Birthplace verified Address Address verified	Integrate an API with the function of Submit Submit Date of Birth TA Date of Birth Birthdate verified Place Of Birth Birthdate verified Address Address verified Submit Photo verified	and the state of the second second second			
Date of Birth Name verified May 12 post Birthdate verified Place Of Birth Birthplace verified Address Address verified	Date of Birth Name verified Mail D point Birthdate verified Place Of Birth Birthdate verified Address Birthdate verified Address Address verified Submit Photo verified	Name	integrate an API with the function of Submit		c 🕫 🛛
Place Of Birth Birthplace verified Address Address verified	Place Of Bith Birthplace verified Address Address verified Sübmit Photo verified	Date of Birth	-m		
	Sübmit Photo verified	Place Of Birth		Birthplace verified	
	Photo verified			Address verified	

(Fig 3.3.2 (b))

After you locate the element/control (For example: - Submit) (Fig 3.3.1.1 (b)), double-click the name of element in the right pane, element's dialog box (For example: - Bottom Button dialog box) (Fig 3.3.2 (c)) opens.

5311	Bottom Button	
Label"	is Visible	is Enabled
Submit	I Ves O No	Yes IN No
Business Rule For Visibility	Business Rule For Disable	Control Group
Business Rule	Business Rute	Control Group
A Polit Autom		
+ Edit Action		Save Can

5. In the **Bottom Button** dialog box (Fig 3.3.2 (c)), click Edit Action, the Action dialog box (Fig 3.3.2 (d)) opens.

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	Action	
Action List	Added Action	
On Click	ON CLICK	
		Save Cancel

(Fig 3.3.2 (d))

- 6. In the right pane (Fig 3.3.2 (d)), locate the Added Action area.
- 7. Under Added Action, click ON CLICK, the Task dialog box opens.

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- 8. In the Action dialog box, locate the Added Action area (Fig 3.3.2 (d)) in the right pane.
- 9. Under Added Action, click ON CLICK, the Task dialog box (Fig 3.3.2 (e)) opens.

Task ID	79616	Task	
search by task	٩	Added Task	Expand AlL *
Api Integration Business Rule Validation		11 Save	*
Call Print		11 Form Id	@ ~
Clear Control Data Clear Navigation History			
Clear Temp Variable			
Control Editable			
Control Invisibility Control Visibility			
Copy Value			Second Second
			Save Cancel

(Fig 3.3.2 (e)

- 10. In the **Task** dialog box, locate the left navigation pane.
- 11. In the Search by task box (Fig 3.3.2 (e)), enter or type sync, the left navigation pane displays the results (Fig 3.3.2 (f)).

Task ID: 9935	; Task	
sync	Q Added Task	Expand All 🎽
Record Sync Sync Group	11 Save	• ~
Sync Table	1 Sync Table	· ~
Update Sync Status View Sync Details	1 Sync Table	@ ~
	(Eig 2 2 2 (f))	

(Fig 3.3.2 (f))

12. In the list of results, click Sync Table (Fig 3.3.2 (f)), the Sync Table dialog box (Fig 3.3.2 (g)) opens.

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	Sync Table	
Service/Table Name	Sync Sequential*	
Validation Group Id	Stop On Condition Failure	
Business Rule	Ves No	

(Fig 3.3.2 (g))

- 13. In the **Service/Table Name** box (Fig 3.3.2 (g)), enter the name of sync API (For example: SPMBINSERTAOFOBJDATA) that you want to integrate.
- 14. After you enter the name of sync API, click **Save (Fig 3.3.2 (h))**, the sync API is successfully integrated with the vDesigner application.

	Sync Table
Service/Table Name SPMBINSERTAOFOBJDATA	Sync Sequential*
Validation Group Id Business Rule	Stop On Condition Failure
	Save Cancel

(Fig 3.3.2 (h))

Similarly, you can integrate other sync API(s).

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3.4 Configuring a Dashboard

In a mobile app, dashboard is created and configure as landing page. When a user accesses the mobile app, app's dashboard is displayed. Mobile app's dashboard can have several components such as online content, URL, image, list, chart, and others. You can display these components as static items or in carousel format that a mobile app user can slide.

You can design and develop a mobile app dashboard to make it interactive and useful. The vDesigner application provides you a dashboard by default (dashboard with title: Welcome) that you can customize and use it as a dashboard in currently under-development mobile app, or you can create a new dashboard. The following set of instructions/steps describes how to configure a dashboard with image. Apart from image, you can display online data, web URL, charts, and others on the dashboard.

To create/configure a dashboard:

1. On vDesigner application's dashboard, locate the left navigation pane.



(Fig 3.4 (a))

2. In the left navigation pane, click **Configure Landing Page**, the navigation pane expands.



(Fig 3.4 (b))

3. Under **Configuring Landing Page (Fig 3.4 (b))**, click **Dashboard**, the **Dashboard Definition Form** dialog box opens.

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Dashboard Name"	Dashboard Type'		View Table Name	
	VIEW	٠		
Api Name	Image Path		image Urt	
Web Uni	Chart Data		Chart Report Id	
femplate Data	Template Id*		Sort Sequence"	
lefresh Frequency	Time Of Day'		Part Of Week*	
Refresh Frequency	Time Of Day*			

(Fig 3.4 (c))

4. In the **Dashboard Definition Form** dialog box, enter values in the respective boxes/lists as follows:

Box/List	Description			
Dashboard Name	In this box, enter the name (For example: - TECH5- Mobile App POC) of the			
	dashboard.			
Dashboard Type	Click this list to select any of the following options to display on the dashboard			
	> ONLINE			
	> URL			
	> CHART			
	> IMAGE			
	> VIEW			
	Suppose, you select Image in the Dashboard Type list to display an image on			
	the dashboard.			
View Table Name	In this box, enter the name of the database view if you have selected VIEW in			
	the Dashboard Type list to display the data from the database view.			
Image URL	In this box, you enter the image of URL if you have selected IMAGE in the			
	Dashboard Type list to display the image on the dashboard.			
	In this box, enter the URL of image (For example: - https://jar-vahana.s3.ap-			
	south-1.amazonaws.com/images/Tech5-web.jpg).			
	Note:-			

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	While configuring a dashboard with IMAGE dashboard type, the images are uploaded from Vahana server. So, before entering the URL of an image, you should know that where the image is stored on the Vahana platform.
Template Id	If you choose IMAGE in the Dashboard Type list, enter 2 in the Template Id box. In the Template Id box, the value: 2 denotes that you are uploading an image on the dashboard.
	In the Dashboard Type list, if you choose VIEW , enter 4 in the Template ID box. For every dashboard type such as image, online, view, and others, you will enter unique value in the Template Id box.
Sort Sequence	In this box, enter the sequence number (For example: - 1 or 2, or 3) of the dashboard type if you want to display more than one dashboard type on the dashboard.
Refresh Frequency	 Click this list to select the any of the following options: Daily Weekly Every Login Login Page Load These options specify when the dashboard will be refreshed. For example: - In the Refresh Frequency box, if you select Daily, it means that the dashboard is refreshed on the daily basis.
Plus Group Name	Click this box to select the plus group that you want to display on the dashboard.
Drawer Name	Click this box to select the hamburger drawer that you want to display on the dashboard.

5. After you enter or select values in the respective boxes as described in the last table, click **Save (Fig 3.4 (c))**, the dashboard is configured.

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3.4.1 Configuring a Card

In a mobile dashboard, you can configure a card. A dashboard card can consists of header, sub headings, list, textual content, media, icon, button, and other action items/features. The layout of the card is determined on the basis of content, image, or any other data that you want to show on the card.

To configure a card:

1. On vDesigner application's dashboard, locate the left navigation pane.



(Fig 3.4.1 (a))

2. In the left navigation pane, click **Configure Landing Page**, the navigation pane expands.

Configure Landing Page	^
Dashboard	
Card	
List	

(Fig 3.4.1 (b))

3. Under Configuring Landing Page (Fig 3.4.1 (b)), click Card, the Card Definition Form dialog box (Fig 3.4.1 (c)) opens.

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Header*		Detail Text*		Sort Sequence*	
Time Of Day*		Location Filter*		Part Of Week*	
ALL	•	ALL	۲	ALL	•
Card Group Name*		Card Name*		Part Of Month*	3
Card Template Id*		Card View Table Name		Search Criteria	
Action Type		List View ID		Form Id.	

(Fig 3.4.1 (c))

4. In the Card Definition Form dialog box, enter or select values in the respective boxes as follows:

Box/List	Description
Header	In this box, enter the title or header name (For example: - Enroll) of the card.
Detail Text	In this box, enter the subheading or brief text (For example: - To start a new
	Identification process) about card or card's usage. The value that is entered in
	this box appears under the title or header of the card.
Sort Sequence	In this box, enter the sequence number (For example: - 1 or 2, or 3) of the card
	if you want to display more than one card on the dashboard. Based on the
	number that is entered in this box, the card is displayed on the dashboard.
Card Group Name	In this box, enter the value: Dashboard. Entering this value specifies that the
	card will be displayed on the dashboard.
Card Name	In this box, enter the name of card (For example: - Dashboard Card).
Card Template ID	In this box, enter a predefined template ID (For example: - 1, 2, or 3). This ID is
	pre-defined at the application level. By using the card template ID, the mobile
	app displays the card on the screen.
Card View Table	In this box, enter the name of database view (For example: - vw_data_count) if
Name	you want to display the data from the database view.
Action Type	Click this list to select any of the following values:
	Perform User Defined Action
	Select this option if you want to configure the action that the user can perform
	on the card.
	> Open List

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Select this option if you want to display the data of a list on the card. In this
case, the data is fetched from the database view.
In this box, enter the ID of list (For example: - 85017) (Fig 3.4.1 (d)) whose data
you want to display on the card. In this box, enter the list ID if you have selected
Open List in the Action Type list. Otherwise, leave this box blank.
Note:-
To know more about list and to co-relate the screen capture: (Fig 3.4.1 (d)), visit
the heading section: Configuring a List.
You can use this feature to configure an action. You can configure the action if
you have selected Perform User Defined action in the Action Type list. To
configure an action, you can apply several tasks (Fig 3.4.1 (e)). The selection of
the task to apply it depends on the function behavior that you want to
implement on the card. The following set of steps describes to configure a form
ID of specific form/screen.
To configure an action:
1. On the Card Definition Form dialog box, click Create Action, the Task dialog
box (Fig 3.4.1 (e)) opens.
2. In the Search by task box, enter Form ID, the Form id task is displayed.
3. Click the Form id task, the Form Id dialog box opens.
4. In the Form Id dialog box, locate the Navigation Form Id box.
5. Click in the Navigation Form id box, a list (Fig 3.4.1 (f)) of existing forms is
displayed.
6. Locate the form by its form ID (For example:- 83882) and then select it.
7. After you select the form, click Save , the form id is configured.

	those data you want to lisplay on the card. trigh trigh trigh trigh Account Account	Account
Header* Total Records	Object Type* OBJECT_TYPE	Api Name
Vw Name vw_data	Lv Object Array Path	Primary Key 1 PRIMARY_KEY_1
Primary Key 2 PRIMARY_KEY_2	Primary Key 3 PRIMARY_KEY_3	Lv Plus Group
Drawer Name	Filter Rusiness Irt	Allow Conv*

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Та	sk ID: 106843	Task	
Form ID	٩		
Form Id			

(Fig 3.4.1 (e))

vigation Form Id*	Validation Group Id Business Rute
1. Home	Message On Sucess
71014 : Contact Details Submission Form	Message Master
83882 : Search Employee	Message While Process
90010 : News and Events	Message Master
92353 : Terms and Conditions	Next Form Type
	Full Form

(Fig 3.4.1 (f))

While configuring a card in vDesigner, if you choose **Open List** action, the data is fetched from the database view and therefore is dynamically displayed on the card. If you choose **Perform User defined action**, you can configure an action that allows the user to perform an action on the card.

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3.4.2 Configuring a List

In the vDesigner application, you can configure a list to display specific set of data in the list format. To display the data in different layout, the List feature incorporates multiple in-built card templates. When you configure a list, you need to select a template to determine a layout, in which you want to display the data on the card. You can display the data in the list by using <u>database view</u> or JSON type <u>array</u> <u>object</u>.

To configure a list:

1. On vDesigner application's dashboard, locate the left navigation pane.



(Fig 3.4.2 (a))

2. In the left navigation pane, click **Configure Landing Page**, the navigation pane expands.

Configure Landing Page	*
Dashboard	
Card	
List	

(Fig 3.4.2 (b))

3. Under **Configuring Landing Page (Fig 3.4.2 (b))**, click **List**, the **List View** dialog box **(Fig 3.4.2 (c))** opens.

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	ACFO267554321 Subhakshimi Chardra L. 4H Mathiatini 🖉 203408 B. Relation 🖉 1130 AM	Prafull Singh Account Account	Account O	A0F0987454231 Subblacksyn: Chardes * montecen: 2 subskie * montece
Header*	Object 1	lype*	Api Name	
Vw Name	Lv Obje	ct Array Path	Primary Key 1	
Primary Key 2	Primary	Кеу з	Lv Plus Group	

(Fig 3.4.2 (c))

4. In the List View dialog box, enter values as follows:

Вох	Description
Header	In this box, enter the name/title (For example: - Duplicate List) of the list.
Object Type	In this box, you can enter the name of object as follows:
	<u>Case1</u> :- (If you are using array object to fetch the data) In this box, enter the name object (For example: - DUPLICATE) where the data is stored after it is fetched from the database. After you declare the name of object (For example: - DUPLICATE) in the Object Type box, enter the path of array (For example: - \$.POD.DUPLICATE[*]) in the LV Array Object Path box.
	Note:- In the Object Type box, you enter the name of object (Fig 3.4.2 (d)) that you create in the Entity & Relationship module. You can use this object if you are using an API to access the data source and then fetch the data to display it in the list.
	<u>Case2</u> :- (If you are using database view to fetch the data) In this box, enter the name of database object (For example: - OBJECT_TYPE). After the data is fetched, this object holds the entire data in database view format.

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Api Name	In this box, enter the name of API if you using the API to fetch the data from the respective data source. After API fetches the data, it stores the data in the DUPLICATE object. Note:- In the Api Name box, you will enter the name of API if you choose array object to fetch the data. If you choose database view to fetch the data, leave the API Name box blank.
LV Object Array Path	In this box, enter the path or array (For example: - \$.POD.DUPLICATE[*]) where the data is stored after it is fetched from the data source. In the LV Object Array Path box, you enter the path of array if you choose <u>array object</u> to fetch the data. Note:- If you choose <u>database view</u> to fetch the data, leave the LV Object Array Path box blank. The path: \$.POD.DUPLICATE[*] is the path of the Duplicate object. In this path of array, the asterisk (*) character that is enclosed by bracket works as a common loop. When the data is fetched, it reads the data from 0th index and picks the entire record set of data and treats it as a single object. It moves through each index consecutively and picks other records of data.
Primary	In this box, you can enter the values as follows:
Key1/Primary Key2/ Primary Key3	 Case1:- (If you are using the array object to fetch the data) > In these boxes, enter the variable (For example: - ID) (Fig 3.4.2 (d)) that you have declared when you created the object in the Entity and Relationship module. You will use this variable if you are fetching the data by using array object. Case2:- (If you are using database view to fetch the data) > In these boxes, enter the name of primary key (For example: - PRIMARY_KEY_1, PRIMARY_KEY_2, PRIMARY-KEY_3) if you are fetching the data from the database view.
Vw Name	In this box, enter the name of database view if you are using the database view to fetch the data from the data source and then display it in the list.

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	Entity & R	elationship	
	Entity	Relationship	
Please Provide below details to create an entity	POD	DUPLICATE	
Entity Name' DUPLICATE			
Primary Attribute \$ POD DUPLICATE!! ID	0 0	e 🗇	
PK ID Group Name" DUPLICATE	This object, DUPLICATE, w created in the Entity and R module, can be used to sto	elationship	



Header*	Object Type*	Api Name	
Duplicate List	DUPLICATE		
Vw Name	Lv Object Array Path	Primary Key 1	
	\$.POD.DUPLICATEI'I	id	
Primary Key 2	Primary Key 3	Lv Plus Group	
ld	id		

(Fig 3.4.2 (e)) (Configuring List with Array Object)

Header*	Object Type*	Api Name
Total Records	OBJECT_TYPE	
Vw Name	Ly Object Array Path	Primary Key 1
vw_data		PRIMARY_KEY_1
Primary Key 2	Primary Køy 3	Lv Plus Group
PRIMARY_KEY_2	PRIMARY_KEY_3	

(Fig 3.4.2 (f)) (Configuring List with Database View)

After you enter values in the respective boxes as described in the last table, define the card that is described as follow:

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3.4.2.1 Defining Card

You define a card to determine the layout of the list, in which data is displayed on the card.

To define the card, perform the function as follows:

1. In the List View dialog box (Fig 3.4.2.1 (a)), locate upper panel that contains the card templates.

D: 107496		List View		
Select Template'	Morearrosazza Substatuto Chandia Contensatia Di Dociti E la dialan Bi Tochia	Padul Singh Account Account	Account	Appropriation Sufficience Channels Sufficience of Sufficience Sufficience of Sufficience S

(Fig 3.4.2.1 (a))

2. After you select a card template (Fig 3.4.2.1 (b)), the Define Card link appears.

List View			
ADF0987564321 SubDiskshmi Chandra V, -IT Mesester E. Toksi B, Toksian B. Toksia	Prafull Singh Account Account	Account 0	APPORTANT Suffmented Bandy Common Systems Common Systems C
Object Type*		Api Name	
Ly Object Array Path		Primary Key 1	
Primary Key 3		Lv Plus Group	
Filter Re	einace 14	Allow Corw*	Save Cano
	Subhasheri Olandis V IT HEREINE E TOUR R TOUR Diplect T Liv Object Primary	Abroestseaton Subblakative Otandra V re wasaetine (f) 700.08 & handra Object Type*	Adressionsatzin Subbulasteri (Nandis 1

(Fig 3.4.2.1 (b))

3. Click the Define Card link, the Define Card dialog box (Fig 3.4.2.1 (c)) opens.

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	Defi	ne Card	
Template Selected	Carc	ſ	Actions
V_REF_KEY_1 V_REF_KEY_2	V_Ref_Key_1 Attracted	Comparison Labor Encounter Id	Component Icon
 € v_007,00V,0 ■ v_007,00V,0 ■ v_007,00V,0 ■ v_007,00V,0 ■ v_007,00V,0 ■ v_007,00V,0 	Fallure Attribute id	Show Label Yes	▼ Is Searchable ▼
	BR Validation Id Business Rule		
	V_Ref_Key_2 Attractive Ind pot	Comparisent Label Percentage	Component Icon
	Ealbure Attribute Id	Show Labet Yes	Is Searchable Done
			Save Cancel

(Fig 3.4.2.1 (c))

- In the Define Card dialog box (Fig 3.4.2.1 (c)), the Card tab displays fields (For example: ID, Component Label, etc.) for different variables/key (For example: - V_Ref_Key_1 or V_Ref_Key_2).
- 5. In the respective fields, enter values as follows:

Вох	Description
Attribute ID	In this field, enter the attribute ID (For example: - ID). In the attribute ID, the list holds specific value and then displays it in the corresponding label on the card of mobile app.
	Note:- In the Attribute ID field, enter the value that matches the name of key/attribute that you receive in the response after the data is fetched from the respective data source.
	For instance: - If you are receiving the name of a person in the Name key/attribute in the output of the API, enter Name in the Attribute ID box.
	If the value in Attribute ID field does not match the key name or attribute name in the response of the API, list will not display the data.
Component Label	In this field, enter the name of label (For example:-Employee ID, Count, or Name, etc). The list will display the data along with the label.
Component Icon	This is optional field. In this field, enter server based path of icon, if you want to display the icon of the label.
Show Label	Click the list to:

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	 Select Yes if you want to display the label along with the respective value that the list displays on the card. Select No if you do not want to display the label along with the respective value that the list displays on the card. In this case, the list will only display the value. 	
	that the list displays on the card. In this case, the list will only display the value.	
Is Searchable	Click the list to:	
	Select Yes if you want to incorporate the search option along with the value that	
	the list displays. Otherwise, select No .	
BR Validation	This is the optional feature. While defining a card, if you want to apply the business	
Id	rule, click Business Rule, the Rule ID dialog box opens. In the Rule ID dialog box,	
	write the business rule.	

6. After you enter values in the respective fields as described in the last table, enter values in these fields for other variables.

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3.4.2.2 Configuring Action on the Card

This function allows you to configure an action on the list of the card. You can configure the action on the list horizontally or vertically. You can incorporate a phone book, delete function, and other usable action items.

To configure an action on the list:

- 1. In the **Define Card** dialog box, click the **Action** tab **(Fig 3.4.2.2 (a))**, the **Define Card** dialog box displays the group of the following fields:
- > Action Sub Type
- LV Action Type
- Image Icon
- Action ID

Template Selected	Card'	Action	S
V,REF_KEY_1 V,REF_KEY_2	Action Sub Type "	* EV Action Type:	
economia Meconomia Meconomia Seconomia Seconomia Seconomia	Image Icon'	Action ID	
		Create Action	

(Fig 3.4.2.2 (a))

2. In these fields, enter values as follows:

Field	Description		
Action Sub Type	Click this list to select:		
	HAB if you want to place action items along the horizontal bar.		
	VAB if you want to place action items along the vertical bar.		
LV Action Type	In this box, enter the name of action item (For example: - Edit, Delete, Info,		
	etc).		
Image Icon	In this box, enter the name of icon that is displayed in the list. The icon denotes the respective action item.		
	For instance: - For the icon of the delete function, enter: ic_drop . For the icon of edit function, enter: ic_appointment .		

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	These icons are available on the Vahana server.
Action ID	 You can use this function to configure an action for the action item. To configure the action: Click Create Action (Fig 3.4.2.2 (a)), the Task dialog box (Fig 3.4.2.2 (b)) opens. In the Search by task box (Fig 3.4.2.2 (b)), enter the task that you want to apply (For example: - Delete Current Child Object), the Delete Current Child Object (Fig 3.4.2.2 (b)) task appears. Select the task (For example: - Delete Current Child Object) and then click Save (Fig 3.4.2.2 (b)), the action is successfully configured.
	Note:- The function of the Delete Current Child Object task is that it deletes currently selected element after the user taps the Delete icon in the card template.

Task I	D: 95681	Task	
search by task	٩	Added Task	Expand All. *
Api Integration		1 Delete Current Child Object	1 ~
Business Rule Validation Call Print		11 Refresh	回 ~
Clear Control Data			
Clear Navigation History Clear Temp Variable			
Control Disable			
Control Editable Control Invisibility			
Control Visibility			
Copy Value			Save Cancel

(Fig 3.4.2.2 (b))

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- 3. To configure other actions, click Add Row (Fig 3.4.2.2 (a)), another row of the following fields: appears.
- > Action Sub Type
- > LV Action Type
- > Image Icon
- Action ID
- 4. In these fields, enter values as described in the last table to configure another action on the list.
- 5. After you configure the card template and action items that you want to place on the card template, click **Done (Fig 3.4.2.2 (b))**, the **Define Card** dialog closes.
- 6. In the List View dialog box, click Save, the list is configured.

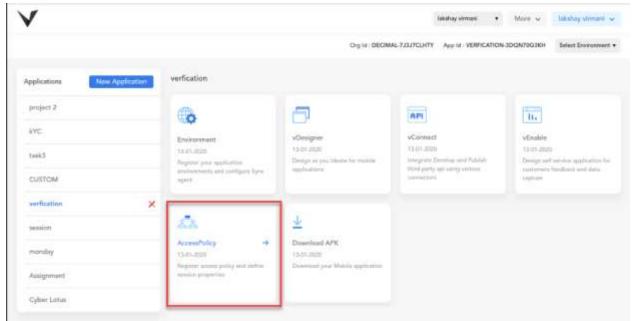
3.5 Defining Access Policy

'Access Policy' is one of the important features of the Vahana platform. It allows you to build the access policy for the mobile app that you design in the vDesigner application. Before publishing a mobile app, you need to define the access policy.

While defining the access policy for the mobile app, you can define several session related timeframes, requirements of app related logs. You can define the access policy as follows:

To define the access policy:

1. On the Vahana project management dashboard, locate the Access Policy tile (Fig 3.5 (a)).



(Fig 3.5 (a))

2. Click the Access Policy tile, the Access Policy dialog box (Fig 3.5 (b)) opens.

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ccess Policies	
Please provide the below details to star	rt building.
User Session Expiry Time(in minutes)	App Session Expiry Time(in days)
1440	365
Is Multiple Session allowed	Application Active Status
User Inactive Session Expiry Time	
	Close Submit

(Fig 3.5 (b))

3. In the Access Policy dialog box, enter value or select the option as described in the following table:

Box/Check box	Description
User Session	In this box, enter the value in the minute unit (For example: - 1440). This value
Expiry Time (In	specifies the timeframe after which the user's login session in mobile app will
Minute)	automatically expire.
App Session	In this box, enter the value in the day unit. This value specifies the number of days
Expiry Time (In	after which the mobile app session will automatically expire. If the app session
Days)	expires, the user needs to restart the mobile app by tapping its icon.
Is Multiple	Click this check box to allow multiple sessions on the mobile app. Allowing multiple
Session	sessions on the app specifies that more than one user can access the app by using
Allowed	different devices.
User Inactive	Click this check box if you want to define the user inactive session expiry time. The
Session Expiry	user inactive session time specifies the timeframe, in which the user does perform
Time	any function on the mobile app.
	After the user inactive session time exceeds the configured value of user inactive session expiry time, the user session will automatically expire on the mobile app. Therefore, user will have to log in the mobile app again to access it.
	To define the user inactive session expiry time:
	1. Click the User Inactive Session Expiry Time check box, the User Inactive
	Session Expiry Time(min) box opens.

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	 In the User Inactive Session Expiry Time(min) box, enter the value in the minute unit (For example:- 40). The value: 40 that is entered in the User Inactive Session Expiry Time(min) box specifies that if the user does not perform any function on the mobile app for the last 40 minutes, the user session will automatically expire.
Source IP Validation Required	Click this check box if you want to give access of the mobile on specific IP address. After you click the Source IP Validation Required checkbox, the Provide IP box opens. In the Provide IP box, enter the IP address on which you want to provide the access of the mobile app.
Mobile Application Log Required	Click this check box if you require communication logs of mobile app.
Server Audit Log Required.	Click this check box if you require server audit logs for reporting purposes.

4. After you click the respective check box to select the desired options and enter values in the respective boxes, click **Submit**, access policy is successfully defined.

3.6 Downloading APK

This feature allows you to publish the build of mobile app. Later, this mobile app can be installed on the mobile phone device. Here, it is one important point to note that you cannot publish the build of the mobile app if you do not define access policy. <u>First you need to define the access policy, only then you can publish the build of the mobile app</u>.

While publishing the (.apk) file of the mobile app, you can also

- > Upload the logo of the mobile app
- > Upload the JSON
- > Define the version name and the version number of the mobile app
- > Define dashboard header
- Using specially designed client-specific SDK(s) such as Roadzen camera and video SDK(s), tata SDK, Tech5 SDK, and others

To publish the APK file of the mobile app:

1. On the Vahana project management dashboard, locate the **Download APK** tile (Fig 3.6 (a)).

V			lakshay virmani 🔹	More 🗸 🛛 lakshay virmani 🗸
		Org Id : DECIMA	AL-7J3J7CLHTY App Id : VERFICATION	3DQN70G3KH Select Environment
Applications New Application	verfication			
project 2	6	-	API	16
kYC	Environment	vDesigner	vConnect	vEnable
task3	13-01-2020 Register your application	13-01-2020 Design as you tdeate for mobile applications	13-01-2020 Integrate Develop and Publish third party apl using various	13-01-2020 Design self service application for customers feedback and data
CUSTOM	environments and configure Sync. agent	appreations	connectors	customers reedback and data cigture
verfication 🗙				
session	8888			
monday	AccessPolicy →	Download APK 13-01-2020		
Assignment	Register access policy and define session properties	Download your Mobile application		
Cyber Lotus				

(Fig 3.6 (a))

2. Click the Download APK tile (Fig 3.6 (a)), the Download App dialog box (Fig 3.6 (b)) opens.

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ownload APP	Android
	Get config file for your app?
Upload LOGO	Upload JSON
Please provide the below details to sta	rt building.
Please provide the below details to star	rt building. App 1d
OrgID	App Id

(Fig 3.6 (b))

3. In the **Download App** dialog box, perform the function in the respective fields as follows:

Field	Description
Upload Logo	Click this box and then select the desired image file to upload it as a logo of the
	mobile app.
Upload Json	Click this box and then select the JSON file to upload.
OrgID and App id	These fields, which are non-editable, display unique org ID and app ID
	respectively. The values of Org ID and App ID are automatically created at the
	time, you create new app on the Vahana platform. The instance of specific app is
	identified by Org ID and App id.
Environment	Click this list to select the environment, in which you have developed the mobile
	app. If you have used the Sand_box as environment, click the list to select
	SAND_BOX. After you select the environment, the Submit button becomes
	active.
Client Secret	The client secret is commonly used to debug the mobile app.
Platware Client	This box displays the URL of the API gateway. This URL is used to handle API(s)
URL	that are deployed on the Vahana platform.
Enable Push	Click this check box to enable the push notification from the mobile app.
Notification	
Version Name	In this box, enter the version name (For example: - 1.0 Or 2.11, etc.) of mobile
	app. In this box, you can use the decimal to enter or write the version name of
	the mobile app.
Version Code	In this box, enter the version code (For example: - 1, 2, or 5). The Version Code
	box does not allow decimal when you enter the numeric value to write the
	version code.

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A	
Application	In this box, enter the name of the application that you want to publish. After the
Name	user install the mobile app on his mobile phone, the name of application appears
<u> </u>	below the icon/logo of the mobile app.
Dashboard	In this box, enter the name of dashboard header (For example: - Welcome or
Header	Welcome on CusManagement App). After the user install the mobile app and
	then access by logging in it, the name of dashboard header appears on the top of
	the dashboard.
Application	Click this list to select the theme color of the mobile app that you want to publish.
Theme Color	Suppose, if you select the theme color: 'blue', elements, UI, and other objects in
	the app will be displayed in the blue color.
Login Template	Click this list to select the login template. After you select a login template, you
	need to implement or code the login mechanism of the selected template.
	Based on the selected template, the mobile app may ask you to enter:
	Either mobile number with OTP or,
	Mobile number with password, or
	> Any other mechanism
Document	In this box, enter alphanumeric document manager client secret key to use
Manager Client	document manager service.
Secret	
Document URL	In this box, enter the URL of the document manage service if you want to use the
	document manager service.
Tech5 License	In this box, enter alphanumeric Tech5 licensed registration key if you want to
registration key	make the Tech5 SDK available to the mobile app user.
Export as SDK	Click this check box to use the mobile app build as an SDK.
Remove	Click this check box if you want to remove the branding logo.
Branding Logo	
Enable SSL	By default, this option is selected. Being selected this option specifies that the you
Bypass	do not want to use the SSL certificate,
	If you want to include SSL certificate, click to clear the Enable SSL Bypass check
	box and then enter the name of SSL certificate in the SSL Certificate name box.
Enable Register	Click this check box if you want that only registered user can access the mobile
User	app. After you click this check box, another option: Open Login After Registration
	starts appearing.
	If you click the Open Login After Registration check box, it means that the user
0.(();	can log in the mobile app after s/he becomes registered user.
Offline Access	Click this check box if you want to access the mobile app even without the
Required	availability of Internet connection.
Show OTP Login	Click this check box if you want to include the OTP feature in the login
	mechanism. After you click this check box, the server sends a unique OTP to the
	mobile app user. The user needs to enter the OTP to log in the mobile app.
Enable Forget	Click this check box if you want to incorporate the "forget password" feature in
Password	the login mechanism. By incorporating this feature, you allow the mobile app user
	to get the new password if s/he forgets the current password.

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Enable AWS	Click this check box if you want to use AWS service.
Auth	
Enable Video	Click this check box if you want to provide the video recording feature in the
Recording	mobile app to the user.

- 4. You can also click the respective check box to use the following SDK (s) that are available on the Vahana platform:
- > Tech5 Camera SDK
- Tata SDK
- > OCR SDK
- Roadzen Video SDK
- Roadzen Camera SDK
- > MOSL SDK
- > Firebase In-App Message SDK

Download APP	Android •
✓ Offline Access Required	Use Tech5 Camera Sdk
Use Tata SDK	Use OCR Sdk
Use Roadzen Video Sdk	Use Roadzen Camera Sdk
Show Otp Login	Use MOSL Sdk
Enable AWS Auth	Firebase In-App Message SDK.
	Cancel Submit

(Fig 3.6 (c))

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5. After you enter the values in the respective boxes or click the respective check box to download the APK file, click **Submit (Fig 3.6 (c))**.

Download APP	Android •
Use Roadzen Video Sdk	Use Roadzen Camera Sdk
Show Otp Login	Use MOSL Sdk
Enable AWS Auth	Firebase In-App Message SDK.
Enable Forgot Password	Enable video recording.
APK URL https://s3.ap-south-1.amazonaws.com/vahana-desi	gner/dataOn/DECIMAL-K203RIRB0R/KUMAR_27-FVUKPSFROM_AND_BO
	Click here to copy this link in the address box of the Internet browser.
	Cancel Submit



- 6. After you click **Submit**, the Download APK service creates the URL to download the APK of the mobile app.
- 7. Scroll down the **Download App** dialog box, the **APK URL** box (Fig 3.6 (d)) displays the URL that you can visit to download the build of mobile app.
- 8. Click **Copy** (Fig 3.6 (d)) and then open the Internet browser on your computer system.
- 9. In the Address box of the Internet browser, place the mouse pointer, right-click and then select **Paste**, the URL (Fig 3.6 (e)) is copied.

S https://s3.ap-south-1.amazonaws.com/vahana-designer/dataOn/DECIMAL-K203RIRB0R/KUMAR_27-FVUKPSFROH/SAND_BOX/app-release.apk

(Fig 3.6 (e))

- 10. After you paste the URL, press **Enter**, the Internet browser starts downloading the APK file.
- 11. After the APK file is downloaded, transfer the APK to the mobile phone device and then install it.



3.7 Data Modeling (JSON Creation with Entity and Relationship)

JSON (Java Script Object Notation) is a popular data interchange format that is prevalently used to transmit the data between two entities. The syntax of JSON format is based on Java script and can be easily learnt to design HTTP based web API(s) and services. JSON is light-weight and easily readable. Also JSON can be used as an ideal data model to store object and entity related details that can be subsequently stored and managed on the database level.

In the vDesigner application, the user performs several functions such as creating a form, configuring a list, configuring elements, creating entities, establishing relationship between entities, and others. Each time a user performs the function to create/update these entities, the vDesigner application creates a data model in the JSON format. This data model stores the configuration details of all objects and entities that the user creates to design a mobile app in the vDesigner application. It significantly helps user track the configuration details of several objects in the mobile app and allows user to debug the mobile app during development phase.

Conclusively, it can be said that the vDesigner application creates JSON data model on the mobile app level. This data model contains the configuration details of object/entity that can be tracked to debug the mobile app. <u>To track and monitor JSON data model in vDesigner, you must have proficiency to</u> <u>understand JSON syntax on the programming level</u>.

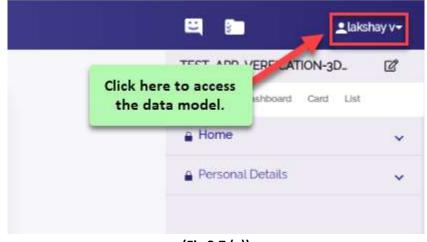
The advantage of vDesigner application is that it creates the JSON data model by using <u>de-normalized</u> approach. In the de-normalized approach, the data model manages the details of objects/entities across different nested blocks in a single document. To access the data of specific object, <u>these blocks can be</u> <u>expanded and collapsed</u>.

The following section explains how to access the JSON data model in the vDesigner application.

To access JSON data model in vDesigner:

1. In the top-right corner of the vDesigner dashboard, locate the user name (Fig 3.7 (a)) of the application.

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(Fig 3.7 (a))

2. Click the user name in the top-right corner, a toolbar (Fig 3.7 (b)) opens.

	8	≜lakshay v+
	TEST_APP_	E Application Json
	Component	
me	e Home	Message Master
N	e Persona	FE Component Migration
		Ø Designer Guide
r Card ?	A Occupat	E Getting Started
	Address	and octaining official of
de		🔚 Aadhaar Info
	Custome	C+ Logout
	(Fig 3.7 (b))	

3. In the toolbar, select Application Json, the Component Config Json box (Fig 3.7 (c)) opens.

=



×

Component Config Json

screensArray. ArrayIsI (I"FORM_ID':1;FORM_HEADER':1Home";FORM_TYPE";FFTHEADER:11"BACK_OPTION:1HOME";BACK_OPTION_MSG_ID."WARI
 appDefnForm_Object ("ORG_ID':DECIMAL-7):3J7CLHTY";APP_ID':ASSIGNMENT_-OSAJ:DVM3V";APP_DISPLAY_NAME':TEST_APP_ASSIGNMENT_-C
 dashboardsArray. ArrayIsI (I"DASHBOARD_NAME':WELCOME";DASHBOARD_TYPE':1MAGE";VIEW_TABLE_NAME':1";PROCESS_ID':11"MAGE_PATH':c
 cardsArray. ArrayIsI (I"DASHBOARD_NAME':WELCOME";DASHBOARD_TYPE':1MAGE";VIEW_TABLE_NAME':1";PROCESS_ID':11"MAGE_PATH':c
 cardsArray. ArrayIsI (I"CARD_ID':1:HEADER':CARD ONE';DETAIL_TEXT':terr';SORT_SEQUENCE':11"LOCATION_FILTER':ALL:'TIME_OF_DAY';ALL:'PA
 listsArray. ArrayIsI (I"COMPONENT_TYPE':PLUS_ACTIONS_DEN';COMPONENT_ID':1";CURRENT_VERSION':11"LOCKED_BY':Takshayvirmania
 idGeneratorArray. ArrayIsI (I"COMPONENT_TYPE':PLUS_ACTIONS_DEN';COMPONENT_ID':1";CURRENT_VERSION':1.1"LOCKED_BY':Takshayvirmania
 idGeneratorArray. ArrayIsI (I"COMPONENT_TYPE':PLUS_ACTIONS_DEN';COMPONENT_ID':1";CURRENT_VERSION':1.1"LOCKED_BY':Takshayvirmania
 entityRelationshipsAray. ArrayIsI (I"COMPONENT_TYPE':HAMBURGER_DRAWER';COMPONENT_ID':1";CURRENT_VERSION':1.1",LOCKED_BY':Takshayvirmania
 hambergerDrawerArray. ArrayIsI (I"COMPONENT_TYPE':HAMBURGER_DRAWER';COMPONENT_ID':1";CURRENT_VERSION':1.1",LOCKED_BY':Takshayvirmania

(Fig 3.7 (c))

- 4. The **Component Config Json** box displays the json data model that is created on the app level.
- 5. In the vDesigner application, the app level JSON data model can be interpreted as follows:

3.7.1 App Level Data Model

=	Component Config Json	×
 screensArray Array! 	I ITFORM_ID'1. FORM_HEADER**Home*FORM_TYPE**FF**HEADER2****BACK_OPTION**HOME**BACK_OPTIOI	N_MSG_ID""WAR
appDefnForm: Object	t ("ORG_ID" "DECIMAL-7/3J7CLHTY" APP_ID" "ASSIGNMENTOSAJ1DVM3V" "APP_DISPLAY_NAME" "TEST_APP.	_ASSIGNMENT
dashboardsArray Ar	aylal II"DASHBOARD_NAME*"WELCOME""DASHBOARD_TYPE" "IMAGE" VIEW_TABLE_NAME"" "PROCESS_ID"	","IMAGE_PATH":"d
 cardsArray: Array[1] ["CARD.,ID'1: HEADER'' CARD ONE "DETAIL_TEXT" "Ien" SORT_SEQUENCE" 1" LOCATION_FILTER. "ALL" TIME_	OF_DAY"ALL"PA
 listsArray Array[1] " 	V_DFN_ID'1;1LV_TEMPLATE_ID'12;"HEADER": Dummy List:"OBJECT_TYPE""qwertyu";"PROCESS_ID':"qwerty";"LV	DATA_VW_NAM
	y(1) II'COMPONENT_TYPE'.'PLUS_ACTIONS_DFN','COMPONENT_ID'.'1','CURRENT_VERSION'.1.1',LOCKED_BY'	
idGeneratorArray Ar	ayla) [["COMPONENT_TYPE'!'ID_GENERATION","COMPONENT_ID"11"CURRENT_VERSION"1."LOCKED_BY" "laks	shayvirmanl@deci
entityRelationshipsA	ray Array[1] [["COMPONENT_TYPE""ENTITY_RELATIONSHIP""COMPONENT_ID""1""CURRENT_VERSION"1,"LOC	KED_BY";"lakshay
hambergerDrawerAr	ray Array[1] [["COMPONENT_TYPE": "HAMBURGER_DRAWER": COMPONENT_ID": 1;"CURRENT_VERSION"1.3;"LO	CKED_BY":"lakshi
stickyMenuArray Ar	aviol II	

(Fig 3.7.1 (a))

If you look at the screen capture: (Fig 3.7.1 (a)), this is JSON based data model that the vDesigner application automatically creates as soon as application user performs the functions in the application. The screen displays the JSON data model at the app (mobile app) level and stores the details of different objects and entities in the array type JSON object.

The application user has created these objects/entities earlier in the vDesigner application. When user creates these entities such as screens/forms, dashboard, card, list, element, entities and others, the vDesigner application automatically creates the JSON data model and stores every details, including configuration details, property values of these entities in the JSON data model, and others.

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For instance: - In the screen capture: the **screensArray** object contains exhaustive configuration details of all the forms/screens that the user has added in the mobile app.

Let's focus on app level data model first. To access mobile app level details in the screen: (Fig 3.7.1 (a)), click the **appDefnForm** array, it expands and displays the details (Fig 3.7.1 (b)) of mobile app that you have created in the vDesigner application.

E Component Co	nfig Json	
screensArray Arrayi5i II'FORM_ID':1.'FORM_HEADER`'Home';'FORM_TYP appDefnForm ORG_ID 'DECIMAL-7J3J7CLHTY' APP_ID 'ASSIGNMENTOSAJ1DVM3V' APP_DISPLAY_NAME 'TEST_APP_ASSIGNMENTOSAJ1DVM3V'	ETFETHEADER2TTBACK OPTIONTHO Unique app id and org id of mobile app.	METBACK_OPTION_MSG_ID**W The name of mobile app that is
PLATWARE_SERVER_URL *http://180.179.200.186.9004/router/engin DASHBOARD_CREATE_ACTION_ID ** PLATFORM *ANDROID* NETWORK_LISTENER_ACTION_ID ** BUILD_ENVIRONMENT ** CRASHLYTICS: **	The URL of API gateway.	displayed in the vDesigner application
DEBUG: 'Y' SCREENSHOT_ALLOWED: " ROOTED_DEVICE_ALLOWED: " > ACTION_GRP_TASK_DFN: Array[o] []		
BUS_VALIDATION_GRP_DFN: Array[o] []		



As the screen capture (Fig 3.7.1 (b)) clearly depicts that the appDefnForm is the array type JSON object that stores the configuration details of the mobile app. To access the configuration details of the app, click the name of appDefnForm array. The array expands and displays the details of the mobile app. The ORG_ID and APP_ID attributes store the unique app id and org id respectively, which are created at the time you create a new agent on the Vahana platform.

The **PLATWARE_SERVER_URL** attribute contains the URL of the API gateway. As described earlier in the document, the API gateway is used to handle API(s) that are deployed on the Vahana platform. If you look at the **DEBUG** attribute, you will find that it stores the value: Y. The 'Y' value specifies that the debug feature for this app is active. With active debugging mode, you can debug the mobile app by using its JSON data model.

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The following screen capture: (Fig 3.7.1 (c)) also displays the details of mobile app. In the screen, the COMPONENT_TYPE attribute contains the type of entity. For each entity/component that you add or create in the vDesigner application, the COMPONENT_TYPE attribute stores the type of entity. In the following screen: (Fig 3.7.1 (c)), COMPONENT_TYPE attribute stores the value: APP_DEFN_FORM. This value specifies that the component type of the entity is the form where you can add dashboard, card, list, elements, and others.

	Component Config Json	8
APP_DISPLAY_NAM	IE 'TEST_APP_ASSIGNMENTOSAJ1DVM3V'	
PLATWARE_SERVE	R_URL "http://180179.200.186.9004/router/engine/v1/galeway"	
DASHBOARD_CREA	TE_ACTION_ID **	
PLATFORM "ANDRO	UD'	
NETWORK_LISTEN	ER_ACTION_ID "	
BUILD_ENVIRONM	ENT.**	
CRASHLYTICS "		
DEBUG 'Y'		
SCREENSHOT_ALL	OWED "	
ROOTED_DEVICE_A	LLOWED **	
► ACTION_GRP_TASK	_DFN Arraylol	
► BUS_VALIDATION_	GRP_DEN: Arraylol II	
COMPONENT_TYPI	E 'APP_DEFN_FORM'	
CURRENT_VERSIOI	N 11	
LOCKED_BY "Lakshi	ayvirmani@decimat.co.in*	
COMPONENT_ID 1		
lashboardsArray. Arravi	11 II'DASHBOARD NAME'''WELCOME''DASHBOARD TYPE'''IMAGE''VIEW TABLE NAME'''''PROCESS ID'''''IMAGE PATH	are.

(Fig 3.7.1 (c))



3.7.2 Screen Level Data Model

	Component Config Json	×
 1 Object ['FORM_HEAt 2 Object ['FORM_HEAt 3 Object ['FORM_HEAt 4 object ['Form_Heat 	"FORM_HEADER" "Home" "FORM_TYPE" "FF" "HEADER2" ","BACK_OPTION "HOME" "BACK_OPTION_MSG_I DER" "Personal Details" "HEADER2" "Please fill following details" "BACK_OPTION "PREVIOUS FORM" "BACK_ DER" "Occupation Details" "HEADER2" ""BACK_OPTION" "PREVIOUS FORM" "BACK_OPTION_MSG_ID"" "INFO_ DER" "Address Details" HEADER2" ""BACK_OPTION" "PREVIOUS FORM" "BACK_OPTION_MSG_ID"" "INFO_ DER" "Customer Care Support "HEADER2" ""BACK_OPTION" "HOME" "BACK_OPTION_MSG_ID" "1013" "INFO_ DER" "Customer Care Support "HEADER2" ""BACK_OPTION" "HOME" "BACK_OPTION_MSG_ID" 1013" "INFO_ DER" "Customer Care Support "HEADER2" "BACK_OPTION" "HOME" "BACK_OPTION_MSG_ID" 1013" "INFO_ DER" "Customer Care Support "HEADER2" "BACK_OPTION" "HOME" "BACK_OPTION_MSG_ID" 1013" "INFO_ G_ID" DECIMAL-7J3J7CLHTY" "APP_ID" "ASSIGNMENTOSAJ1DVM3V" "APP_DISPLAY_NAME" "TEST_APP_ I"DASHBOARD_NAME" "WELCOME" "DASHBOARD_TYPE" "IMAGE" VIEW_TABLE_NAME" ""PROCESS_ID" D_ID" 1."HEADER" "CARD ONE", DETAIL_TEXT" "Torr", SORT_SEQUENCE" 11" LOCATION_FILTER" "ALL: "TIME_ N_ID" 1."U_TEMPLATE_ID" 2."HEADER" "Dummy List" "OBJECT_TYPE" "qwertyu", PROCESS_ID" "qwerty" "LV COMPONENT_TYPE" "PLUS_ACTIONS_DFN" "COMPONENT_ID" 1."CURRENT_VERSION 1.1 LOCKED_BY" "COMPONENT_TYPE" "ID_GENERATION" COMPONENT_ID" 1."CURRENT_VERSION 1.1 LOCKED_BY" "Takita" (COMPONENT_TYPE" "HAMBURGER_DRAWER" COMPONENT_ID" 1."CURRENT_VERSION 1.1 LOCKED_RY" 1.1	OPTION_MSG_IE FO_MSG_ON_NEXT_ O_MSG_ON_NEXT_ O_MSG_ON_NEXT _ASSIGNMENT("'IMAGE_PATH''C OF_DAY''ALL''PA /_DATA_VW_NAM ''lakshay.virmani@ shay.virmani@deci (KED_BY''lakshay

(Fig 3.7.2 (a))

The screen capture: (Fig 3.7.2 (a)) displays the JSON data model at the screen level. If you click the name of the screensArray object, it expands and displays the configuration details of each screen that you have added in the mobile app. The objects: *O Object, 1 Object, 2 Object*...are array type JSON objects that store configuration details of the respective screen. The FORM_HEADER attribute contains the title name of screen, while if you look at the HEADER2 attribute, you will find that it contains blank value, which means that the respective screen does not have any sub-title. The BACK_OPTION attribute contains the value that specifies the screen or page to which the user will navigate after s/he taps the back option. For instance: - The value: PREVIOUS FORM specifies that the user will navigate to the previous form or screen if s/he taps the back option.

Subsequently, to view screen-wise configuration details, you can click the name of the object array of specific screen (For example: - 0 Object), the 0 Object array expands and displays the configuration details (Fig 3.7.2 (b)) of the respective form/screen.

In the configuration details (Fig 3.7.2 (b)) of the screen, the FORM_HEADER attribute contains the title of the screen. Again, the BACK_OPTION attribute contains the header name (title) of the screen where the user will navigate if s/he taps the back option on the mobile app. The FORM_PLUS_GROUP and DRAWER_NAME attributes respective store the name plus group and hamburger drawer that will be displayed on the current screen. Whereas, the LOCKED_BY attribute stores the user ID of the application user who has added/created the current screen.

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E Component Config Json	×
screensArray.	
* 0	
FORM_ID: 1	
FORM_HEADER "Home"	
FORM_TYPE: 'FF'	
HEADER2 "	
BACK_OPTION: "HOME"	
BACK_OPTION_MSG_ID: "WARNO1"	
INFO_MSG_ON_NEXT_FORM."	
CREATE_ACTION_ID **	
STOP_ACTION_ID: "	
BACK_ACTION_ID: "	
DISABLE_VALID_GRP_ID **	
FORM_PLUS_GROUP 'PLUSGROUP_HOME'	
DRAWER_NAME "DRAWER_HOME"	
Component_Code 1	

(Fig 3.7.2 (b))

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3.7.3 Dashboard Level Data Model

≡	Component Config Json 🗶
	M_ID'1, FORM_HEADER', Home', FORM_TYPE', 'FF', 'HEADER2', 'Please fill following details', 'BACK_OPTION', 'HOME', 'BA
	.ID""SALES-SVH877YUU7".APP_ID" T5-ABIS-ZTVG8T3VWR".APP_DISPLAY_NAME`'TEST_APP_T5-ABIS-ZTVG8T3VWR
 dashboardsArray. object PDASUBOARD 	NAME**Tech5 - Mobile App POC**DASHBOARD_TYPE**IMAGE**VIEW_TABLE_NAME****PROCESS_ID****IMAGE_PATH
in the second	INAME TRUIS F MUDIE AUD FOU, DASINDUARD ITTE TIMAGE, VIEW TRUEEDNAME T, PROCESSIUT, IMAGELATIN
 cardsArray contract PLEA DEPT/Feature 	AUPDETAIL TEVENTS AND SHOW AND
1	oll"DETAIL_TEXT"To start a new identification process "SORT_SEQUENCE"1","TIME_OF_DAY"ALL"LOCATION_FILTE
HEADER: "Total Reco	unic'
DETAIL_TEXT "Icour	
SORT_SEQUENCE	
TIME_OF_DAY: 'ALL'	
LOCATION_FILTER	
PART_OF_WEEK "A	
CARD_GROUP_NAM	
CARD_NAME 'DASH	
PART_OF_MONTH	
CADD TEMPLATE I	
	(Fig 3.7.3 (a))

In the data model document, as depicted in the screen capture: (Fig 3.7.3 (a)), the dashboardsArray object stores the configuration details of the mobile app dashboard. After you click the dashboardsArray object to expand it, it displays the configuration details of the currently added dashboard. Under dashboardsArray, only one array type JSON object: 0 Object is available. It means that the mobile app has only single dashboard. The 0 Object stores the details of the dashboard.

In the configuration details of the dashboard, the **DASHBOARD_NAME** attribute contains the header/title of the dashboard, while the value: **IMAGE** in the **DASHBOARD_TYPE** attribute specifies that the dashboard displays the image on the mobile app. To view all the details of dashboard, you can click the **O Object** to expand it.

Another array type JSON object: **cardsArray** contains the configuration details of dashboard card. Under **cardsArray** (Fig 3.7.3 (a)), you can view two JSON type array objects: *O Object* and *1 Object*. Under the **cardsArray** object, the availability of these two objects specifies that the dashboard contains two different cards. As shown in the screen: (Fig 3.7.3 (a)), if you click the **1 Object**, it expands and then displays the configuration details of the respective card. In the details of card, the **HEADER** attribute stores the name/title of the card. The **SORT_SEQUENCE** attribute stores the sequence number/order number of the card. The sequence number of the card specifies the number on which the dashboard displays the respective.

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In the following screen: (Fig 3.7.3 (b)), the CARD_GROUP_NAME attribute stores the value: DASHBOARD, which means that the card is placed in the dashboard.

	Component Config Json	×
LOCATION_FILTER 'ALL'		
PART_OF_WEEK "ALL"		
CARD_GROUP_NAME "DASHBOARD"		
CARD_NAME 'DASHBOARD CARD'		
PART_OF_MONTH 'ALL'		
CARD_TEMPLATE_ID: 1		
CARD_VIEW_TABLE_NAME 'vw_data_court	r -	
SEARCH_CRITERIA **		
ACTION_TYPE "LIST_VIEW"		
LV_DFN_ID. '80006'		
FORM_ID: **		
ACTION_GROUP_ID "		
FILTER_BUSINESS_ID.		
CARD_ID 74750		
BUS_VALIDATION_GRP_DFN: Arraylo] []		
COMPONENT_TYPE 'CARD'		
CURRENT VERSION 0.6		
	(Fig 3.7.3 (b))	

In the ACTION_TYPE attribute (Fig 3.7.3 (b)), the value: LIST_VIEW specifies that the card displays the list after the user accesses the mobile app dashboard. The CARD_ID attribute (Fig 3.7.3 (b)) stores unique ID of the card, while the COMPONENT_TYPE attribute stores the value: CARD; this value specifies that the entity/component is "card".

	Component Config Json	
stsArray		
the second second prime second second second	TEMPLATE_ID*2."HEADER** Dummy List**OBJECT_TYPE*	"qwertyu""PROCESS_ID""qwerty""LV_DATA_VW_NAM
*1		
HEADER: Duplicate List		
OBJECT_TYPE 'DUPLIC	ATE"	
PROCESS_ID."		
LV_DATA_VW_NAME "		
LV_OBJECT_ARRAY_PA	TH '\$ POD.DUPLICATE(')'	
PRIMARY_KEY_1 "id"		
PRIMARY_KEY_2 "id"		
PRIMARY_KEY_3 "Id"		
LV_PLUS_GROUP "		
DRAWER_NAME **		
FILTER_BUSINESS_ID **		
LV_DFN_ID 79241		
LV_TEMPLATE_ID: 5		
DISABLE_COPY: 'N'		

(Fig 3.7.3 (c))

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In the screen capture: (Fig 3.7.3 (c)), listsArray is array type JSON object. If you click the listsArray object, it expands and displays the configuration details of all lists that the user has applied on the dashboard or elsewhere. In the screen (Fig 3.7.3 (c)), you can view two other array type JSON objects: *O Object* and *1 Object*. These objects store the configuration details of two different lists. Therefore, if you click the **1 Object** array, it expands and then displays the configuration details of the respective list.

In the details of list, the **HEADER** attribute stores the name or title of the list. The **OBJECT_TYPE** attribute stores the name of object where the data is stored. This object can be a <u>JSON object</u> or <u>database object</u>. In the **OBJECT_TYPE** attribute (Fig 3.7.3 (c)), the value: **DUPLICATE** specifies that the object is the JSON type object because LV_OBJECT_ARRAY_PATH attribute contains the path of JSON type array is: **\$.POD.DUPLICATE**[*].

If the LV_OBJECT_ARRAY_PATH attribute contains the blank value, it means that the user chooses the database view to display the data in the list. If the application user chooses the database view, the OBJECT_TYPE attribute will store the database object. The PRIMARY_KEY_1 and PRIMARY_KEY_2, and PRIMARY_KEY_3 objects contain any of the following values:

- > The name of variable that is declared when the application user creates an entity to hold the data.
- > The name of primary kay of the database view.

The database view is used to fetch the data from the database source and then display it in the list.

Subsequently, while exploring JSON data model, you can access and view configuration details of list's content.



(Fig 3.7.3 (d))

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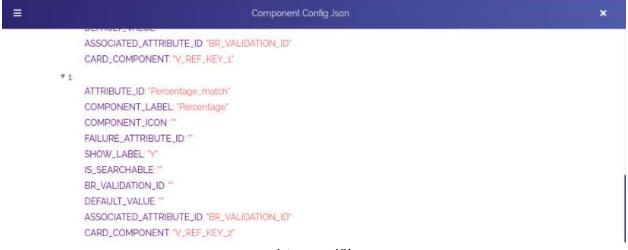
Under the **listsArray** object, locate the **LV_CARD_DFN** object (**Fig 3.7.3 (d)**). After you click the **LV_CARD_DFN** object, it expands and then displays configuration details of list's content. Under **LV_CARD_DFN** object, **0 Object**, **1 Object**, and such other objects are array type JSON objects that store the details of different attributes. VDesigner application user defines these attributes when s/he configures the respective list. These attributes hold data to display it in the list.

To access and view the details of specific list's attribute, click the array (For example: - 1 Object) (Fig 3.7.3 (e)) of the attribute.

► 1 Object ATTRIBUTE_ID''Percentage_match''COMPONENT_LABEL''Percentage''COMPONENT_ICON''''FAILURE_ATTRIBUTE_ID'''

(Fig 3.7.3 (e))

After you click the name of array (For example: - 1 Object), the array expands and then displays the details (Fig 3.7.3 (f)) of attribute.



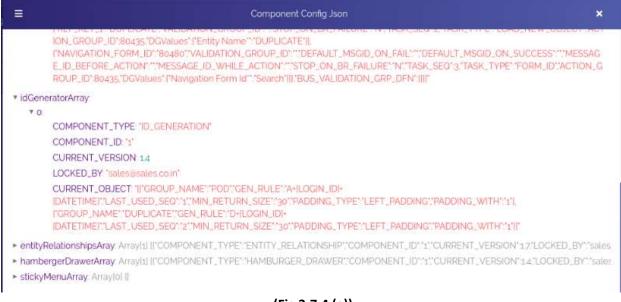
(Fig 3.7.3 (f))

The screen capture: (Fig 3.7.3 (f)) displays the configuration details of the Percentage_match attribute. In the details of attribute, the ATTRIBUTE_ID key/attribute contains the name of attribute, Percentage_match. The COMPONENT_LABEL attribute stores the name of label under which the value is displayed.

After the data is fetched, the **Percentage_match** attribute holds the respective data value and then displays it either right to or under the **Percentage** label.

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3.7.4 Entity Level Data Model



(Fig 3.7.4 (a))

The screen (Fig 3.7.4 (a)) displays the data model of the ID Generator. In vDesigner, the ID Generator module allows you to configure the new rule that creates a unique ID after the Load New Object task executes. This ID is commonly used to track the journey of lead, view the communication logs that are created as a result of lead's journey, etc.

To access and view the data model of the ID Generator module, you need to click the **idGeneratorArray** object, it expands and then displays the details of ID generator rule that the vDesigner application user configures to create unique ID. In the details of data model, the **COMPONENT_TYPE** attribute stores the type of component. In the screen (**Fig 3.7.4 (a)**), the value that is stored in the **COMPONENT_TYPE** attribute stores that the type of component is ID Generator.

In the data model (Fig 3.7.4 (a)), the CURRENT_OBJECT attribute stores the configuration details of ID generator rule. In the configuration details, the GROUP_NAME attribute (For example: - POD) contains the name of entity for which the ID rule is configured. The GEN_RULE attribute stores the formula that is configured to create the unique ID. In the GEN_RULE attribute, the formula: A+[LOGIN_ID]+[DATETIME] creates a unique ID after the LOAD NEW OBJECT task executes as a result of user action. The PADDING_TYPE attribute stores the hardcoded value: LEFT, which means that the ID generator rule will start to create the unique ID from the left side.

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Another array type JSON object: **entityRelationshipsAray** contains the details of different entities and the relationships between them. After you click the **entityRelationshipsAray** object, it expands and then displays the configuration details of entities and the relationships between them. The screen capture **(Fig 3.7.4 (b))** displays:

- > The details of different entities, including parent and child entities
- > The details of relationships that are established between parent entity and child entity

≡ Cor	nponent Config Json 🗙	
 bisArray ArrayIn to Drive 2, bis to read a read and a read and a read a read and a read a read	INS_DFN**COMPONENT_ID**1**CURRENT_VERSION*1.8*LOCKED_BY**sales@sales.co	
► IdGeneratorArray Arraytal II'COMPONENT_TYPE'.'ID_GENERA	ATION"COMPONENT_ID"1"CURRENT_VERSION114"LOCKED_BY"sales@sales.co.in"	
entityRelationshipsAray		
* 0		
COMPONENT_TYPE 'ENTITY_RELATIONSHIP'		
COMPONENT_ID: '1'		
CURRENT_VERSION 17		
LOCKED_BY: "salesiaisales.co.in"		
CURRENT_OBJECT *		
II'ENTITY_NAME''POD''PRIMARY_ATTRIBUTE''\$ PO P_DFN'	D.OBJECT_PRI_KEY"PK_ID_GEN_GROUP_NAME""POD"DO_ENTITY_RELATIONSHI	
II'PARENT_OBJECT_NAME''POD','CHILD_OBJECT_N III.	IAME" DUPLICATE" RELATION" 1"N" ASSOCIATE_ATTR_ARRAY "S POD DUPLICATE []"	
("ENTITY_NAME"."DUPLICATE"."PRIMARY_ATTRIBUTE LATIONSHIP_DFN".IIII"	"*\$.POD.DUPLICATEI]Id"'PK_ID_GEN_GROUP_NAME''DUPLICATE''DO_ENTITY_RE	
► hambergerDrawerArray Array[1] [["COMPONENT_TYPE""HAM	BURGER_DRAWER', COMPONENT_ID'1'1', CURRENT_VERSION'14', LOCKED_BY'1'sales	
No. of the sector of the secto		

stickyMenuArray: Arraylol []

(Fig 3.7.4 (b))

The **CURRENT_OBJECT** attribute stores the configuration details of **parent and child entities** and **relationship between parent and child entities**. In the configuration details, the **Entity_name** attribute stores the name of entity. The **PRIMARY_ATTRIBUTE** attribute/key stores the path of array where the data is stored. The path of array (For example: - \$.POD or \$.POD.DUPLICATE[].ID) contains the name of JSON object (For example: - POD, DUPLICATE). In the path of array, **POD** and **DUPLICATE** are declared as array type JSON objects that store data record consisting different data values. While defining the path of array, you can declare the "ID" variable, which stores the value of unique ID that is created when the **LOAD NEW OBJECT** task executes as a result of user action.

Under **CURRENT_OBJECT**, the **PARENT_OBJECT_NAME** attribute stores the name of the parent object, while the **CHILD_OBJECT_NAME** attribute stores the name of the child object. The **RELATION** attribute stores the value: 1*N. This value denotes one-to-many relationship between parent and child object.

In the configuration details of objects' relationship, the **ASSOCIATE_ATTR_ARRAY** attribute stores the path of array: **\$.POD.DUPLICATE[]**. In the **\$.POD.DUPLICATE[]** array path, the **POD** object refers to another object: **DUPLICATE[]**. This reference scheme specifies that **POD** has been defined as a parent object to the **DUPLICATE[]** array.

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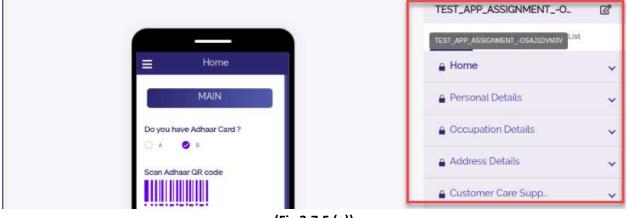
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3.7.5 Turning On Debug Mode

The vDesigner application allows you to use the debug feature to debug the mobile app on the functional level. To use the debug feature, you need to make it active. You can make the debug mode active as follow:

To make the debug feature active:

1. On the vDesigner dashboard, locate the right-most navigation pane (Fig 3.7.5 (a)).





- 2. In the right-most navigation pane, locate the name (For example: Test_app_assignment_-O) of mobile app.
- 3. After you locate the name of mobile app, locate the edit icon (^[2]) (Fig 3.7.5 (b)) right to the name of the mobile app.



(Fig 3.7.5 (b))

4. Click the edit icon (^{III}), the **App Definition Form** dialog box (**Fig 3.7.5 (c**)) opens.

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DECIMAL-7J3J7CLHTY	ASSIGNMENTOSAJ1DVM3V	TEST_APP_ASSIGNMENTOSAJ1DVM3V
Platware Server Urt*	DASHBOARD CREATE ACTION ID	Platform*
http://180.179.200.186:9004/router/engine/v1/	Create Action	ANDROID
NETWORK LISTENER ACTION ID	Enable In App Messaging	in App Msg Image Click Actions
Create Action	© Yes ◎ No	Create Action
Build Environment	Parent Entity ID	
Select •		Crashlytics
Debug Allow ® Yes © No	Allow Screenshot	Rooted Device Allow

(Fig 3.7.5 (c))

- 5. In the **App Definition Form** dialog box, locate the **Debug Allow** mutually exclusive options (Fig 3.7.5 (c)).
- 6. Under **Debug Allow**, click **Yes** and then click **Save**, the debug feature becomes active.

3.8 Configuring Plus Group

In the vDesigner application, the Plus Group module allows you to collectively place group of features/functions in single menu bar. This menu bar expands when you tap the plus group icon. Plus group can be placed on different screens/pages. Also you can design more than one plus group if you want to consolidate features module-wise. Commonly plus group includes most frequently used features that the user can easily access by expanding the menu bar of plus group.

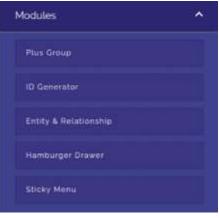
To configure the plus group:

1. On the vDesigner dashboard, locate the left-most navigation pane (Fig 3.8 (b)).





2. In the left navigation pane, click **Module**, the navigation pane (Fig 3.8 (b)) expands.



(Fig 3.8 (b))

3. Under Module, click Plus Group (Fig 3.8 (b)), the Plus Group dialog box (Fig 3.8 (c)) opens.

Note:-

vDesigner by default provides you a plus group with the title/name: **PLUSGROUP_HOME**. You can decisively perform any of two tasks. Either you can use the in-built plus group and add new feature to it, or you can create a new plus group and then add features to it.

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	Plus Group	
Pus Group Name PLUSGROUP_HOME	Capiton' ENROLLI	
Action ID	Visibility Valid ID	۵
Create Atlian	Business Rule	



- 4. In the **Plus Group** dialog box, add new features/menus as described in the following steps:
- 5. To add new features/menus in the plus group, perform the function as follows:

Field/Box	Description
Plus Group Name	In this field, you can perform any of the following functions:
	Case1:- (If you want to use the existing plus group)
	If you want to use the existing plus group, do not enter any value in this box. Let
	it be the name of existing plus group: PLUSGROUP_HOME .
	Case2:- (If you want to create a new plus group)
	To create a new plus group, enter the name of new plus group (For example: -
	PLUSGROUP_INSURANCESCHEME).
Caption	In the box, enter the name of feature or menu (For example: - Enroll) that you
	want to add to the plus group.
Action ID	In the Plus Group dialog box, this function is used to assign an action to the
	feature/menu. The action is assigned to the feature/menu based on the
	functional requirement of the respective menu.
	To assign the action to a plus group item, visit the heading section: <u>Assigning</u> <u>Action to Plus Group</u> .
Validity Business	You can use this function to apply the business rule for the visibility of specific
Rule	plus group menu item. To apply the business rule:
	1. Under Visibility Valid ID, click Business Rule, the Rule ID dialog box opens.
	2. In the Rule ID dialog box (Fig 3.8 (d)), you can write the business rule in the
	upper box.
	3. After you write the business rule, click Submit BRE , the business rule is
	applied to the plus group menu item.

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	253	
L	Write the business rule here.	
Erase All		Verify JSON
		Submit BRE Cance

- 6. After you enter the details of first plus group item as described in the last table, click Add Row (Fig **3.8 (c))**, the following fields reappear in the next row.
 - > Plus Group Name
 - > Caption
 - > Action ID
 - > Visibility Valid ID
- 7. In these fields, enter the details of new plus group item as described in the last table.
- 8. After you add all plus group items, click **Next (Fig 3.8 (c))**, the **Plus Group** dialog box (**Fig 3.8 (e)**) displays the details of all added plus group items.

Plus Group				
Drop to change Sort Sequen	ice			
Plus Group PLUSGROUP	Caption PLUS GROUP H_	Action ID: 1	Visibility Valid ID	
Plus Group PLUSGROUP	Caption Create Employe	Action ID 87465	Visibility Valid ID :	
Plus Group PLUSGROUP	Caption : View Employee	Action ID	Visibility Valid ID	
Plus Group : PLUSGROUP_	Caption News and Events	Action ID	Visibility Valid ID	
	Plus Group PLUSGROUP. Plus Group PLUSGROUP. Plus Group PLUSGROUP.	Plus Group PLUSGROUP Caption Create Employe	Plus Group PLUSGROUP. Caption PLUS GROUP H. Action ID 1 Plus Group PLUSGROUP. Caption Create Employe. Action ID 87465 Plus Group PLUSGROUP. Caption View Employee Action ID	Plus Group PLUSGROUP Caption PLUS GROUP H Action ID 1 Visibility Valid ID Plus Group PLUSGROUP Caption Create Employe Action ID 87465 Visibility Valid ID Plus Group PLUSGROUP Caption Create Employe Action ID 87465 Visibility Valid ID Plus Group PLUSGROUP Caption View Employee Action ID Visibility Valid ID

< Back		Save Cancel
	(Fig 3.8 (e))	
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9. After you ensure that you have added and configured all plus group items (Fig 3.8 (e)), click Save, the plus group is successfully configured.

After you configure the plus group, you can select the respective plus group while configuring a mobile app screen.

3.8.1 Applying a plus group

To apply a plus group on specific screen:

1. In the Dataon Full Form Definition dialog box (Fig 3.8.1 (a)), locate the Form Plus Group box.

Form Header*	Header2	Back Option"
Personal Details	Please fill following details	PREVIOUS FORM T
Back Option Msg Id	Info Msg On Next Form	Create Action Id
Message Master	Message Master	Create Action
Stop Action Id Create Action	Back Action Id Create Action	Disable Br Rule Id Business Rule
	Drawer Name	Type of Form
Form Plus Group		

(Fig 3.8.1 (a))

2. Click inside the Form Plus Group box, a list (Fig 3.8.1 (b)) of available plus groups appears.

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Form Header*	Headerz	Back Option"	
Personal Details	Please fill following details	PREVIOUS FORM	٠
Back Option Msg Id	Info Msg On Next Form	Create Action Id	
Message Møster	Message Master	Create Action	
Stop Action Id	Back Action Id	Disable Br Rule Id	
Create Action	Create Action	Businoss Rula	
Form Plus Group	Drawer Name	Type of Form	
1	DRAW/ER_HOME	Full Form	
PLUSGROUP_HOME : PLUS GR	Form Gravity / Orientation [Applicable only fi	or POPUP] Show Header [Applicable only for PO	OPUP
PLUSGROUP_2 : PAGE 1	Select	Ves No	

(Fig 3.8.1 (b))

 In the list of available plus groups (Fig 3.8.1 (b)), select the plus group (For example: -PLUSGROUP_HOME: PLUSGROUP) that you want to apply, and then click Save (Fig 3.8.1 (b)), the plus group is selected for the respective screen.

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3.8.2 Assigning Actions to a Plus Group

This function allows you to define an action to a plus group item. After you define the action to a plus group item, you can perform the function on the respective plus group item. The functional behavior of specific plus group item depends on the action that you assign to the respective plus group.

To assign the action to the plus group item:

1. On the **Plus Group** dialog box, locate the **Action ID** field.

USGROUP_HOME	ENROLU	
kction ID	Visibility Valid ID	
Create Action	Business Rule	

(Fig 3.8.2 (a))

2. Under Action ID, click Create Action (Fig 3.8.2), the Task dialog box (Fig 3.8.2 (b)) opens.

Task ID:	110418	Task
search by task	٩	
Api Integration		
Business Rule Validation		
Call Ocr		
Call Print		
Clear Control Data		Please add Task from left panel
Clear Navigation History		
Clear Temp Variable		
Control Disable		
Control Editable		
Control Invisibility		
Control Visibility		
		Save Cancel
		(Fig 3.8.2 (b))

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- 3. In the **Task** dialog box, locate left navigation pane.
- 4. In the left navigation pane, locate the **search by task** box (Fig 3.8.2 (b)).
- 5. In the **search by task** box, enter the name of task (For example: Load New Object) that you want to assign, the left navigation pane displays the name of the task (Fig 3.8.2 (c)).

Task ID: 110418	Task
Load New Object Q	
Load New Object	
	(Fig 3.8.2 (c))

6. Select that task and then click **Save (Fig 3.8.2 (b))**, the task is successfully assigned to the respective plus group item.

Task ID:		Task		
search by task	Q	Added Task		Expand All 🎽
Api Integration		11 Load New Object	The LOAD NEW OBJECT	₫ ~
Business Rule Validation			task is assigned.	
Call Print				-
Clear Control Data				



The following steps describe how to assign the Form Id task to the plus group item.

7. In the search by task box, enter form id, the left pane (Fig 3.8.2 (d) displays the Form Id task.

i.	ask ID: 110418	Task	
form id	٩		
Form Id			
		(Fig 3.8.2 (e))	

(Fig 3.8.2 (e))

8. In the left pane, click the Form Id task (Fig 3.8.2 (e)), the Form Id dialog box (Fig 3.8.2 (f)) opens.

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Navigation Form.id*	Validation Group td	
	Businosa R	ste
Message On Fal	Message On Sucess	
Montage Master	Message Ma	ater
Message Before Process	Message While Process	
Message Master	Message Ma	uter
Stop On Condition Failure	Next Form Type	
© yes @ No	Full Form	5 .



- 9. In the Form Id dialog box, locate the Navigation Form Id box (Fig 3.8.2 (f)).
- 10. Click inside the **Navigation Form Id** box, it displays the list **(Fig 3.8.2 (g))** of the available forms along with their form ID.

rvigation Form Id*	Businees Rula	
1:Home	Message On Sucess	
71014 : Contact Details Submission Form	Select the screen by its form name or form	
83882 : Search Employee	ID that you want the user to open after s/he taps the respective plus group item.	
90010 : News and Events:	Message Manar	
92353 Terms and Conditions	Next Form Type	
The The	Full Form	

(Fig 3.8.2 (g))

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11. In the list of forms, select the desired form, the form ID of the selected form starts appearing.

Navigation Form Id'	Validation Group Id	
75054	Business Pute	
Message On Fail	Message On Sucess	
Mostage Master	Message Master	
Message Before Process	Message While Process	
Message Haster	Hessage Master	
Stop On Condition Failure	Next Form Type	
🔍 yes 🔍 🖲 No	Full Form	*

(Fig 3.8.2 (h))

12. After you select the form, click **Save (Fig 3.8.2 (h))**, the **Form Id** task is successfully assigned to the respective plus group item.



3.9 Displaying List from Database

This section describes how to display the list of database. Displaying list from database means that the corresponding API or database view will execute to fetch the required data from the respective database. Therefore, API or database view will display the data on the screen/page of the mobile app.

It has been extensively discussed in the heading section: <u>Configuring a List</u> that you can display the data in the mobile app list by using two components: **API** or **database view**. Apart from designing the layout of a list in the vDesigner application, technical team implements the code of the API or database view externally. Therefore, you can use these two components to display the list in the mobile app as follows:

Case1:- (API call or invocation)

If you choose to display the list by using REST API, you need bind the API to the UI object (For example: -Submit or View button) that the mobile app user clicks to view the list. On the click of the respective button, you need to configure the API call as a result of load new object. After you configure the API call, the API will execute to fetch the data from database and then store it in the array object.

When user clicks the **Submit** or **View** button, the array type JSON object will display the data in the respective fields in the mobile app.

Case2:- (Using database view)

If you choose to display the list by database view, you need to enter the details of database view when you configure a list in the vDesigner application. In the details of the database view, you need to enter the name of the database view and the name of primary keys that are used to fetch data from the respective data source.

Before discussing these two cases, <u>let's discuss how to bind an API call to a bottom button</u> (For example: - Submit or View) so that when mobile app user clicks the respective button, the API executes to fetch the data and then display it in the list.

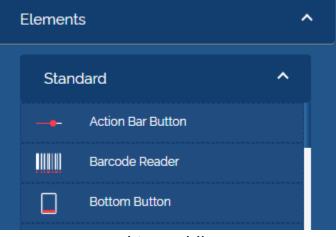
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3.9.1 Configuring API Call on Button

You will configure an API call on the "On Click" event of a button if you choose to display list by using REST API. If you choose the database view to display list on the mobile app, you will not configure the API call on the "On Click" event of a button.

To configure an API call:

1. In the vDesigner application, locate the left navigation pane (Fig 3.9.1 (a)).



(Fig 3.9.1 (a))

- 2. In the left navigation pane, click **Elements** and then click **Standard (Fig 3.9.1 (a))**, the navigation pane expands.
- 3. Under Standard, click Bottom Button (Fig 3.9.1 (a)), the Bottom Button dialog box (Fig 3.9.1 (b)) opens.

2181	Bottom Button	
Labol'	Is Visible © Yes © No	Is Enabled • Yes O No
Business Rule For Visibility	Business Rule For Disable	Control Group
Business Rule	Business Rule	Control Group
+ Add Action		Save Can
+ Add Action	(Fig 3.9.1 (b))	Save Can

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- 4. In the Label box (Fig 3.9.1 (b)), enter the name of button (For example: View).
- 5. In the **Bottom Button** dialog box, click **Add Action (Fig 3.9.1 (b))**, the **Action** dialog box (**Fig 3.9.1 (c)**) opens.



(Fig 3.9.1 (c))

6. In the Action dialog box, click On Click (Fig 3.9.1 (c)); the Task dialog box (Fig 3.9.1 (d)) opens.

Task ID: 112	189	Task	
search by task	Q		
Api Integration			
Business Rule Validation			
Call Ocr			

(Fig 3.9.1 (d))

- 7. In the Task dialog box, locate the Search by task box (Fig 3.9.1 (d)).
- 8. In the Search by task box, enter API integration, the API Integration task (Fig 3.9.1 (e)) starts appearing.

Task	(D 112189	Task	
api integration	۹		
Api Integration			
		(Fig 3.9.1 (e))	

9. Click the API Integration task (Fig 3.9.1 (e)), the Api Integration dialog box (Fig 3.9.1 (f)) opens.

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Api Name Parameter's Mapping	Condition For Api Call Business Rule
Stop On Error If Yes INO	Stop On Condition Failure
Message On Fail Message Master	Message On Success Message Master
Message Before Process	Message While Process
Mossage Master	Message Master

(Fig 3.9.1 (f))

10. In the Api Integration dialog box, click Parameter's Mapping (Fig 3.9.1 (f)), the Data Connect dialog box (Fig 3.9.1 (g)) opens.

	Data Connect	+ Create API Data
Search API Q		
Sce_clusters57673#8.		
Sptbgetcomponentcfg		



- 11. In the **Data Connect** dialog box (Fig 3.9.1 (g)), the left navigation pane displays the list of existing API(s).
- 12. In the Search API box (Fig 3.9.1 (g)), enter the name of API (For example: Identity) that you want to configure.

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		Data Connect	+ Create API Data
Search API	Versions		
Irisenroll	Vl		
Fingerenroll			
Iriscreatetemplate			
Fingercreatetemplate			
Fingeridentity		Please select API and	d Version from left
Insidentity		pane	əl
Getduplicateall			
Getduplicateimagede.			
Duplicaterecords			
Identity >	>		
Test_api			
			Save Cance

(Fig 3.9.1 (h))

- 13. After you locate the API (For example: Identity), click it, the **Data Connect** dialog box displays the version number (For example: v1) of API.
- 14. In the middle pane, click the version number (For example: v1) of the API, the right pane displays two tabs: **Request Parameters** and **Response Parameters**.
- 15. In the right pane, click the **Response Parameters** tab (Fig 3.9.1 (i)), it displays the following fields:
- > API Name
- Name
- Absolute JSON Path
- > Control Id

Request Parameter	s 	Response P	arameters
API Name	▼ Name		
Absolute Json Path	Control		1

(Fig 3.9.1 (i))

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16. In these fields, enter the values as follows:

Field	Description
API Name	Click this list and then select the API (For example: - Identity) (Fig 3.9.1 (j)) that you
	want to bind with the " On Click " action of the bottom button.
Name	In this field, enter the name of response parameter of the API that holds specific
	value that the API fetches from the database.
Absolute JSON	In this field, define the JSON path of entity where the data will be stored. You can
Path	define the JSON path as follows:
	\$.POD.DUPLICATE
	In this JSON path, the keyword: DUPLICATE is the entity that you define by using the Entity And Relationship module. In the JSON path, DUPLICATE is treated as the array type JSON object where entire dataset is stored.
	To know more about entity and the relationship between two entities, visit the heading section: <u>Creating New Entity and Defining Relationship between Entities</u> .

17. After you enter the details of first response parameters of the API, enter the details of next response parameter as described in the heading section.

Search API	Versions	Request Parameters*	Respo	nse Parameters
risenroll Fingerenroll	vi	Mit Name Identity	face_5	
riscreatetemplate Fingercreatetemplate		SPODDUPLICATE	Control Id	۵
Fingeridentity		.det.taree identify	message	
Setduplicateall Setduplicateimagede		\$POD MESSAGE	Contratid	
Duplicaterecords				
dentity l	»<	+ Add Row		

(Fig 3.9.1 (j))

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Note:-

In the screen capture, if you look at the details of the second response parameter: message, you will find that the JSON path is defined as **\$.POD.MESSAGE**. As you can notice that this JSON path does not reference the **DUPLICATE** entity. It references the **MESSAGE** object.

In the **\$.POD.MESSAGE** JSON path, the **MESSAGE** keyword is treated as a simple object, which is declared in the JSON path to store the message string that the **message** response parameter fetches from the data source. The **MESSAGE** keyword is not treated as array type JSON object If you want, you can change the name of **MESSAGE** object to **MESSAGE_1**. It is a simple object, which is used to store random message string.

That is how you define the entity or simple object in the JSON path based on the type of data that you receive in the response from API.

- 18. To enter the details of next response parameters, click Add Row (Fig 3.9.1 (j)) and then enter the details of parameter as described in the last table.
- 19. After you enter the details of all parameters, click **Save (Fig 3.9.1 (j))**, the **Data Connect** dialog box is closed.
- 20. In the API Integration dialog box, click Save, the API Integration dialog box is closed.
- 21. In the Task dialog box, click Save, the Task dialog box is closed.
- 22. In the Action dialog box, click Save, the Action dialog box is closed.
- 23. In the **Bottom Button** dialog box, click **Save**, the API is successfully configured with the "On Click" action of the button.

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3.9.2 Configuring List with API

If you want to configure a list with an API call, you need to define the <u>name of object</u> where the data is stored after respective API fetches the data from the database and the array type JSON object that holds the data to display it in the list.

To configure the list:

1. On vDesigner application's dashboard, locate the left navigation pane.



(Fig 3.9.2 (a))

2. In the left navigation pane, click **Configure Landing Page**, the navigation pane expands.

Configure Landing Page	^
Dashboard	
Card	
List	

(Fig 3.9.2 (b))

3. Under **Configuring Landing Page (Fig 3.9.2 (b))**, click **List**, the **List View** dialog box **(Fig 3.9.2 (c))** opens.

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				-
	ADF0987654325 Subhlakshrvi Chatdra L, ett billetilstell (* 500KM § 30.61ew (* 1130 AM	Prafull Singh Account Account	Account	Activer for the set of
Header*	Object 7	ype*	Api Name	
Duplicate List	DUPL	DUPLICATE		
Vw Name L		st Array Path	Primary Key 1	
	\$POD		id	
Primary Key 2	Primary	Key 3	Lv Plus Group	
id	kd			

(Fig 3.9.2 (c))

4. In the **List View** dialog box, enter values in the respective boxes as follows:

Box	Description
Header	In this box, enter the name/title (For example: - Duplicate List) of the list.
Object Type	In this box, enter the name object (For example: - DUPLICATE) where the data is stored after it is fetched from the database.
	Note:- In the Object Type box, you enter the name of object (Fig 3.4.2 (d)) that you create in the Entity & Relationship module. If you enter any random name in the Object Type box, the list will not display the data. First you need to create the object by using Entity and Relation module and then use this object when you configure the list.
LV Object Array Path	In this box, define the array of the DUPLICATE object that you have defined in the Object Type box. You can define the array as follows: \$.POD.DUPLICATE[*] The path: \$.POD.DUPLICATE[*] is the path of the Duplicate object. In this path of array, the asterisk (*) character that is enclosed by bracket works as a common loop. When the data is fetched, it reads the data from 0th index and picks the entire record set of data and treats it as a single object. It moves through each index consecutively and picks other records of data.

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Primary	In these boxes, enter the variable (For example: - ID) (Fig 3.9.2 (d)) that you have
Key1/Primary	declared when you created the object in the <u>Entity and Relationship</u> module. You
Key2/ Primary	will use this variable if you are fetching the data by using array object.
Кеу3	

	Entity & R	elationship	
	Entity	Relationship	*
Please Provide below details to create an entity	POD	DUPLICATE	
Entity Name' DUPLICATE			
Primary Attribute" S PODDUPLICATELLD	0 🛙	e 🔟	
PKID Group Name" DUPLICATE	This object, DUPLICATE, v		
Update Entity	module, can be used to sto that is fetched to display	re the data	
	/Fig 2	9.2 (d))	

(Fig 3.9.2 (d))

After you configure the list, you need to define the card where the data of the list is displayed.

3.9.2.1 Define Card

You define the card to determine the layout in which the list displays the data.

To define the card:

To define the card, perform the function as follows:

1. In the List View dialog box (Fig 3.9.2.1 (a)), locate upper panel that contains the card templates.

D: 107496	List View			
Select Template'	MF998764221 Subliakter Danta C. er messelli g. more S. teller B. tolse	Padul Singh Account Account	Account	ADFORMULATI Subscience (Tourise Semantics) = 0 (Social Semantics) =

(Fig 3.9.2.1 (a))

2. After you select a card template (Fig 3.9.2.1 (b)), the Define Card link appears.

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	ACF0987654221 Subhiskshmi Chardra C, Hritemanne @ 255cH S, Sector 0 100.04	Prafull Singh Account Account	Account	ADVERSINGLASS Buildingsteit (Dennin Schmanzen: 2 States Schmanzen: 2 States Schmanzen: 2 States Schmanzen: 2 States Schmanzen: 2 States	
Header*	Object 1	lype*	Api Name	L	
Duplicate List	DUPL	DUPLICATE			
Vw Name	Lv Obje	ct Array Path	Primary Key 1		
	SPOR	SPOD.DUPLICATE!'I		id	
Primary Key 2	Primary	Primary Key 3			
ld	id	id			

(Fig 3.9.2.1 (b))

3. Click the **Define Card** link, the **Define Card** dialog box (Fig 3.9.2.1 (c)) opens.

	Defi	ne Card		
Template Selected	Card	p2	Actions	
V_REF_KEY_1 V_REF_KEY_2	V_Ref_Key_1 Administration	Companient Label Encounter Id	Component Icon	
Черницика ≡ клаганск ≡ краганска ∎ клаганска = чунискиха ∎ клаганска = чунискиха	Failure Attribute Id	Show Label Yes	▼ Is Searchable ▼	
	BR Validation Id Business Rule			
	V_Ref_Key_2 Attributes to pct	Companient Label Percentage	Component Icon	
	Exture Attribute Id	Show Labert Yes	Is Searchable Done	
			Save Cance	

(Fig 3.9.2.1 (c))

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- In the Define Card dialog box (Fig 3.9.2.1 (c)), the Card tab displays fields (For example: ID, Component Label, etc.) for different variables/key (For example: - V_Ref_Key_1 or V_Ref_Key_2).
- 5. In the respective fields, enter values as follows:

Box/List	Description
Attribute ID	In this field, enter the attribute ID (Fig 3.9.2.1 (c)) (For example: - ID or PCT). In the attribute ID, the list holds specific value and then displays it in the corresponding label on the card of mobile app.
	Note:- In the Attribute ID field, enter the value that matches the name of key/attribute that you receive in the response after the data is fetched from the respective data source.
	For instance: - If you are receiving the name of a person in the Name key/attribute in the output of the API, enter Name in the Attribute ID box.
	If the value in Attribute ID field does not match the key name or attribute name in the response of the API, list will not display the data.
Component	In this box, enter the name of label (For example: - Encounter ID or Percentage). The
Label	list will display the data along with the label.
Show Label	Click this list to select Yes so that the list displays the name of label in addition to label's value.

- 6. For the next variable V_Ref_Key_2, enter the details of Attribute ID, Component Label and the Show Label fields as described in the last table.
- 7. After you enter the details of all required variables, click the **Action** tab.
- 8. In the **Action** tab, configure action as follow:

3.9.2.2 Configuring Action on Card

This function allows you to configure an action on the list of the card. You can configure the action on the list horizontally or vertically. You can incorporate a phone book, delete function, and other usable action items.

To configure an action on the list:

- 7. In the **Define Card** dialog box, click the **Action** tab **(Fig 3.4.2.2 (a))**, the **Define Card** dialog box displays the group of the following fields:
- > Action Sub Type
- > LV Action Type
- Image Icon
- > Action ID

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Card'		Actions	
Action Sub Type "	•	LV Action Type"	
Image Icon'		Action ID	
		Create Action	
	Action Sub Type -	Action Sub Type *	Action Sub Type · · · EV Action Type · · · · EV Action Type · · · · · · · · · · · · · · · · · · ·

(Fig 3.9.2.2 (a))

8. In these fields, enter values as follows:

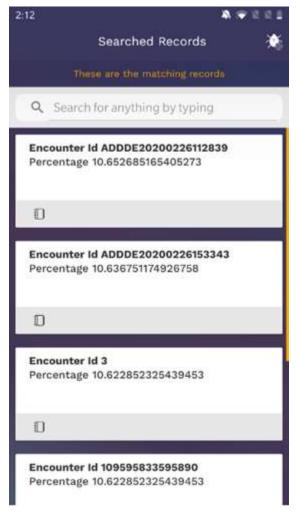
Field	Description
Action Sub Type	Click this list to select:
	HAB if you want to place action items along the horizontal bar.
	VAB if you want to place action items along the vertical bar.
LV Action Type	In this box, enter the name of action item (For example: - Edit, Delete, Info, etc).
Image Icon	In this box, enter the name of icon that is displayed in the list. The icon
	denotes the respective action item.
	For instance: - For the icon of the delete function, enter: ic_drop . For the
	icon of edit function, enter: ic_appointment.
	These icons are available on the Vahana server.
Action	You can click Create Action to apply the task on the icon of specific action
	item. For example:- You can apply the the Delete Current Child Object task
	that deletes currently selected element after the user taps the Delete icon in
	the card template.

- 9. After you configure one action item, click **Add Row** to configure the next action item as described in the last table.
- 10. After you enter configure the card template and necessary action items that you want to display on the card, click **Done (Fig 3.9.2.2 (a))**, the **Define Card** dialog box is closed.
- 11. In the List View dialog box, click Save, the list is successfully configured.

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When you configure the list with API, define card lay out to display the list's data, you need to migrate the component on the vDesigner application and then sync the mobile app by accessing the Environment module on the Vahana platform.

When user clicks the corresponding button (For example: - View or Submit), the mobile app display the list in the card layout (Fig 3.9.2.2 (b)).



(Fig 3.9.2.2 (b))

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3.9.3 Configuring List with Database View

If you choose to display a list with database view, you will provide the details of the database view while configuring a list. In the configuration details of the list, you need to provide the name of the database, name of object/object type that stores list data, and primary keys of database view. These primary keys are used to fetch the data from the data source.

To configure the list with database view:

1. On vDesigner application's dashboard, locate the left navigation pane.

Configure Landing Page	^
Dashboard	
Card	
List	

(Fig 3.9.3 (a))

2. In the left navigation pane, click **Configure Landing Page** and then click **List**, the **List View** dialog box **(Fig 3.9.3 (b))** opens.

3180	List View			
ect Template"	Subhalashni Chardra L, er Heiselbol (2) 2004 B, Indian (2) 2004	Prubil Singh - Account Account	Account	APPORTURATION Sublication Charles Commences and States and Application Commences States and Application States and
Header*	Object	'ype'	Api Name	
Vw.Name	Lv Objev	ct Array Path	Primary Key 1	
Primary Key 2	Primary	Key 3	Lv Plus Group	
Draumr Marna	Filter Re	scinaes let	Allow Const	Save Car

(Fig 3.9.3 (b))

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3. In the List View dialog box, enter the configuration details (Fig 3.9.3 (c)) as follows:

Вох	Description
Header	In this box, enter the name of the list (For example: - Pending List) (Fig 3.9.3 (c)).
Object Type	In this box, enter the name of database object (For example: - OBJECT_TYPE) (Fig 3.9.3 (c)). It stores the data that the database view fetches from the data source.
	Note:- If you do not know the name of object that you want to enter in the Object Type box, you need to enquire the name of object of the database view from the database team.
Vw Name	In this box, enter the name of database view (For example: - vw_pending_assessment_data). The database view holds the data that it displays in the list.
Primary Key1/Primary Key2/Primary Key3	In these boxes, enter the name of primary key (For example: - PRIMARY_KEY_1, PRIMARY_KEY_2, PRIMARY-KEY_3). These primary keys are used to fetch the data from the data source where the data is stored.

ect Template"		() (
ADDOXTORCELL BACKBARDE CENTRE Summer	ADF0987554221 Subhlakshmi Chandra L, Hit bilbibili () 200431 B, Telektew () TIDI AM	Prafull Singh Account Account	Account	ADVORTMENT
Header*	Object 1	'ype'	Api Name	
Pending List	OBJEC	CT_TYPE		
Vw Name	Lv Objec	st Array Path	Primary Key 1	
vw_pending_assessment_data			OBJECT_PRI_KE	Y_1
Primary Key 2	Primary	Key 3	Lv Plus Group	
OBJECT_PRI_KEY_1	OBJEC	CT_PRI_KEY_1		
Drawer Name		icinece Irl	Allow Copy?	

(Fig 3.9.3 (c))

After you configure the list, you need to define the card. To define the card, you select specific card template that determines the card lay out in which the list displays the data.

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3.9.3.1 Define Card

To define the card and then define action items in the card, visit the heading section: <u>Define Card</u>. You can use the values of the following screen captures while defining a new card:

107539		List Vie	Thi	is card has been selected.	
elect Template*	((Conserver)		selected.	
Conserver Statute Conserver Statute Conserver Statute Statute Statute	AOF0987654221 Subhildshrii Chardra L. HTIMBBIB145 E. 2004/II S. Techtor O. TODAH	Prafull Singh Account Account	-	Account O	Reinforderbeit Dierrite Stationale auf Barrier Stationale auf Barrier Stati

(Fig 3.9.3.1 (a))

Template Selected	Card"		Actions
REF_KEY_1 REF_KEY_2	V_Ref_Key_1 Additione of assessment_name	Component Laber Name:-	Component Icon
v.,HEF,HEV,A BV.,HEF,HEV,A BV.,HEF,HEV,S V.,HEF,HEV,G GV.,HEF,HEV,J GV.,HEF,HEV,B	Failure Attribute Id	Show Label Yes 👻	Is Sortable 👻
	Is Searchable 🔹	BR Validation Id	

(Fig 3.9.3.1 (b))

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	Define (Card	
Template Selected	Card*		Actions
V_REF_KEY_1 V_REF_KEY_2 ℃ V_REF_KEY_2 ℃ V_REF_KEY_3 ■ V_REF_KEY_5 ● V_REF_KEY_5 ● V_REF_KEY_5 ● V_REF_KEY_5	V_Ref_Key_2 Attituate id email_id Failure Attribute id	Correctionent Labert Email-ID:- These Labert Yes	Component Icon
	Is Searchable 👻	BR Validation Id Business Rule	2
	V_Ref_Key_3	Companient Label Mobile No-	Component Icon

(Fig 3.9.3.1 (c))

	Define Ca	ard	
Template Selected	Card*		Actions
V_REF_KEY_1	Active Stati Type" VAB	SINGLE CLICK	
V.REF_KEV_2 V.J.MEF_KEV_3 N.J.MEF_KEV_3 N.J.MEF_KEV_3 N.J.MEF_KEV_3 N.J.MEF_KEV_3 N.J.MEF_KEV_3 N.J.MEF_KEV_2 N.J.MEF_KEV_2 N.J.MEF_KEV_2 N.J.MEF_KEV_3 N.J.MEF_	tinage loov' NA	Action ID	Û
Here you can configure an action item on the card template.		107605	C

(Fig 3.9.3.1 (d))

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Upcomin	g Assessments	
Q Search for any	/thing by typing	
Name:- QA Assessm Email ID:- prafull.sir		The database view displays the list in the mobile app.
8130366230	UPCOMING	
Start date 2020-04-23	Valid till 2020-05-29	

(Fig 3.9.3.1 (e))



3.10 Configuring Hamburger Drawer

In mobile apps, hamburger drawer is a well-known feature that is prevalently used to add multiple features and functionality in orderly manner. Hamburger drawer is also referred to as Hamburger menu. In mobile apps, three horizontal parallel lines () are used as the icon of the Hamburger menu.

Under Hamburger menu, you can add multiple features and functions. A few functions can be very common among enterprise mobile apps such as My Profile, 24X7 Help, Terms and Conditions, Change Password, Log out, and others. Apart from these common features, you can add other functions based on the type of mobile app and the segment in which mobile app serves to the end-user.

Adding functions to Hamburger drawer depends on the navigation model that the mobile app developers design and develop to make the mobile app more interactive and easily accessible. Hence, the hamburger menu can includes from very frequently accessed features to other unique features that the mobile app user hardly finds to search and use.

When you tap the icon () of the Hamburger menu, it expands and displays all added features in specific order.

To configure Hamburger menu:

1. In the vDesigner application, locate the left navigation pane.

Add Screen	+
Configure Landing Page	~
Elements	~
Modules	~
(Fig 3.10 (a))	

2. In the left navigation pane, click **Modules** and then click **Hamburger Drawer**, the **Hamburger Drawer** dialog box (Fig 3.10 (a)) opens.

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	Hamburger Drawer	
Drawer name' DRAWER_HOME	Menu Item caption name"	
Section_sort_seq	Intege icon	
Count query	Action ID Create Action	
Visibility Valid ID		
Business Rule		
+ Add Row	Next	Cancel



Note:-

The vDesigner application provides DRAWER_HOME as a default inbuilt drawer. You can either desirably use the **DRAWER_HOME** hamburger menu on different pages of the mobile app, or you can create a new hamburger menu.

3. On the Hamburger Drawer dialog box, enter values in the respective boxes as follows:

Field	Description
Drawer name	In this field, you can perform any of the following functions:
	If this field contains the value: DRAWER_HOME and you want to use the
	DRAWER_HOME hamburger. You need not to change value. If you want to create a new hamburger drawer, enter the name of new hamburger menu ((For example: - DRAWER_LOANAPP).
	If you add second or any other menu item, this field displays blank value. To use inbuilt drawer, enter DRAWER_HOME. To use new hamburger drawer,
	enter the name of new hamburger menu (For example: -
	DRAWER_LOANAPP).
Menu Item	In this field, enter the name of the menu item (For example: - Change Password
Caption Name	or My Profile). The name of the menu item is displayed under the hamburger
	menu.
Section_sort_seq	In this field, enter the order number of menu item. For Example:- In the
	Section_sort_seq box, if you enter 4, the hamburger menu will display the
	respective menu item as 4 th menu item from the top of the hamburger menu.

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Image	In this box, enter the name of icon that you want to use as the icon of the respective menu.		
	Note:- Different icons that you can use for menu items are stored on the Vahana server.		
Action ID	You can use this function to assign an action to the menu item. After you assign the action to the menu item, you can perform the desired function based on the action that you have assigned.		
	How to assign the action to the hamburger menu, visit the heading section: Assigning Action to Hamburger Menu.		
Visibility Valid ID	You can use this feature to apply the visibility rule to the menu item. If the		
	visibility business rule satisfies, only then the menu item will become visible.		
	To apply the business rule:		
	1. Click Business Rule, the Rule ID dialog box (Fig 3.10 (c)) opens.		
	2. In the upper box, enter the business rule.		
	3. After you enter the business rule, click Submit BRE , the business rule is successfully applied.		
	Though, this feature is optional. If you do not want to apply the business rule, you need not to click Business Rule .		



(Fig 3.10 (c))

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- 4. After you enter the values in the respective boxes and assign action to the respective menu item, click Add Row (Fig 3.10 (b)), the Hamburger Drawer dialog box displays another row of the following fields:
- > Drawer name
- Menu Item Caption Name
- Section_sort_seq
- Image icon
- > Count query
- Action ID
- > Visibility Valid ID
- 5. In these fields, enter the details of another menu item as described in the last table.
- 6. After you add all menu items to the hamburger menu, click **Next**, the **Hamburger Drawer** dialog box displays the list of added menu items, in addition to the details of each menu item.

1	Drawer Name DRAWER	Caption Name : Sign Out	Action ID 92230	Visibility Valid ID	
1	Drawer Name DRAWER_	Caption Name Terms an	Action ID 92361	Visibility Valid ID	
1	Drawer Name DRAWER_	Caption Name : Sync	Action ID: 93238	Visibility Valid ID	

(Fig 3.10 (d))

7. After you make sure that you have added menu items correctly, click **Save (Fig 3.10 (d))**, hamburger drawer is successfully configured.

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3.10.1 Adding Action to Hamburger Drawer

Under hamburger drawer, you assign an action to the hamburger menu item to impart functional behavior to it. After an action is assigned to the hamburger menu item, it performs the function based on the action that is assigned to it. The action is assigned to the menu item based on the functional requirement of that menu item. You can assign an action to the menu item as follows:

To assign the action:

1. On the Hamburger Drawer dialog box (Fig 3.10.1 (a)), locate the menu item to assign an action to it.

H H	lamburger Drawer	
Drawer name" DRAWER_HOME	Menu item caption name' Log Out	
Section_sort_seq 5	Insge icon logout	<u> </u>
Count query	Action ID	
	Create Action	
Visibility Valid ID		
Business Rute		
+ Add Row	Next	Cancel

(Fig 3.10.1 (a))

 After you locate the menu item (For example: - Log Out), click Create Action (Fig 3.10.1 (a)), the Task dialog box (Fig 3.10.1 (b)) opens.

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Task ID	114278	Task
search by task	Q	
Api Integration		
Business Rule Validation		
Call Ocr		
Call Print		
Clear Control Data		Please add Task from left panel
Clear Navigation History		
Clear Temp Variable		
Control Disable		
Control Editable		
Control Invisibility		
Control Visibility		
		Savo Cancel

(Fig 3.10.1 (b))

3. In the **search by task** box (Fig 3.10.1 (b)), enter the name of task (For example: - Logout) that you want to assign, the left pane displays the task.

Te	isk ID: 114278		Task
logout	٩		
Logout		Click this task to assign it to the Log Out menu item.	
		(Fig 3.10.1	L (c))

4. In the left pane, click the task to select it, the **Logout** dialog box (Fig 3.10.1 (d)) opens.

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	Logout
Validation Group Id Business Rula	Stop On Condition Failure
	Save Car

(Fig 3.10.1 (d))

5. On the Logout dialog box, click Save (Fig 3.10.1 (d)), the Logout task is successfully assigned to the Log Out menu item.

Drawer name' DRAWER_HOME	Menu Item caption name" Log Out		
Section_wort_weq 5	Image Icon logout		
Count query	Action ID 63558	O	
Visibility Valid ID Business Rule	The Logout task is assigned to the Log Out menu item.		

(Fig 3.10.1 (e))

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Likewise, you can apply other tasks based on the functional requirement of specific menu item. A few tasks are briefly described as below:

Task	Description
Exit	You can apply this task to exit the application. To apply the Exit task:
	1. In the search by task box, enter exit to search the Exit task.
	2. In the left pane, click Exit , the Exit dialog box opens.
	3. In the Exit dialog box, click Save , the Exit task is successfully assigned.
Form ID	This task is frequently assigned to the hamburger menu item if you want the user to navigate to specific screen or page of the mobile app. In this case, the form ID of the respective page is mapped to the hamburger menu item.
	To apply the Form Id task:
	1. In the search by task box, enter form id to search the Form Id task.
	2. In the left pane, click Form Id, the Form Id dialog box opens.
	3. In the Form Id dialog box, click in the Navigation Form Id box, it displays the list of existing forms, in addition to the form Id.
	4. Locate the name of the form that you want to map to the hamburger menu item.
	5. After you locate the form in the list, select it, the name of form is displayed in the Navigation Form Id box.
	6. Click Save, the form is successfully mapped to the menu item.
Reload App Config	Though this task is assigned to reload configuration settings of an application, you can assign this task to a hamburger menu item if you want to provide this feature to the user. After user clicks a menu item to reload the configuration of the app, the Reload App Config task executes to load the latest configuration of the mobile app.
	To apply this task: In the search by task box, enter reload app config to search the Reload App Config
	task.
	In the left pane, click Reload App Config, the Reload App Config dialog box opens.
	On the Reload App Config dialog box, click Save, the Reload App Config task is assigned to the menu item.

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3.10.2 Applying Hamburger Drawer on Form

While adding multiple menu items to the hamburger drawer, you can desirably have two choices: either you can use default DRAWER_HOME hamburger, or you can create a new hamburger. After you design a hamburger menu by adding new menu items to it and then assigning actions to each of the menu items, you can use the hamburger menu on different pages of the mobile app. To display a hamburger menu on specific page of the mobile app, you need to apply the hamburger menu on the form of the respective screen/page:

You can apply the hamburger menu on the form as follows:

1. In the vDesigner application's dashboard, locate the right pane.

Add Screen	÷
Configure Lending Page	
Dementa	
Modules	



- 2. In right pane, Move the mouse pointer on the name of the form (For example: Home) where you want to apply the hamburger menu, three icons appear.
- 3. Click the edit icon (**C**), the **Dataon Full Form Definition** dialog box opens.

Form Header'	Headerz	Back Option'	
Home		HOME	٠
Back Option Msg Id	Info Msg On Next Form	Create Action Id	
Massage Master	Message Master	Create Action	
Form Plus Group	Drawer, Name	Type of Form	
South E date can be a	DRAWER_HOME	Full Form	٠
Form Height (In 10 IApplicable only for POPUP)	Form Gravity / Orientation (Applicable only for POPUP)	Show Header (Applicable only for POPUP)	
council milling and a substantian and unit of and		@ Yes @ No	

(Fig 3.10.2 (b))

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- 4. On the Dataon Full Form Definition dialog box, locate the Form Plus Group box (Fig 3.10.2 (b)).
- 5. Click in the Form Plus Group box, a list displays existing plus groups (Fig 3.10.2 (c)).

PLUS	GROUP_HOME : PLUS G	2
PLUS	GROUP_HOME : Create E	
PLUS	GROUP_HOME : View En)
PLUS	GROUP_HOME : News ar	ì
UIIIrus	aioup	_

(Fig 3.10.2 (c))

- 6. In the list, click to select the plus group that you want to apply on the respective form.
- 7. After you select the plus group, click **Save (Fig 3.10.2 (b))**, the plus group is applied on the form.
