
User Guide Mobile Action v2.2

2024-04-04

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1 Introduction

Mobile Action provides a highly secure fully integrated with IFS Applications, automating the service management process. Using QR codes on all equipment objects, personnel can easily access information, document, repair/maintain, and report status back to process owners. External personnel use a separate secure App, accessing only secured information.

By using the Mobile Action Web Admin application, Users can maintain Customers, Users, Themes, Document Management, Applications, Pages, Risk Libraries and Presentation Objects.

1.1 Architecture

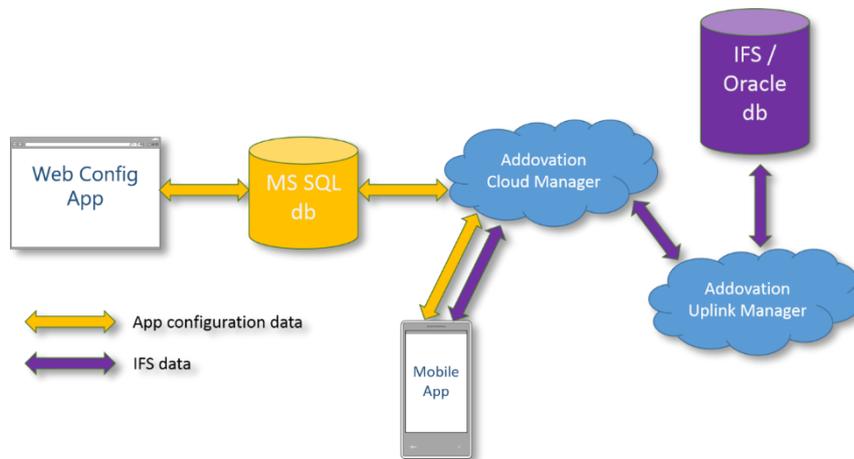


Figure 1: High level architecture

1.2 Application Configuration Flow

Users can create many applications & each applications can have several pages. Also, each page can have several rows but Maximum two columns for each row. After adding a row or column to the application, users can drag tools (columns, textboxes, labels, buttons or panels) to each & every row or column.

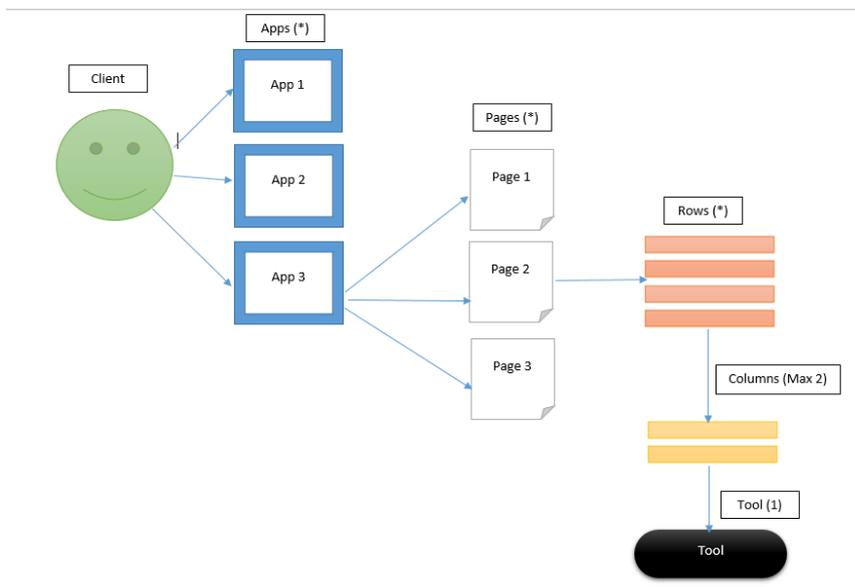


Figure 2: Application configuration flow

2 Settings

2.1 Customers

Click 'Settings' → 'Customers' to navigate to the customer list

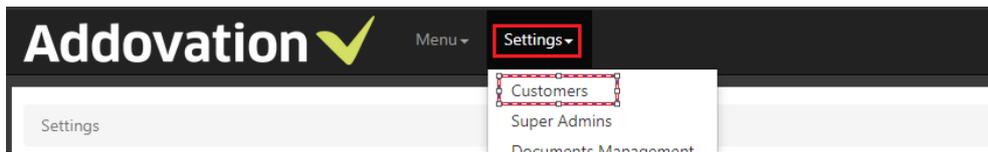


Figure 3 : Navigate to customers

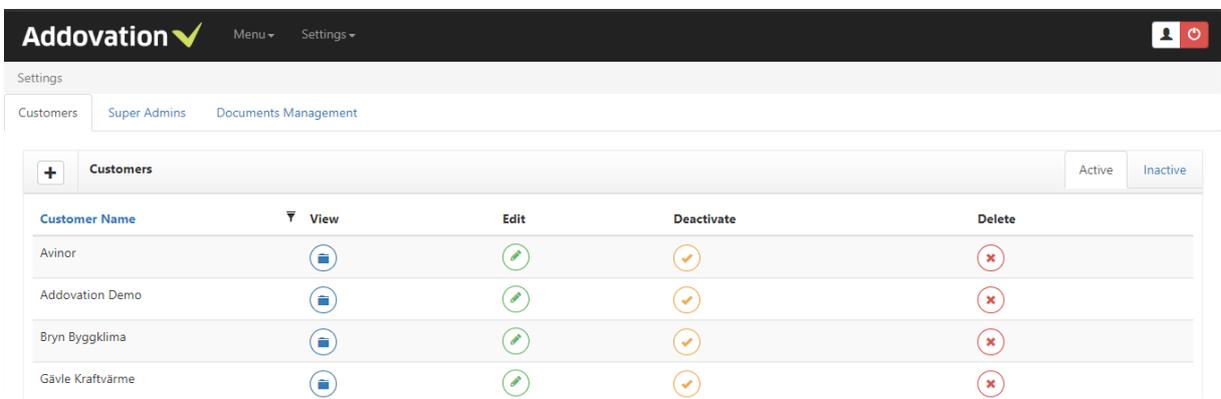


Figure 4: Customers list

Super Admin/Admin can create, update, delete, active/de active customers.

➤ Create New Customer

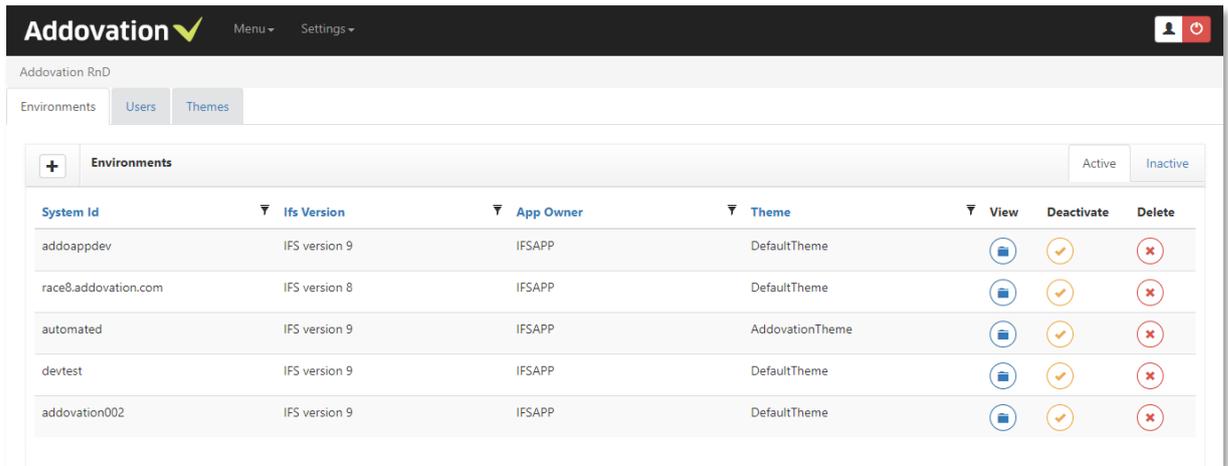
By clicking '+' button in the header and provide 'Customer Name' and click on 'Create' button to create a new customer.



Figure 5: Create Customer

➤ View Customer

Click on the 'View' button to view customer details including Environments, Users, Themes etc..).



System Id	IFS Version	App Owner	Theme	View	Deactivate	Delete
addoappdev	IFS version 9	IFSAPP	DefaultTheme			
race8.addovation.com	IFS version 8	IFSAPP	DefaultTheme			
automated	IFS version 9	IFSAPP	AddovationTheme			
devtest	IFS version 9	IFSAPP	DefaultTheme			
addovation002	IFS version 9	IFSAPP	DefaultTheme			

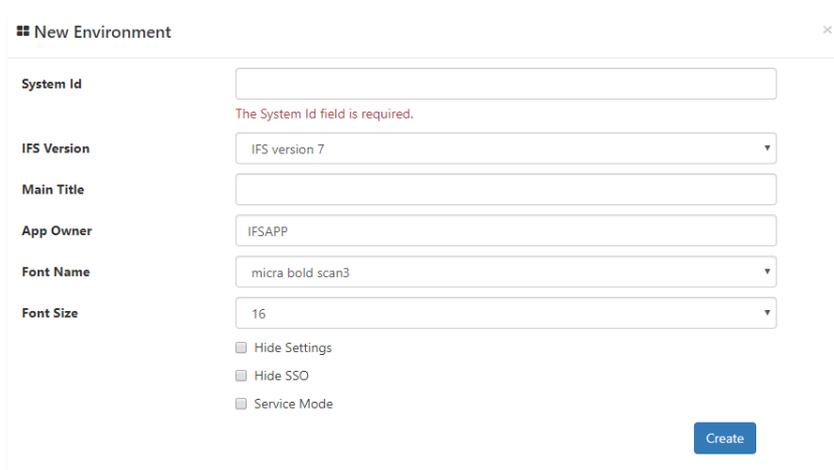
Figure 6: Customer details

2.1.1 Environments

Customers may have environments. Only the Super Admin/Admin can create, delete, activate/de-activate environments.

➤ Create New Environment

By clicking ‘+’ button in the header and provide system Id(mandatory), IFS version, Main Title, App owner, Font details (Font Name, Font Size), Hide settings, Hide SSO, Service mode and click on ‘Create’ button to create an Environment.



New Environment

System Id: The System Id field is required.

IFS Version:

Main Title:

App Owner:

Font Name:

Font Size:

Hide Settings

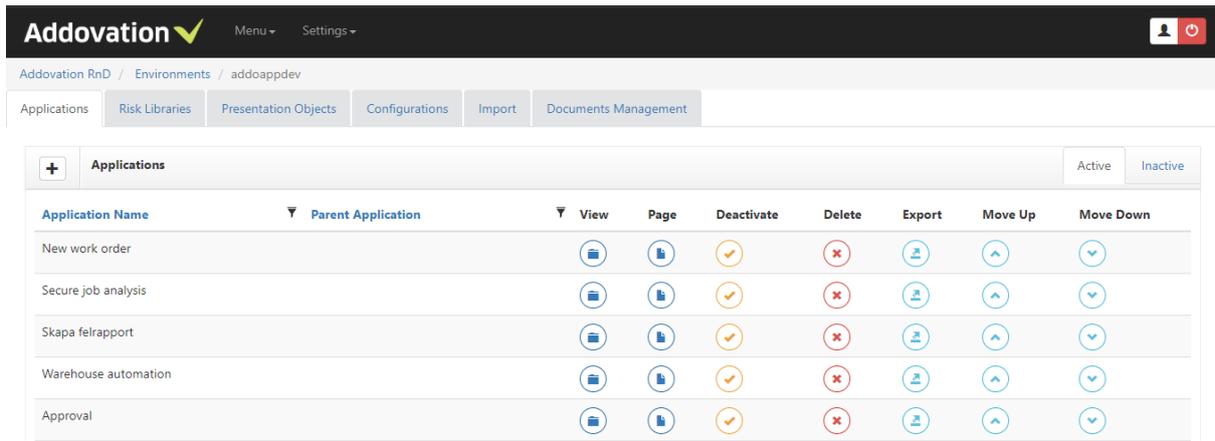
Hide SSO

Service Mode

Figure 7: Create environment

➤ View Environment

Click on the ‘View’ button of an environment, to navigate to the environment details. An Environment may have **Applications, Risk Libraries, Presentations Objects**. (Functionalities are discussed later in the document).

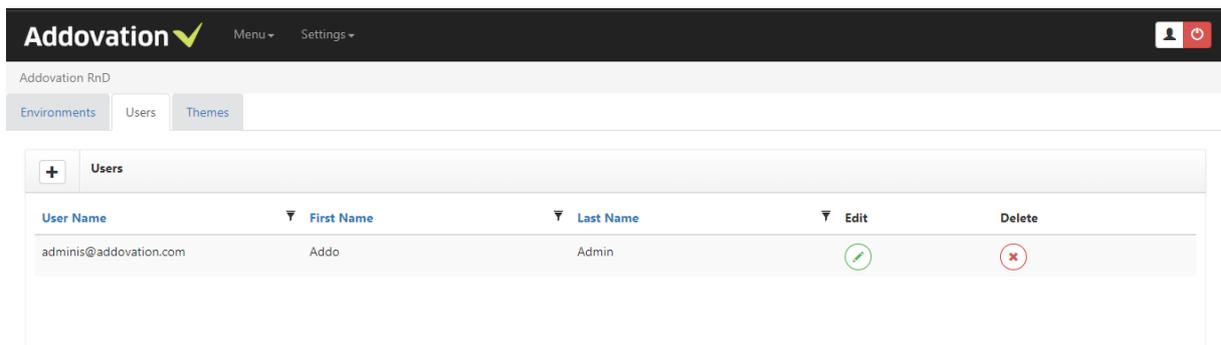


Application Name	Parent Application	View	Page	Deactivate	Delete	Export	Move Up	Move Down
New work order								
Secure job analysis								
Skapa felrapport								
Warehouse automation								
Approval								

Figure 8: Environment details

2.1.2 Users

Customer may have users. Super Admin/Admin can add, edit, delete users.



User Name	First Name	Last Name	Edit	Delete
adminis@addovation.com	Addo	Admin		

Figure 9: User list

➤ Create New User

Click on the '+' button in the header and provide

- User Name (mandatory) – user name should contain @ and .com (ex: addovation@abc.com).
- First Name
- Last Name
- Password- Password should contain characters, numbers and at least one special character (ex: Pa\$\$word123)
- Confirm password
- User role (Admin, Super user, user)
- User environment (which related to the customer)

and click on 'Create' button will create a user.

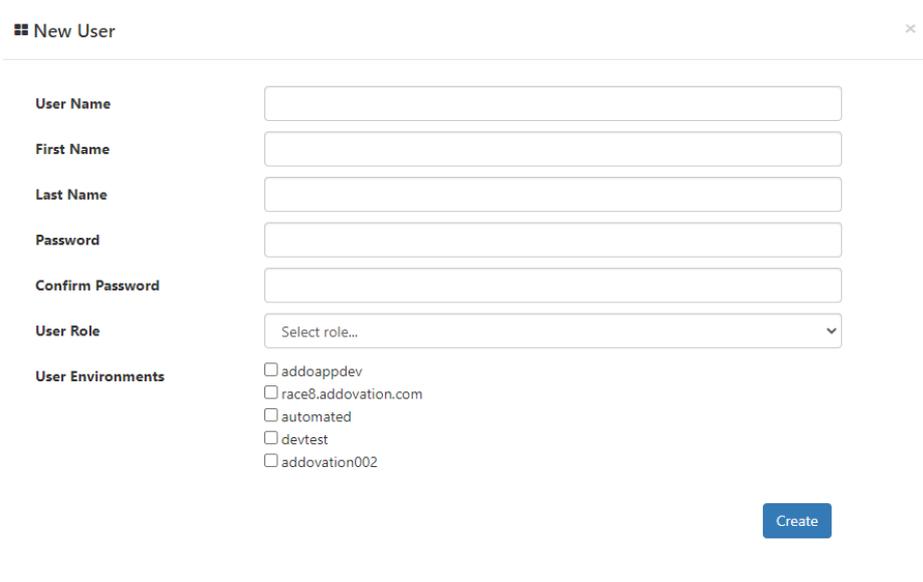


Figure 10: Create new user

2.1.3 Configurable Themes

Customers can create and design theme/s to use in the mobile client.

Go to the 'Themes' tab by Clicking the 'Menu' dropdown & click on the specific customer (e.g.: Addovation')

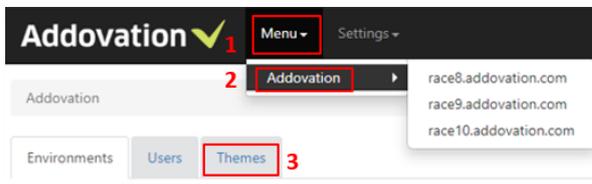
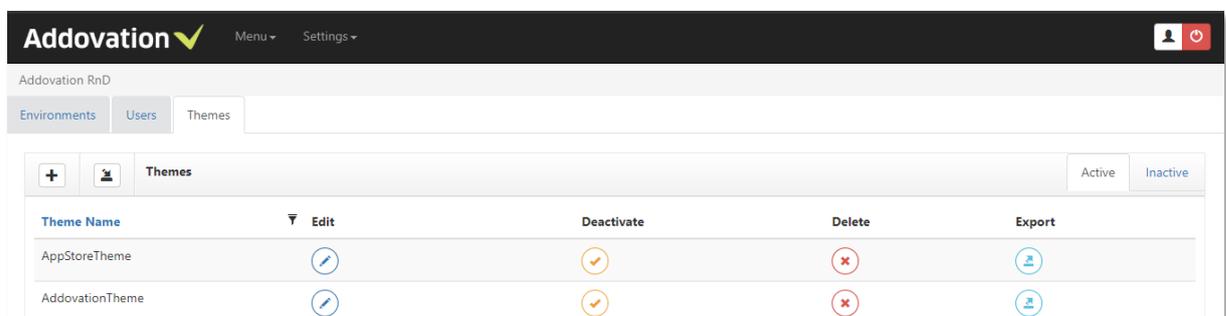


Figure 11: Themes tab

Using Themes tab, user can Edit, Deactivate, Delete, Import & Export themes.



Theme Name	Edit	Deactivate	Delete	Export
AppStoreTheme				
AddovationTheme				

Figure 12: Theme list

➤ Create New Theme

By clicking on '+' button you can go to the create and theme design page.

Provide the Theme Name & change the theme configurations on each tab. (Splash, Loading, Login, Menu, Tools, Icons etc...) & click 'Save'.

Initially it displays default values for each property. User can have the option to edit them as they need.

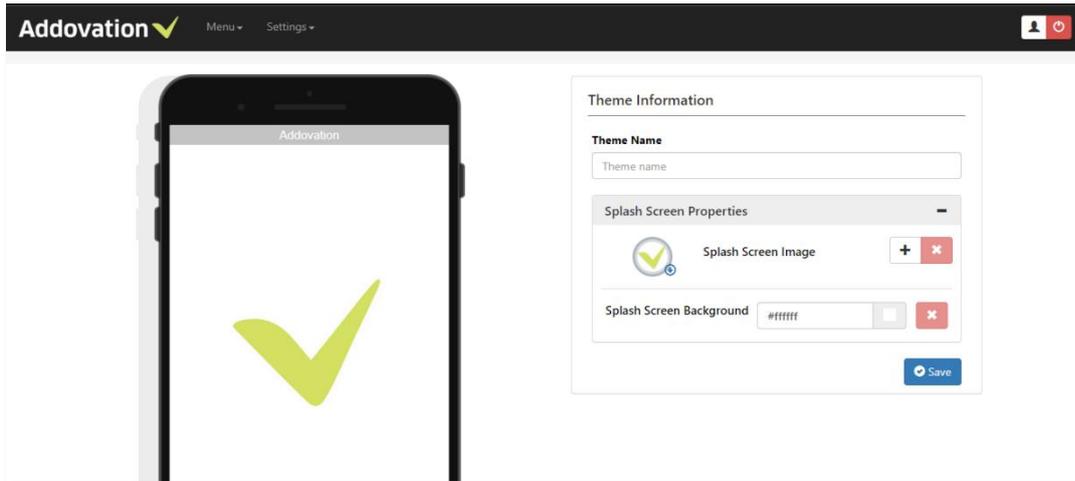


Figure 13: Create new theme

2.1.3.1 Theme properties

➤ Splash screen

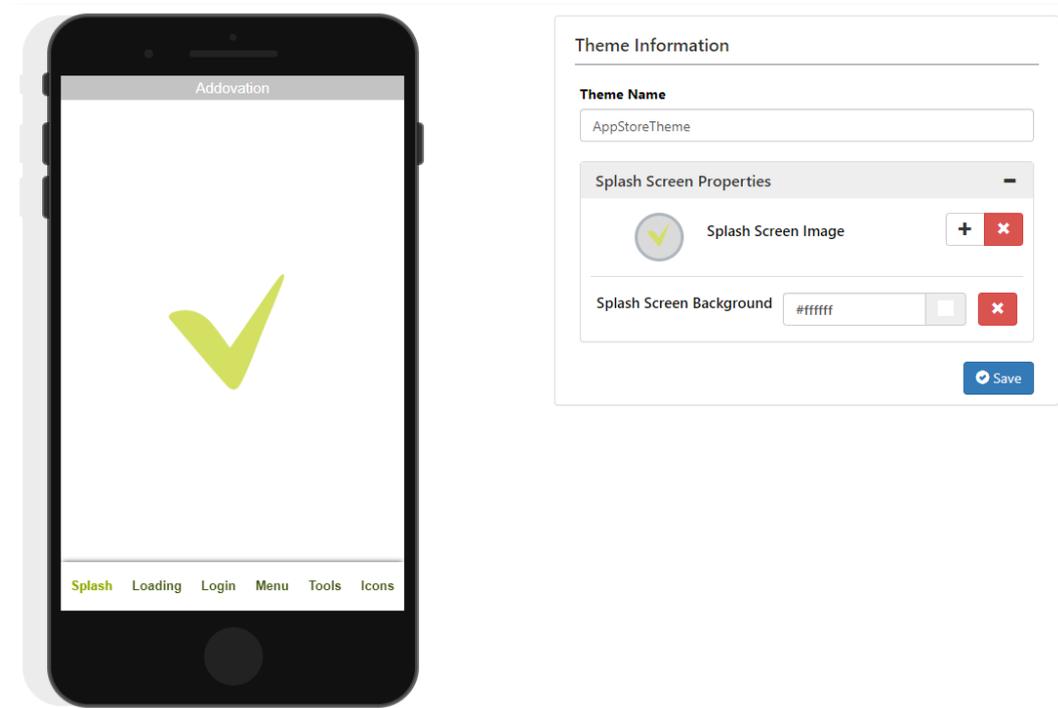


Figure 14: Splash screen

- *Theme Name*: To provide a new name or edit an existing name of the theme.
- *Splash Screen Image*: To set up an image to load as a splash when loading the application in the mobile.
- *Splash Screen Background*: To set up a color to the splash screen.

➤ Loading Screen

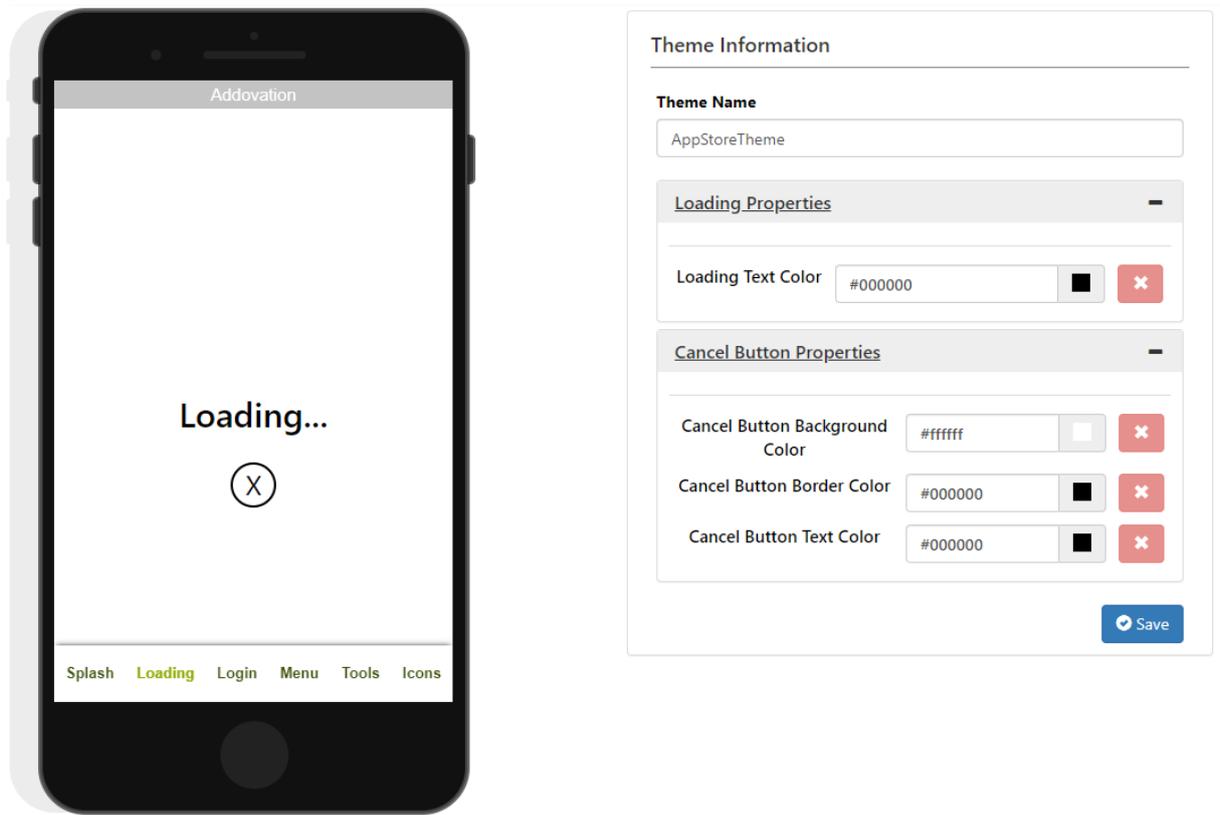


Figure 15: Loading screen

- *Loading Text Color*: To set up the color to the loading text
- *Cancel button properties*: To set up the Background, Boarder & Text color to the cancel button on loading screen.

➤ Login Screen

Theme Information

Theme Name
MyTheme 1

Page Properties

Page Background Color #ffffff

Logo Properties

Logo Image

App Name Properties

App Name Text Color #8da734

Cloud Status Properties

Cloud Connected Image

Cloud Disconnected Image

Combo Box Background Color #ffffff

Combo Box Text Color #000000

Text Box Properties

Text Box Background Color #ffffff

Text Box Text Color #000000

Placeholder Text Color #cccccc

Button Properties

Button Background Color #979797

Button Border Color #585858

Button Text Color #000000

Privacy Link Properties

Privacy Link Color #838181

[Save](#)

Addovation

✓

MOBILE ACTION

Cloud Url ✖

System Id

User Name ✖

Password

Login

Read our privacy policy

Splash
Loading
Login
Menu
Tools
Icons

Figure 16: Login screen

- *Page Properties:* To set up a background color to the main page & other pages in mobile client.
- *Logo Properties:* To setup the logo image in login screen of the mobile client.
- *App Name Properties:* To set up the application name text color.
- *Cloud Status Properties:* To set up the cloud status image.
- *Text Box Properties:* To setup the Textbox properties in the login screen & other pages.
- *Button Properties:* To setup the button background, border & text color in login button & other buttons appeared in MA applications.
- *Privacy Link Properties:* To set up the privacy link color.

➤ Menu Screen

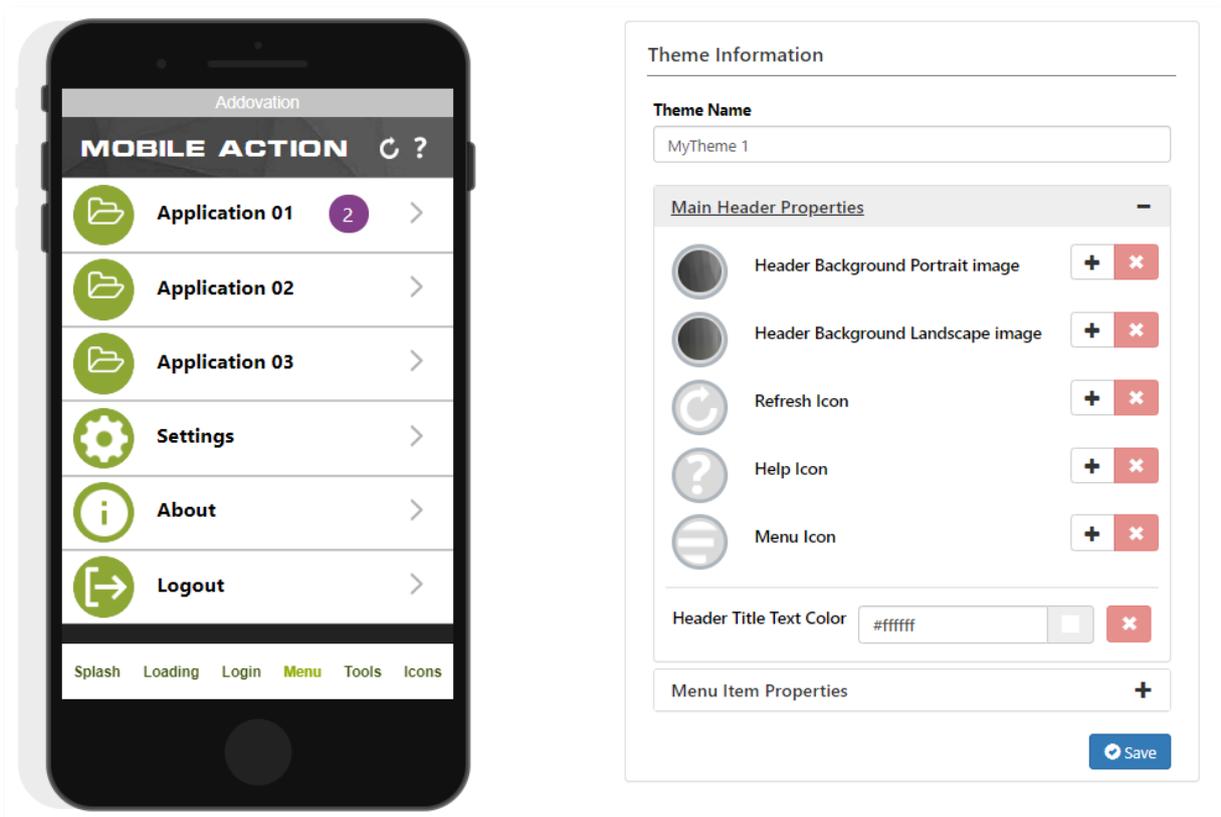


Figure 17: Menu screen

- *Main Header Properties:* To set up the mobile client header background portrait image, landscape image, refresh icon, help icon, & header title text color & menu icon
- *Menu Item Properties:* To set up the mobile client main page icons & color properties.

➤ Tools Screen

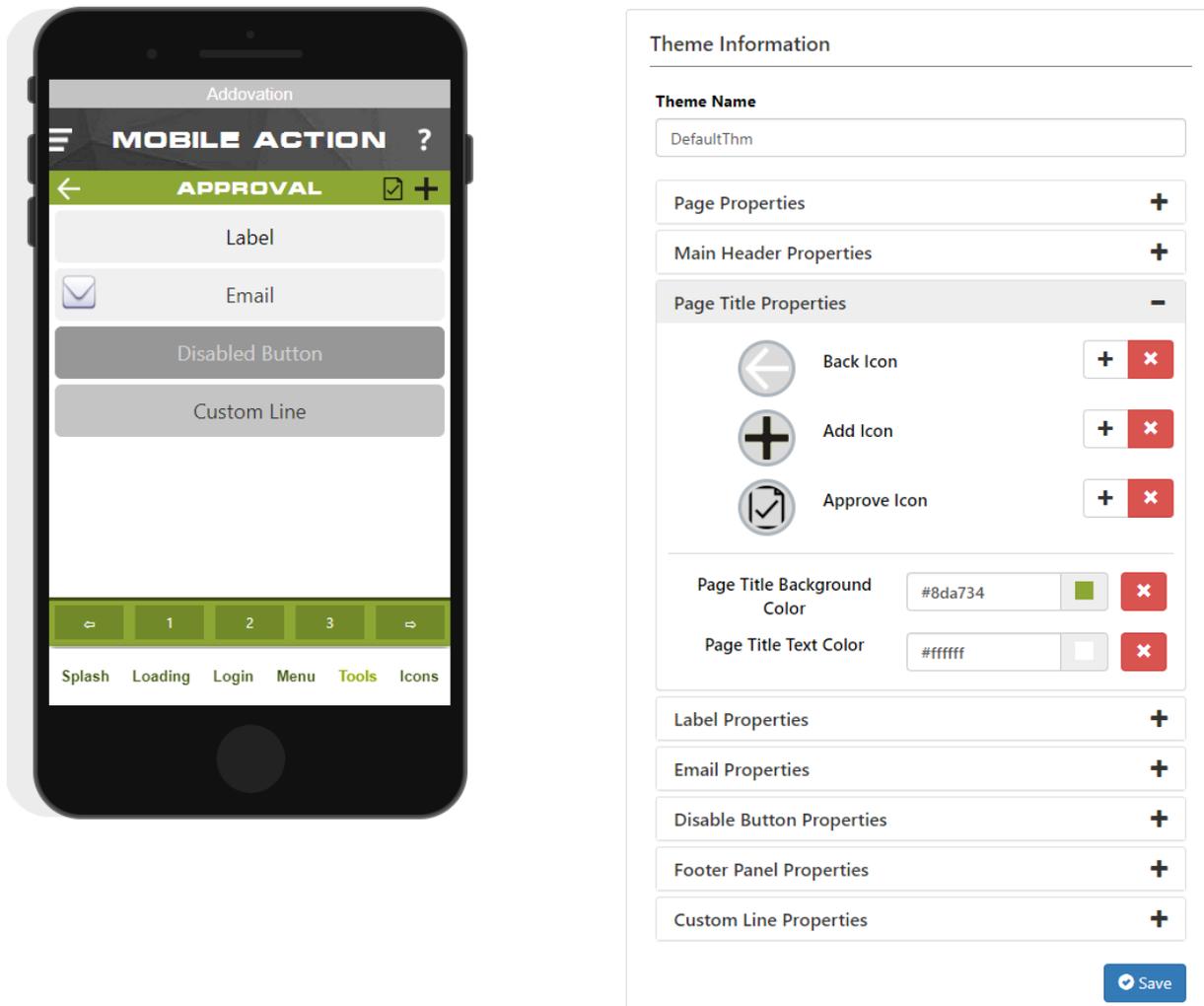


Figure 18: Tools screen

- **Page Title Properties:** To set up the application page title icons & colors.
- **Label Properties:** To set up the Label Text color.
- **Email Properties:** To set up the Email icon.
- **Disable Button Properties:** To set up the disable button background, border & text color.
- **Footer Panel Properties:** When it is a list page & list panel, this is to set up the page footer background color, footer button background, footer button text color & the footer top line color.
- **Custom Line Properties:** To set up the custom line color.

➤ Icons Screen

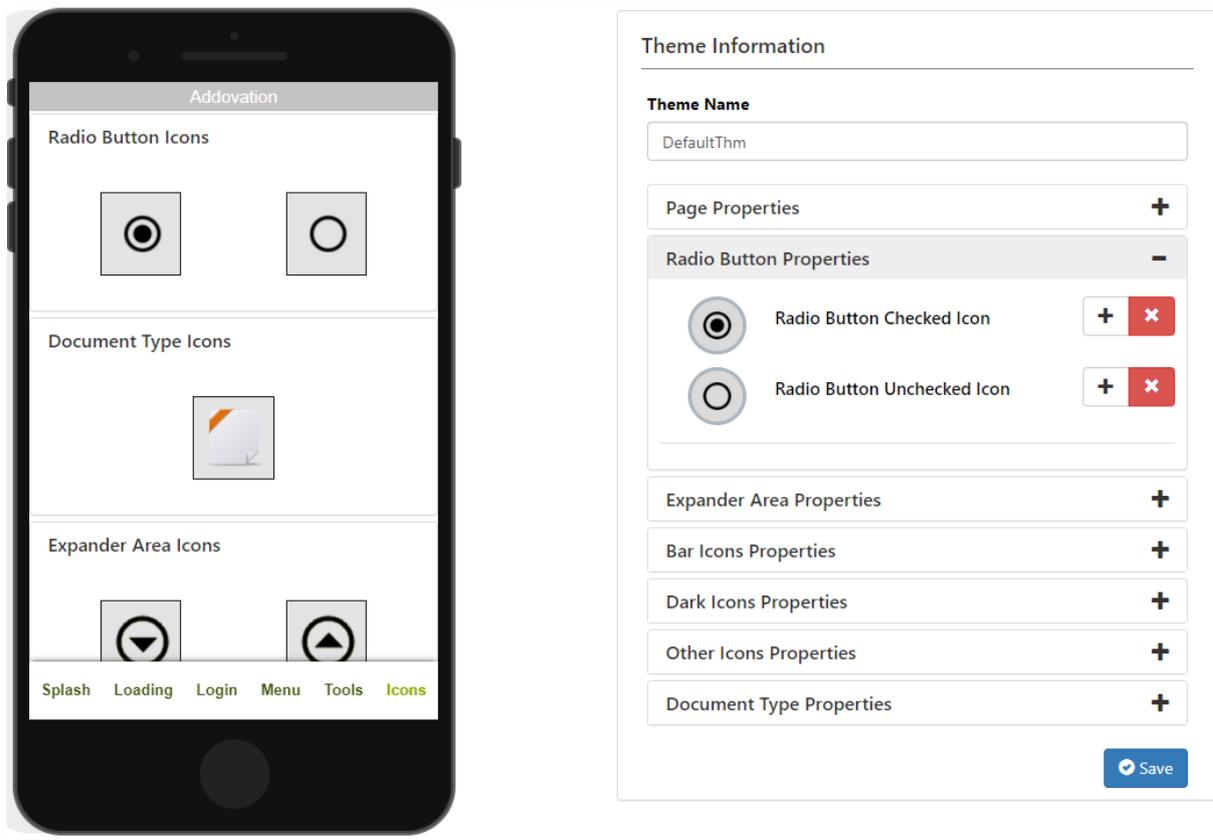


Figure 19: Icons screen

- **Radio Button Properties:** To set up the radio button checked & unchecked icons of the mobile client.
- **Expander Area Properties:** To set up the expander collapsed & expanded icons of the mobile client
- **Bar Icons Properties:** To set up the bar about & settings icons of the mobile client.
- **Dark Icons Properties:** To set up the dark about, logout & settings icons of the mobile client.
- **Other Icons Properties:** To set up the cancel, disable, element mark, enable, folder, gps, configuration document, details document, call, close, search, alternate logo, remove & separator for button icons of the mobile client.
- **Document Type Properties:** To setup the documents type icon.

2.1.4 Default Theme Configurations

User can set up a 'Default Theme' by clicking on 'Settings' and then 'Default Theme Config' so that user can use that theme unless they need a new theme.

Here you can set up the default theme by changing the theme property values on each tab (Splash, Loading, Login, Menu, Tools, Icons) & click 'Save'

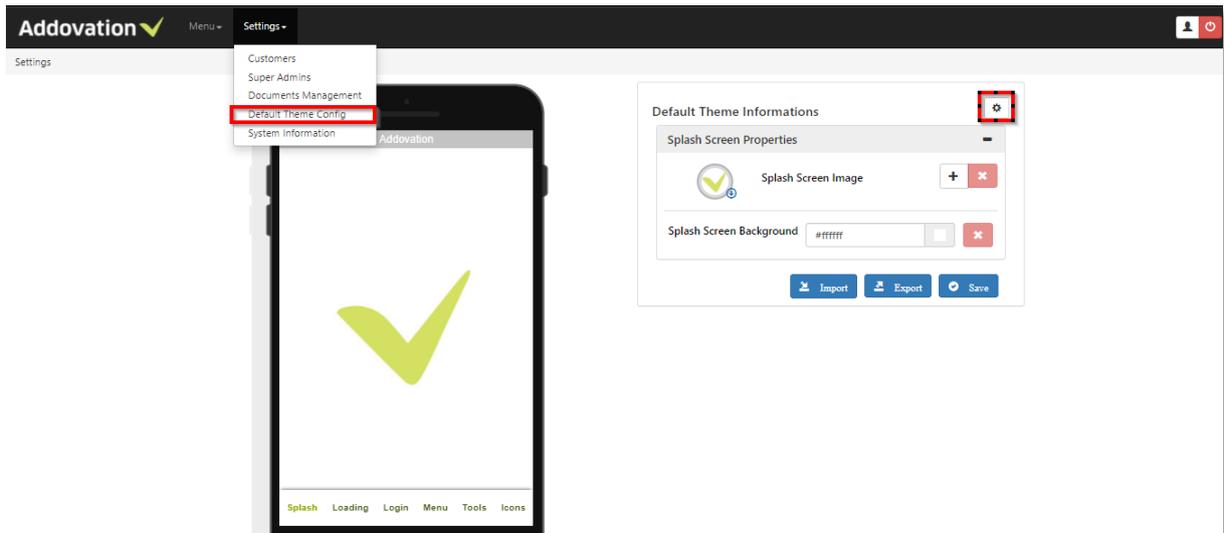


Figure 20: Default theme configurations

Also, user can add new properties by clicking on 'Settings'  button in Default Theme Information. Follow below steps to add a new theme property.

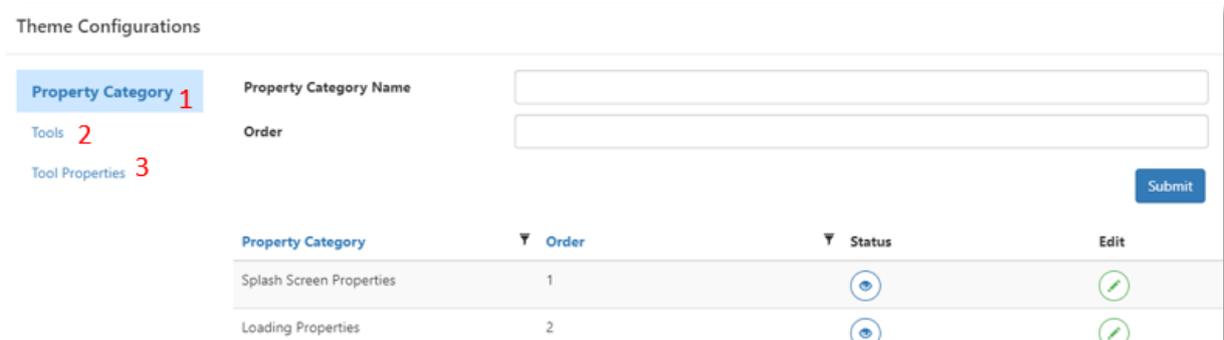


Figure 21: Default theme configuration steps

Step 01- Property Category:

Go to the 'Property Category' tab & Enter Name for the Property Category & give an Order Number.

Click on 'Submit'.

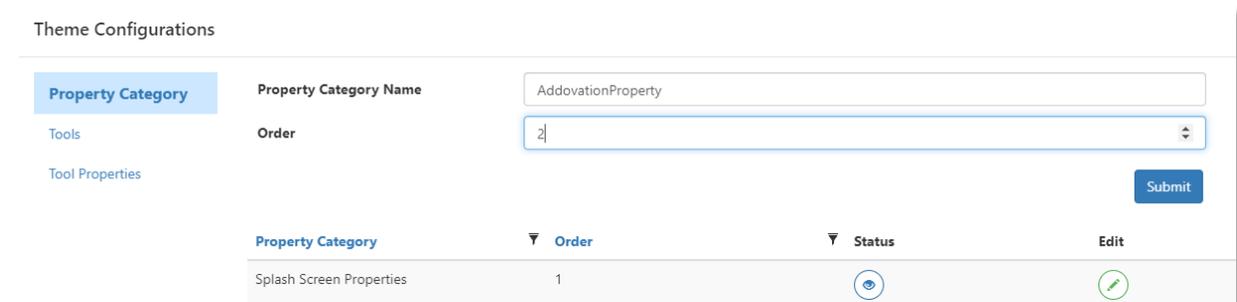


Figure 22: Property category

Step 02- Tools:

Go to the 'Tools' tab & enter the 'Tool Name', 'Tool Display Name' & select the 'Property Category' which you saved in the step 01 from the dropdown list.

Click on 'Submit'

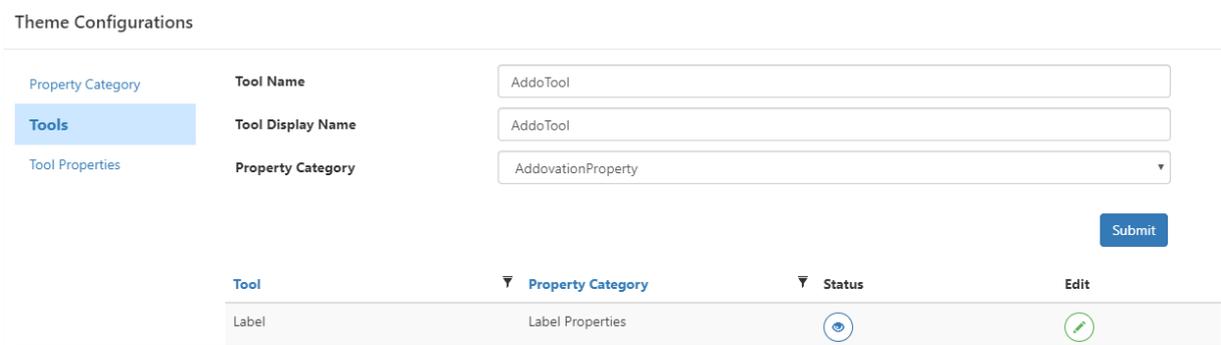


Figure 23: Tools

Step 03- Tool Properties:

Go to the 'Tool Properties' tab & select the 'Tool Name' which you entered in the step 02 from the drop-down list & Enter the 'Property Name' & 'Property Display Name'.

Here you can select 3 property types (Color, Image & Fonts)

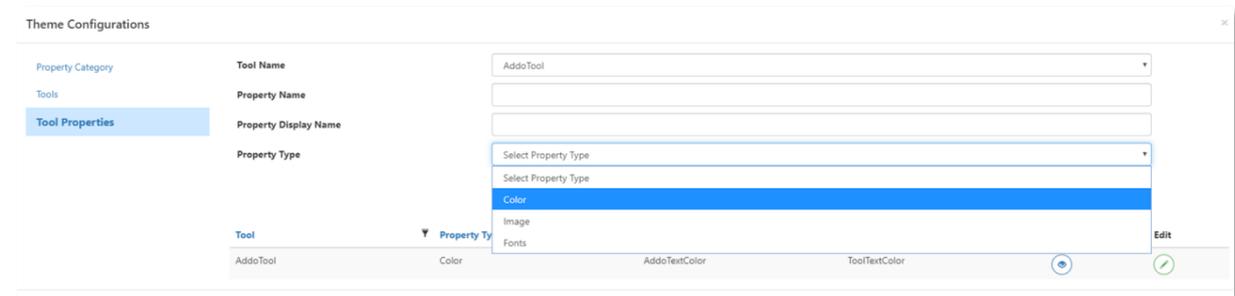


Figure 24: Tool properties

In the color property you can select 'Text Color', 'Background color' & 'Border color'

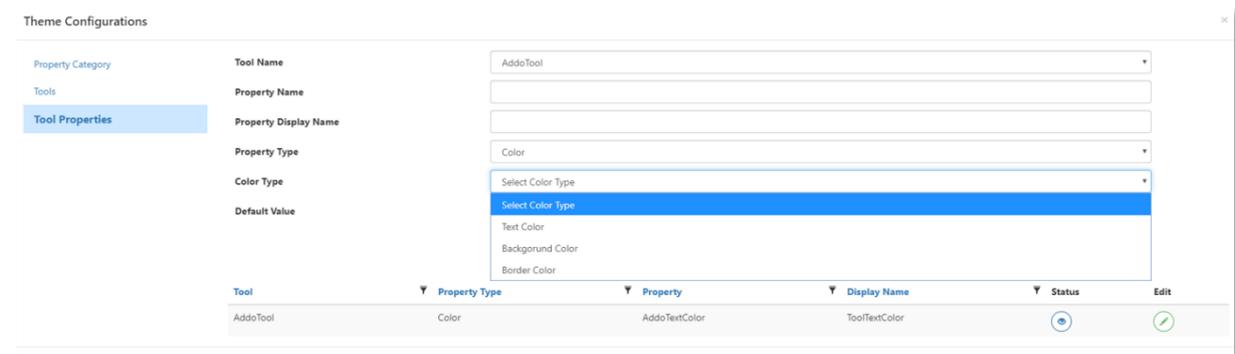


Figure 25: Tool properties color type

Theme Configurations

Property Category	Tool Name	AddoTool
Tools	Property Name	AddoTextColor
Tool Properties	Property Display Name	ToolTextColor
	Property Type	Color
	Color Type	Text Color
	Default Value	#bf4b4b

[Submit](#)

[Tool](#) ▼ [Property Type](#) ▼ [Property](#) ▼ [Display Name](#) ▼ [Status](#) [Edit](#)

Figure 27: Tool properties

The added new tool is displayed in the Tools tab as depicted below.

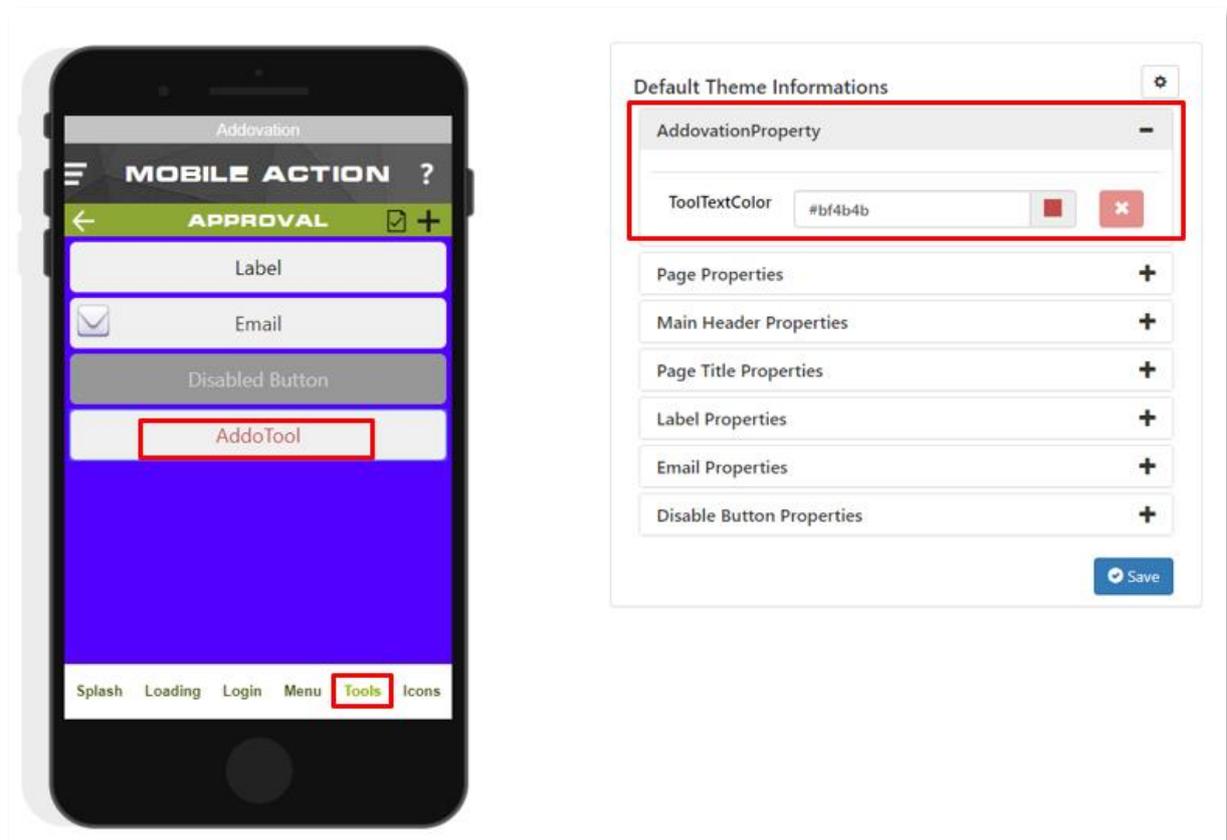


Figure 26: Added new tool

2.1.1 Language Support Text Translations

Mobile Action is support multiple languages. English is the default language. Default language has restricted for editing. Norwegian & Swedish languages have added in the MA web admin. Users can Add other new languages in Languages tab.

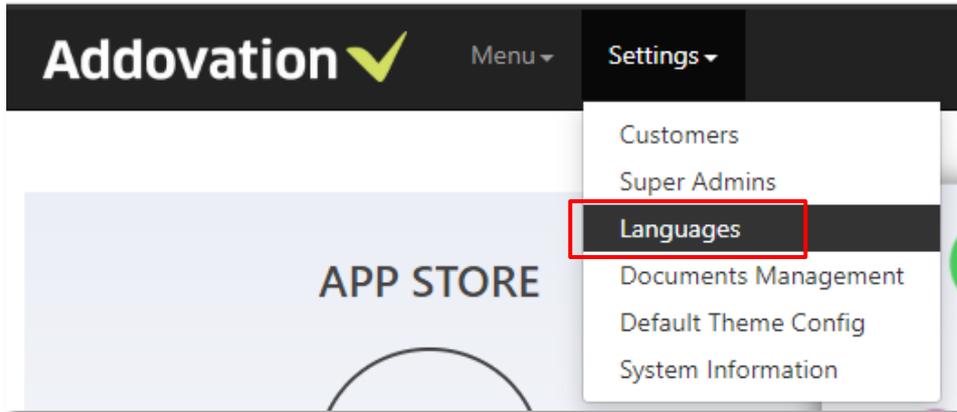


Figure 28 Languages tab

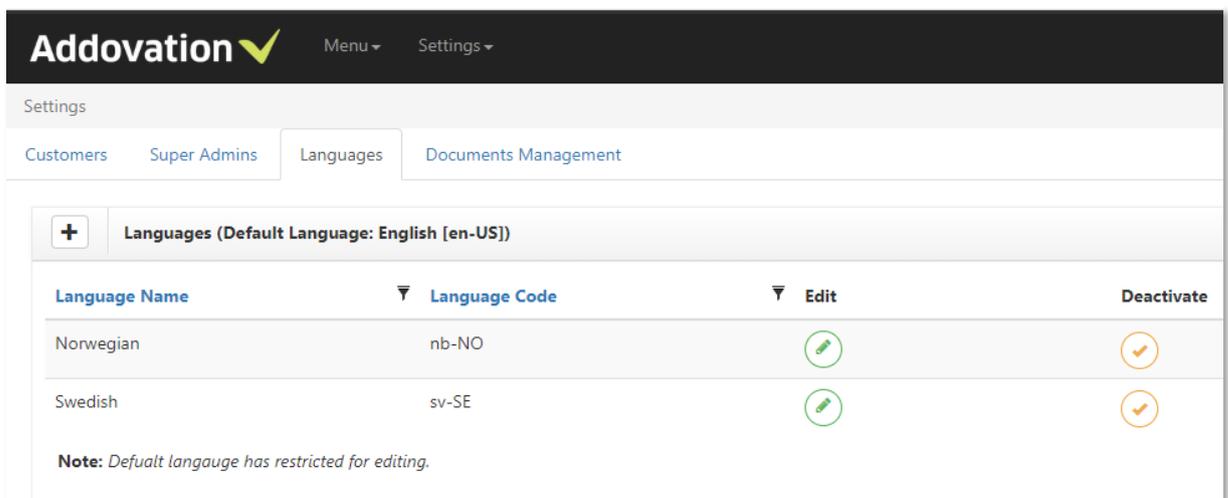


Figure 29 Languages

By clicking on '+' button can add new language. Need to enter the Language Name & Language Code.

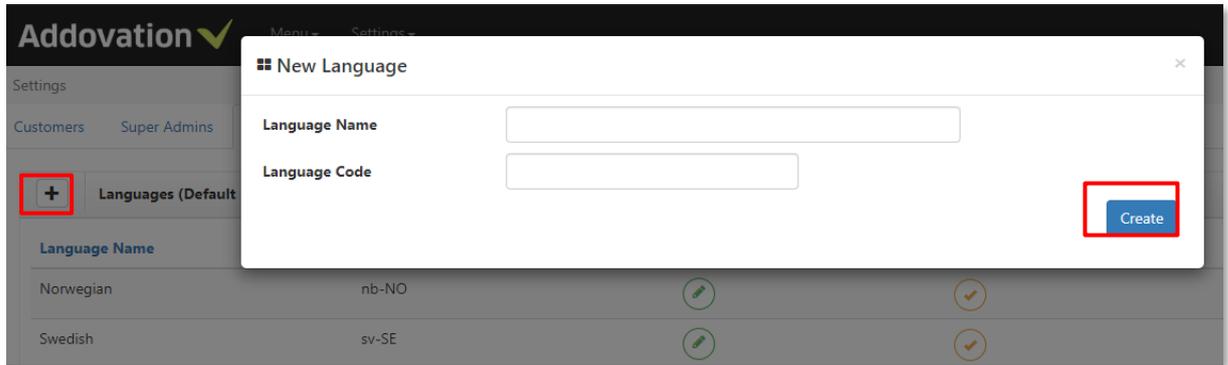


Figure 30 Add new language

Users can edit each language's , Language Name & Language code

Also uses can Deactivate or Activate each languages from web admin

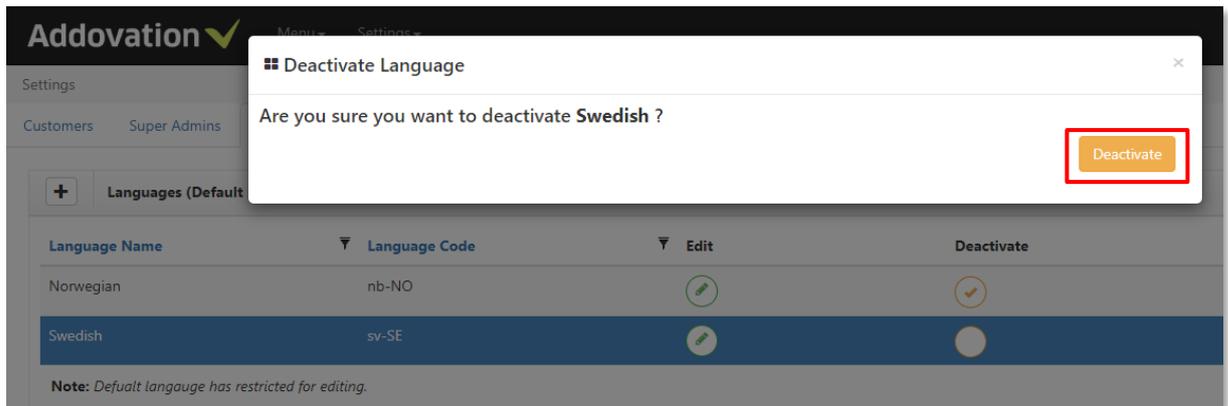


Figure 31 Deactivate language

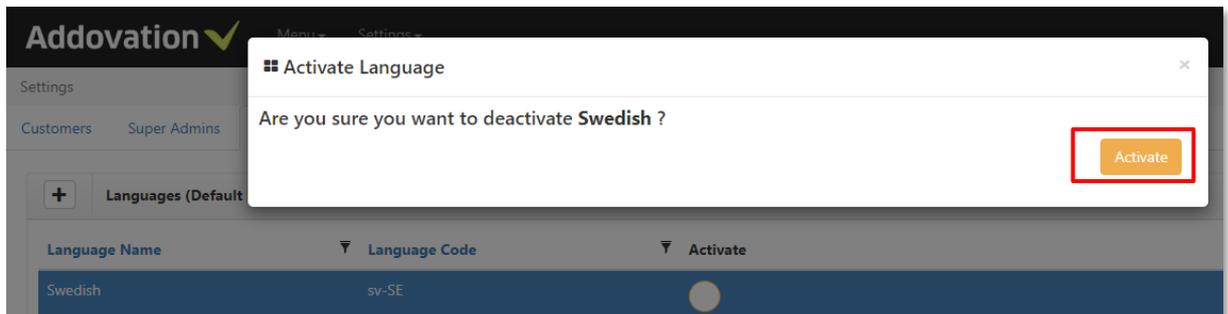
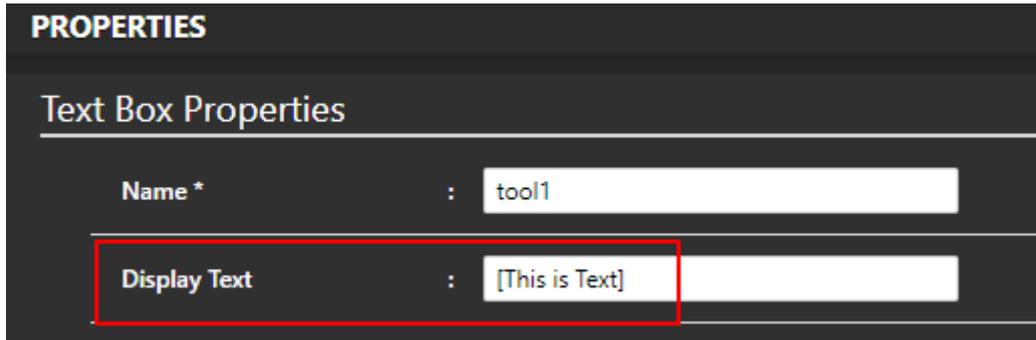


Figure 32 Activate language

2.1.1.1 Text Translation features in web admin page design

- Text Translation support is available for each & every tool in Web Admin.

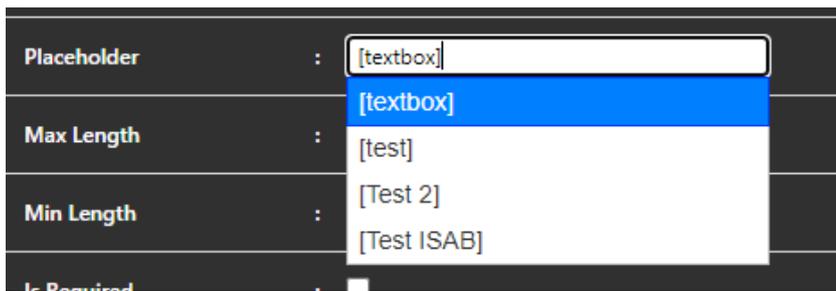
Language support text should be represented within '[' and ']' brackets as shown in below image.



The screenshot shows a dark-themed interface with a 'PROPERTIES' header. Below it is a section titled 'Text Box Properties'. There are two input fields. The first is labeled 'Name *' and contains the text 'tool1'. The second is labeled 'Display Text' and contains the text '[This is Text]'. A red rectangular box highlights the 'Display Text' field and its label.

Figure 33 Text translations for display text

- Single words such as [text] or sentence such as [This is a sentence] or multiple text such as [Hello] [World] or combination of both translated text and regular text such as '[Welcome] [to] Addovation' is supported.
- If closing bracket doesn't imply then entire text is considered as translated text such as '[This is a none closing bracket'
- If translated text does not exist in database, then it will be added as a new text only for default language. Later user can update other languages
- Text prediction is available for display text & placeholder



The screenshot shows a form with several fields. The 'Placeholder' field contains '[textbox]'. Below it, a dropdown menu is open, showing suggestions: '[textbox]', '[test]', '[Test 2]', and '[Test ISAB]'. The first suggestion, '[textbox]', is highlighted in blue. Other fields like 'Max Length' and 'Min Length' are also visible.

Figure 34 Prediction text

2.1.1.2 Features available for maintain language support

Text Translations are different for each customers. On the 'Menu' tab by click on the 'Customer' users can go to the 'Text Translations' tab

- Users can Select each Languages by clicking on below drop down in Text Translations tab

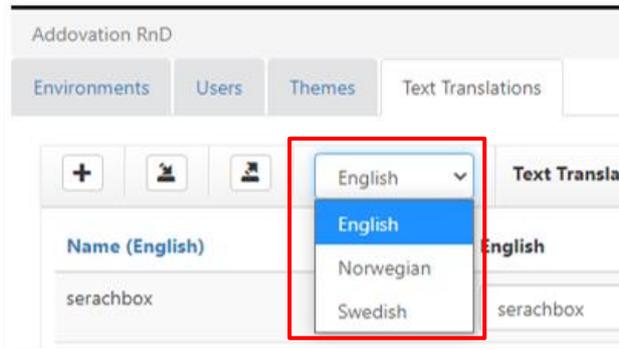


Figure 35 Select the language

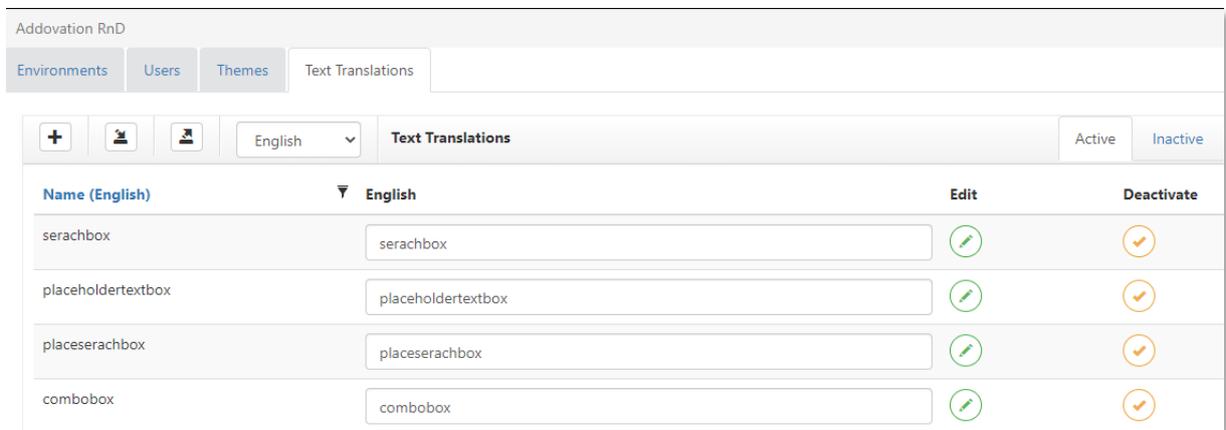


Figure 36 Translations for selected language

- Add new language text

Users can add new text by clicking on '+' button

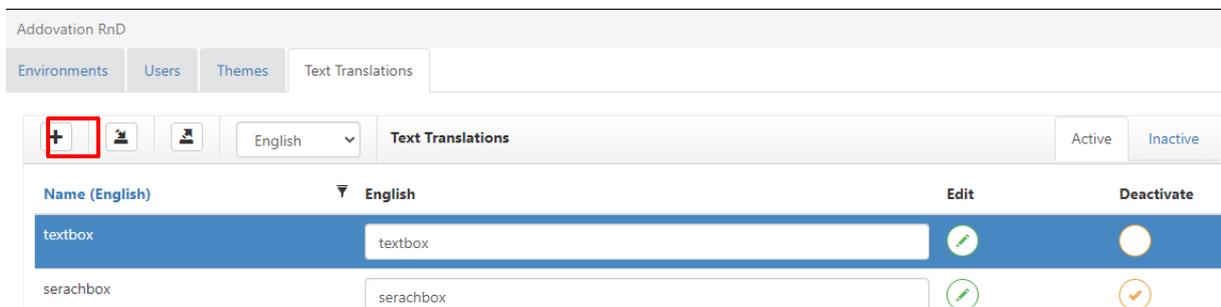
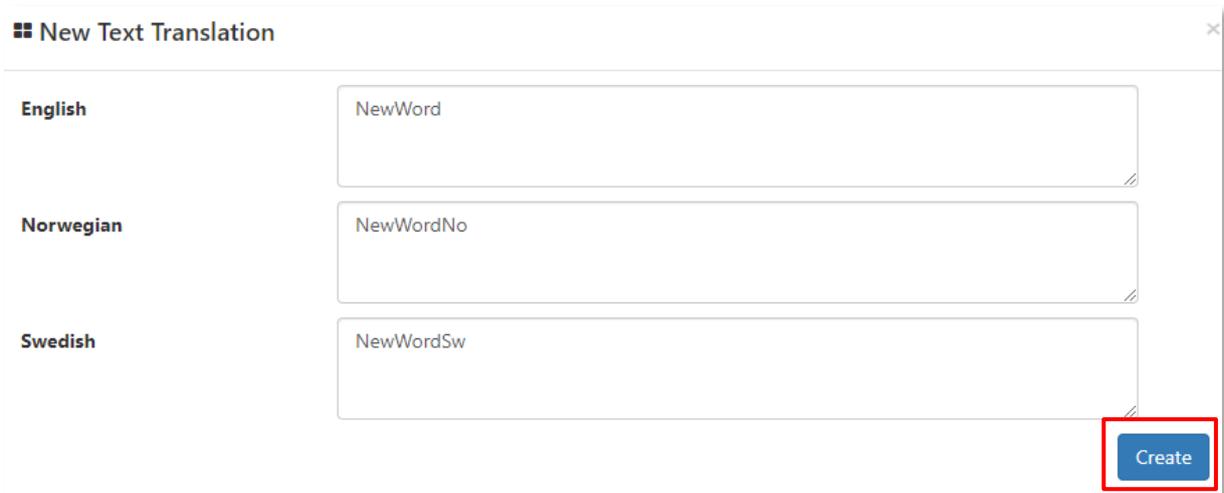


Figure 37 Add new text

Now enter the text & click on 'Create'



New Text Translation

English

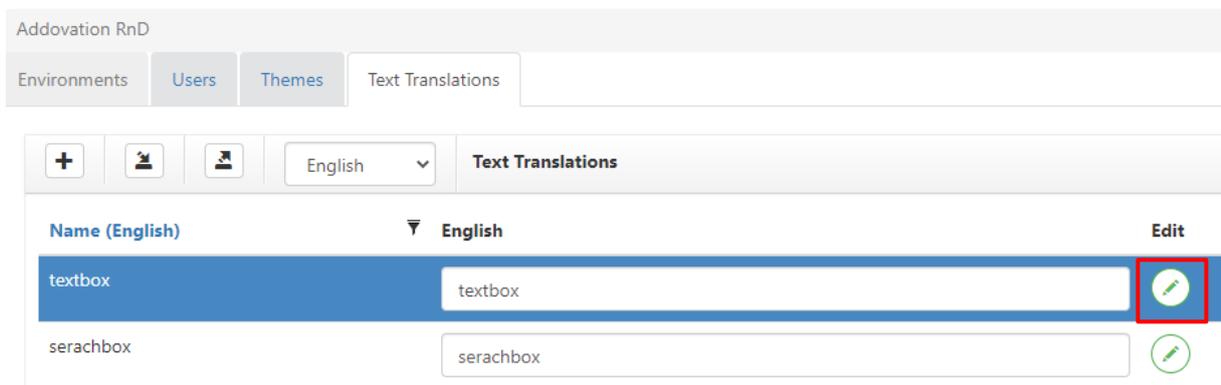
Norwegian

Swedish

Create

Figure 38 Create new text

- Edit language text
By clicking on 'Edit' user can edit each text



Addovation RnD

Environments Users Themes Text Translations

+   English **Text Translations**

Name (English)	English	Edit
textbox	textbox	
serachbox	serachbox	

Figure 39 Edit text

Change the text & click on 'Update'



Figure 40 Update text

- Deactivate language text
User can click on Deactivate icon to deactivate each text. Then it will move to Inactive tab

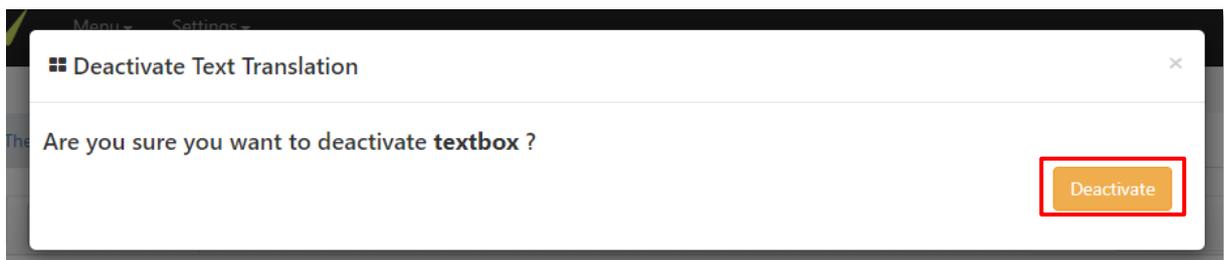


Figure 41 Deactivate text

- Activate language text



Figure 42 Activate text

- Update all text in the page at once
User can edit all the texts in the page for selected language & can update by clicking on 'Update Page'.

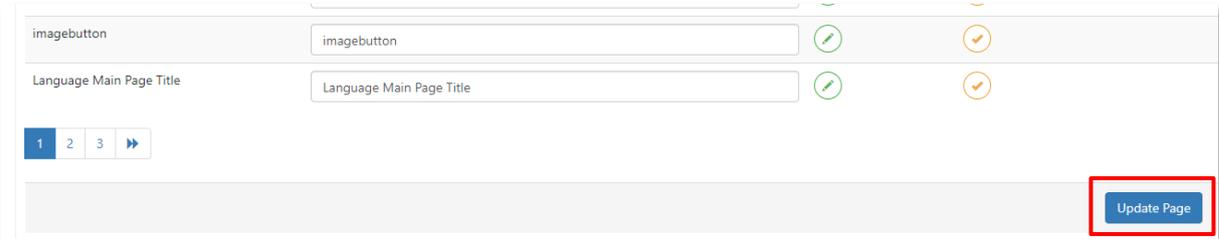


Figure 43 Update page

- Validate empty text for default text (En-US)
User must enter a value for English text before Click on 'Create'

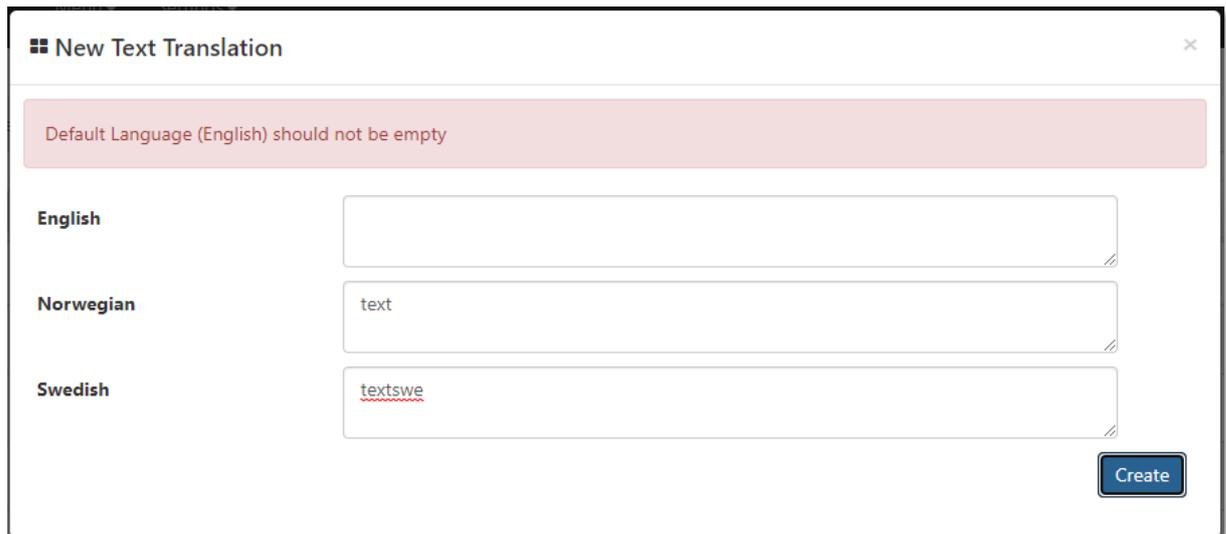
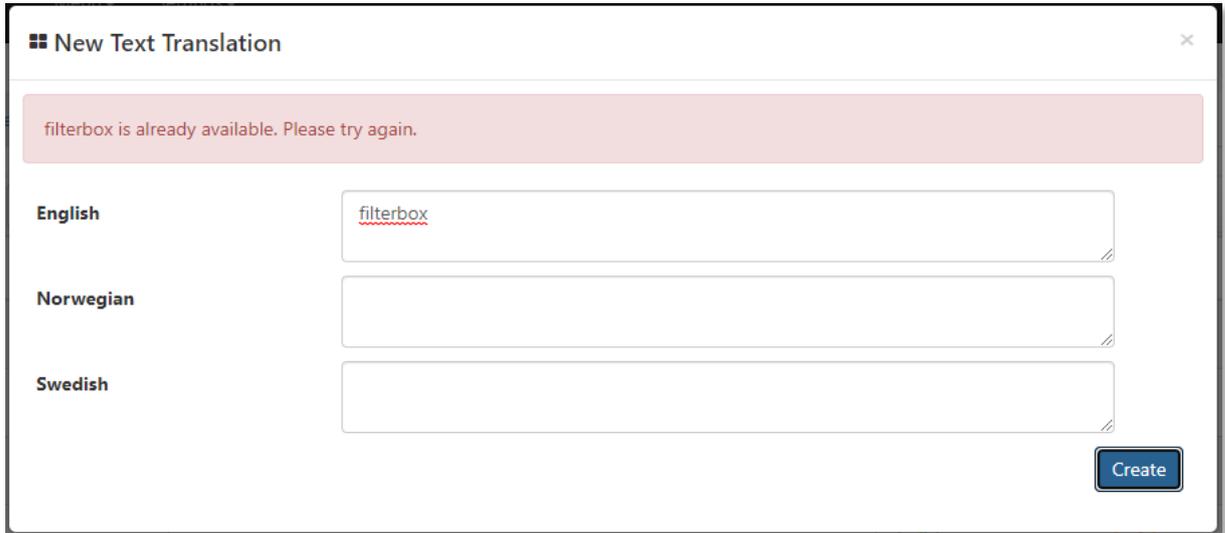


Figure 44 Validate empty text

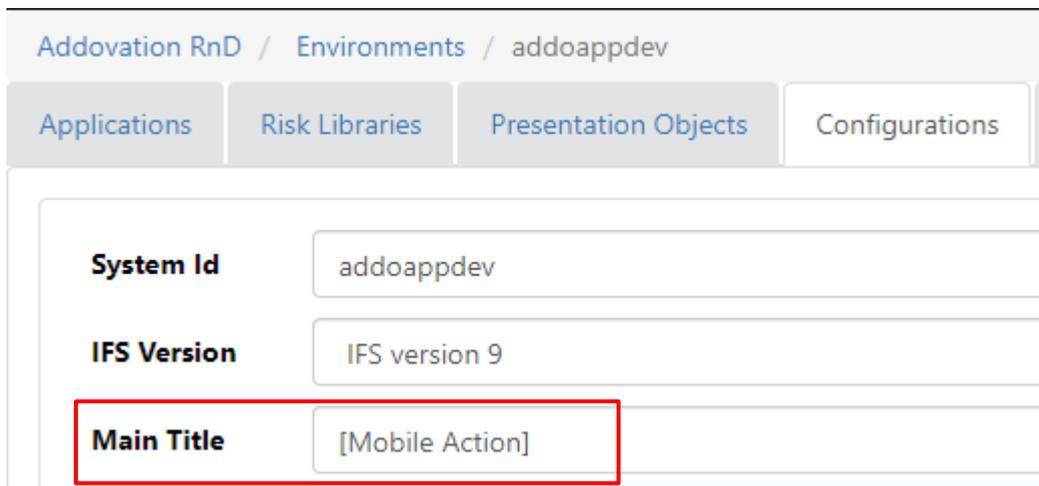
- Validate text duplication within same language
It's not possible to enter duplicate Text



The screenshot shows a 'New Text Translation' dialog box with a red error message at the top: 'filterbox is already available. Please try again.' Below the error, there are three text input fields for 'English', 'Norwegian', and 'Swedish'. The 'English' field contains the text 'filterbox' and has a red dashed underline. The 'Norwegian' and 'Swedish' fields are empty. A blue 'Create' button is located at the bottom right of the dialog.

Figure 45 Validate text duplication

- Text Translations support is also available for below,
 - Environment Main Title



The screenshot shows the 'Configurations' tab in the Addovation RnD interface. The breadcrumb path is 'Addovation RnD / Environments / addoappdev'. The 'Configurations' tab is selected. The form contains three fields: 'System Id' with the value 'addoappdev', 'IFS Version' with the value 'IFS version 9', and 'Main Title' with the value '[Mobile Action]'. The 'Main Title' field is highlighted with a red border.

Figure 46 Environment title

- Application Name
- Main Page Title

The screenshot shows a web-based configuration interface. At the top, there is a breadcrumb trail: "Addovation RnD / Environments / addoappdev / Applications / [Application one]". Below this, there are several tabs: "Pages", "Context Pages", "Panels", and "Configurations". The "Configurations" tab is active. In the configuration area, two fields are highlighted with a red border: "Application Name" with the value "[Application one]" and "Main Page Title" with the value "[Main Title]".

Figure 47 App name & title

2.1.1.3 Text Translations support from mobile app

User can change the language from settings page

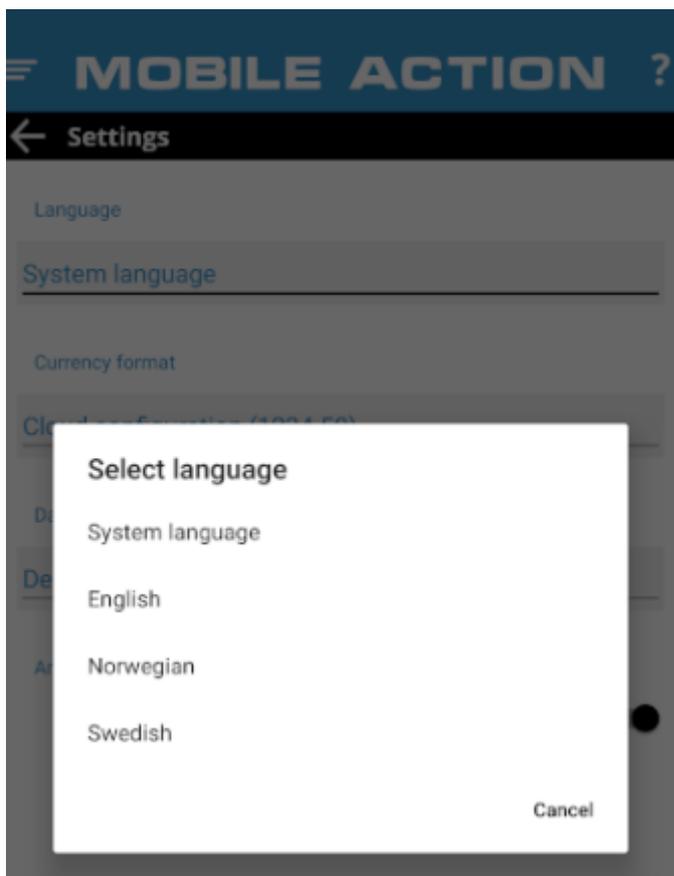
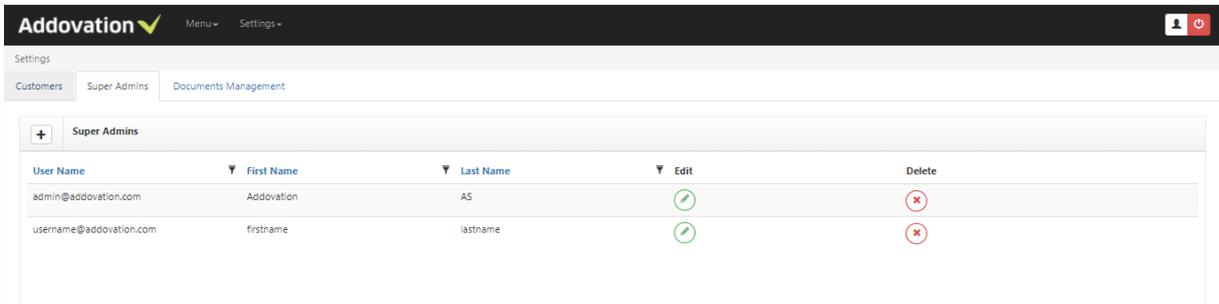


Figure 48 Mobile app

2.2 Super Admins

Only Super admins have access to create, edit and delete other super admins.



The screenshot shows the 'Super Admins' management interface. At the top, there's a navigation bar with 'Addovation' logo, 'Menu', and 'Settings'. Below it, a sub-navigation bar includes 'Customers', 'Super Admins', and 'Documents Management'. The main content area is titled 'Super Admins' and contains a table with the following data:

User Name	First Name	Last Name	Edit	Delete
admin@addovation.com	Addovation	AS		
username@addovation.com	firstname	lastname		

Figure 50: Super admin list

Figure 49 Update text

➤ Create New Super Admin

by clicking '+' button in the header and provide

- User Name (mandatory) – user name should include @ and .com (ex: addovation@abc.com).
- First Name
- Last Name
- Password- Password should contain characters, numbers and at least one special character (ex: Pa\$\$word1)
- Confirm password and click on 'Create' button will create a Super Admin.



The screenshot shows a 'New Super Admin' form with the following fields:

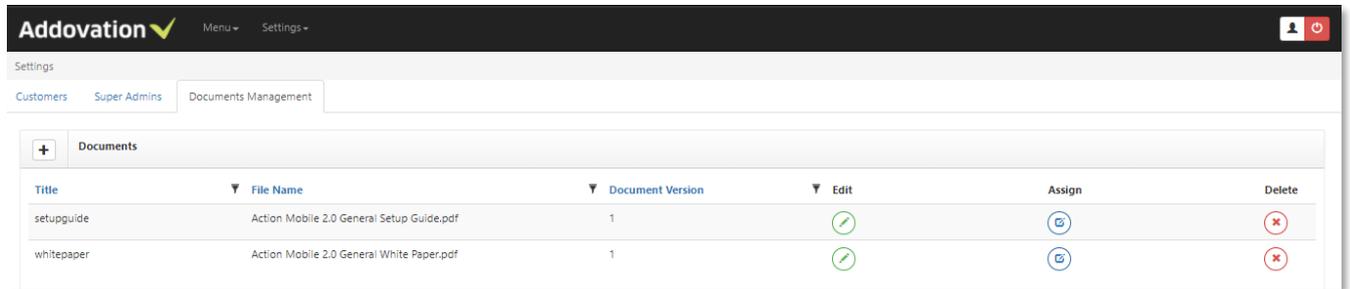
- User Name
- First Name
- Last Name
- Password
- Confirm Password

A 'Create' button is located at the bottom right of the form.

Figure 51: Create super admin

2.3 Document Management

Super admins have access to create, edit, assign and delete documents.
Go to 'Settings'-> 'Document Management'.



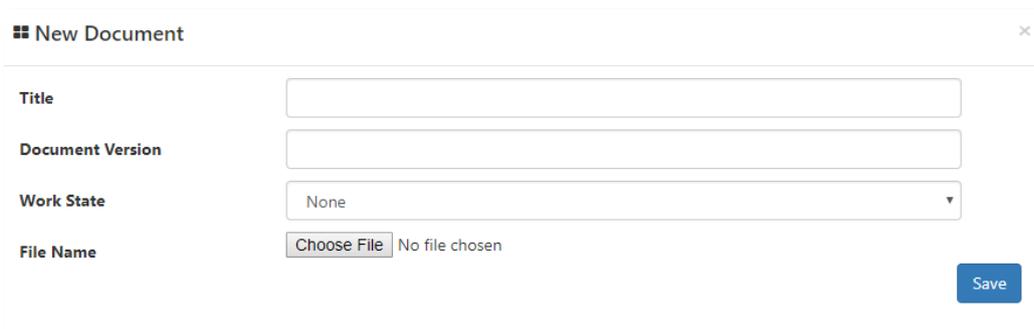
The screenshot shows the 'Documents Management' section of the Addovation interface. It features a table with the following columns: Title, File Name, Document Version, Edit, Assign, and Delete. Two documents are listed:

Title	File Name	Document Version	Edit	Assign	Delete
setupguide	Action Mobile 2.0 General Setup Guide.pdf	1			
whitepaper	Action Mobile 2.0 General White Paper.pdf	1			

Figure 52: Document list

➤ Create New document

Click '+' button in the header and provide Title, document version, work state (none/work in progress/ Approved) and choose a file(.pdf) and click on 'Save' button will create a document.



The 'New Document' form contains the following fields:

- Title**: Text input field.
- Document Version**: Text input field.
- Work State**: Dropdown menu with 'None' selected.
- File Name**: File selection area with a 'Choose File' button and the text 'No file chosen'.
- Save**: Blue button to submit the form.

Figure 53: Create document

➤ Assign document

Super admin can assign documents to environments by clicking  button. Here one document can assign to several environments.

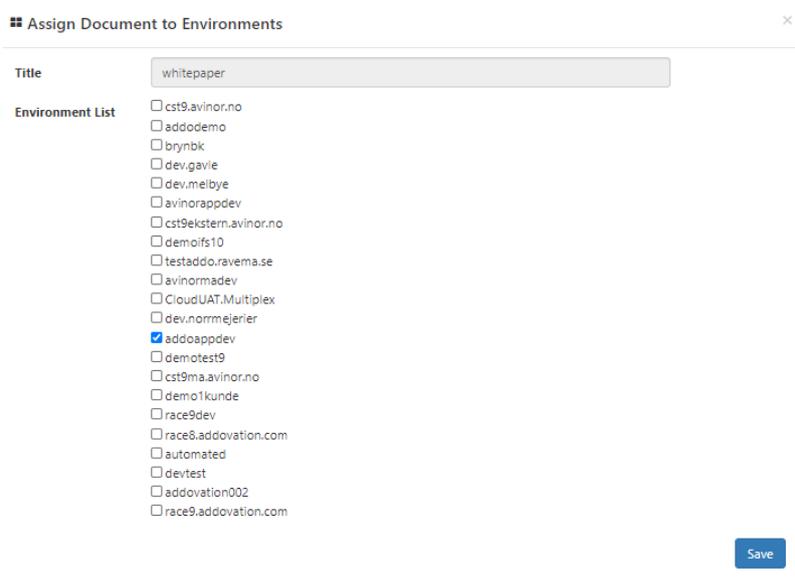


Figure 54: Assign document to environments

2.4 System Information

Users can view several information regarding the Mobile Action components

Go to 'Settings'-> 'Document Management'.

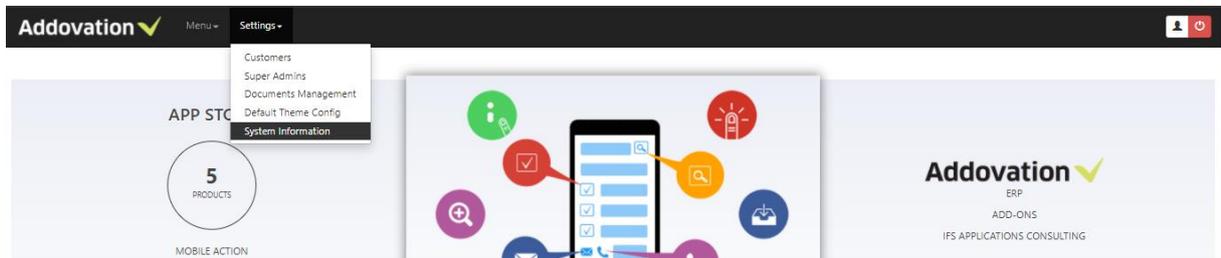


Figure 55: System Information Tab

Some important information is visible as follows

3 Security Settings in Web Admin

There are several defined user access levels (super administrator, administrator, super user & user) to be used in the mobile action.

In the user registration page 'User Role' dropdown will select the user level other than super Administrator.

- **Super Administrator:** All operational access to every customer, environment, application, page and risk library.

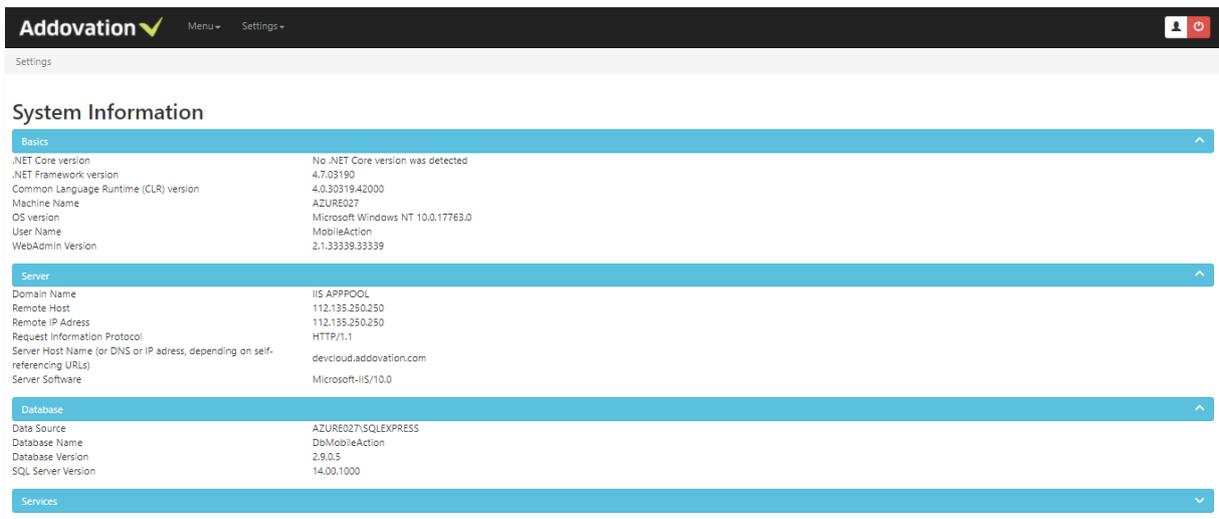


Figure 56: System Information

- **Administrator:** All operational access to one customer and can access environments, applications, pages risk libraries relevant to that specified customer.
- **Super users:** All operational access to applications, pages risk libraries.
- **Users:** All operational access to applications, pages

4 How to create an Application & Pages from Web Admin

Step 1: Login to the Mobile Action Web Admin.

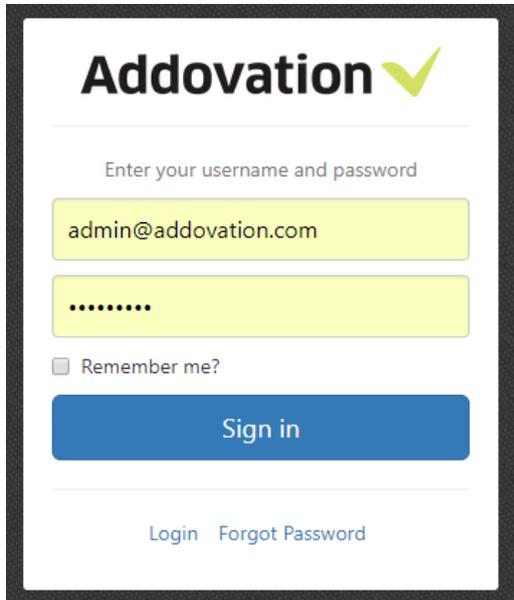


Figure 57: Login

Step 02: Click on the 'Menu'



Figure 58: Select Menu

Step 03: Ex: Click 'Customer' -Addovation RnD → 'Environment' -addoappdev. Then you will be navigated to the applications list.

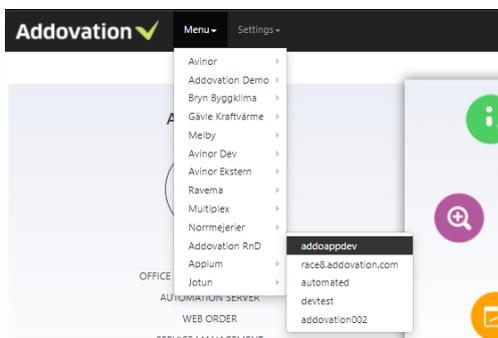


Figure 59 Application list navigation

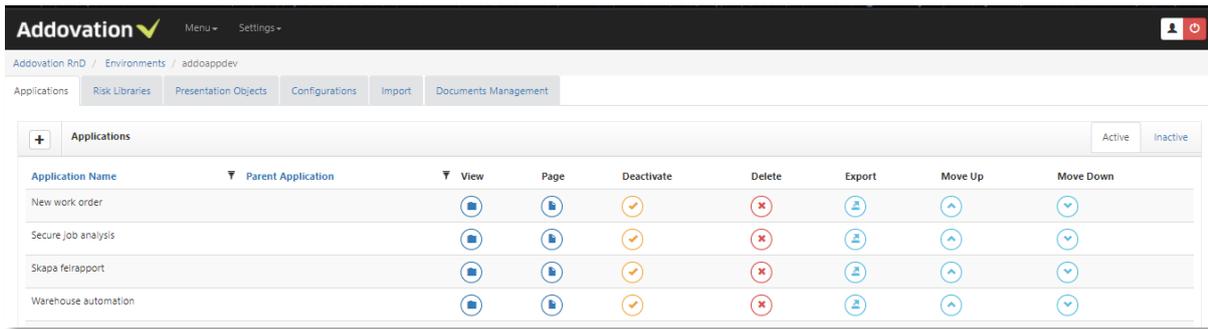


Figure 60: Application list

Here you can add, edit, export, activate/deactivate or delete applications with these buttons.

Icon	Action	Description
	View	Users can view the application details & design.
	Activate, Deactivate	Users can activate or deactivate application/s.
	Export	User can Export application/s.
	Up, Down	Up and down button to change the application display order in app.
	Delete	User can delete application/s.

Table 1 Actions

User can edit application/s by clicking 'Application' View → click on the *Configurations* Tab

Step 04: Create a New Application

To create a new application, click on '+' button.

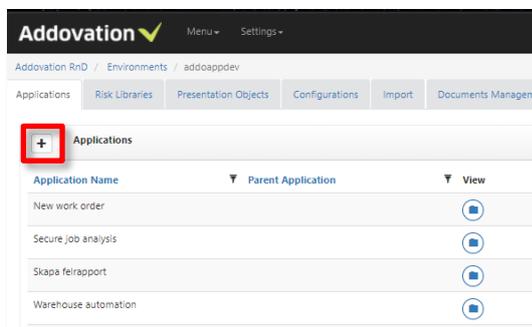


Figure 61: Add new application

Step 05: Enter Application Name(mandatory), Main Page Title, select the Font Size, Parent App and IFS User Groups. Now click on ‘Create’ button.

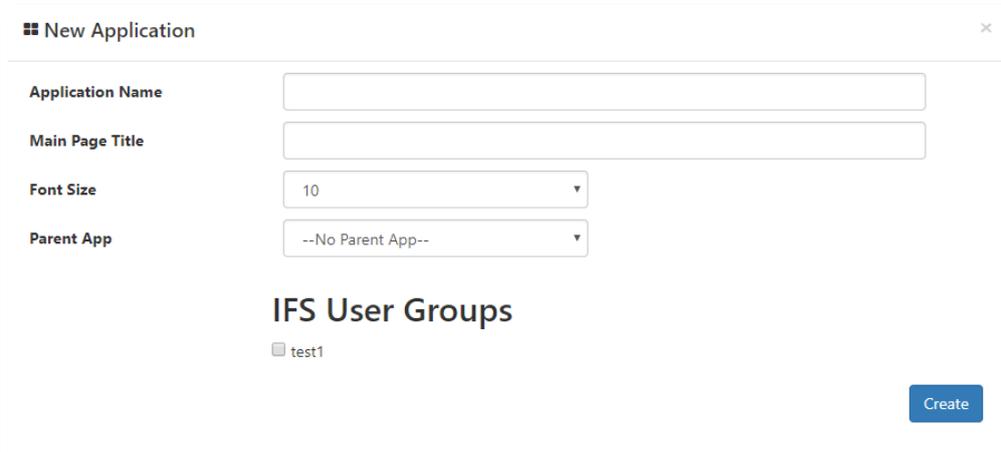
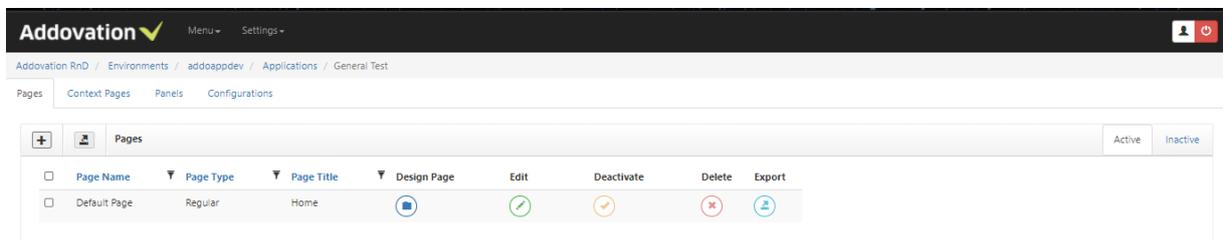


Figure 62: Create new Application

Step 06: Once the application is created, it will be added to the ‘Active’ Application list. By clicking on the **View** button user can see the application details. Ex: pages, context pages, panels and application configurations. Default page has automatically added to the page list with title given in the ‘Main Page Title’ field in the application creation or as ‘Default Page’.

Here user can add, Edit, Export, activate/deactivate or delete pages as same as in the application level.



Page Name	Page Type	Page Title	Design Page	Edit	Deactivate	Delete	Export
Default Page	Regular	Home					

Figure 63:Application details

User can edit application/s by clicking ‘Application’ View → click on the *Configurations* Tab

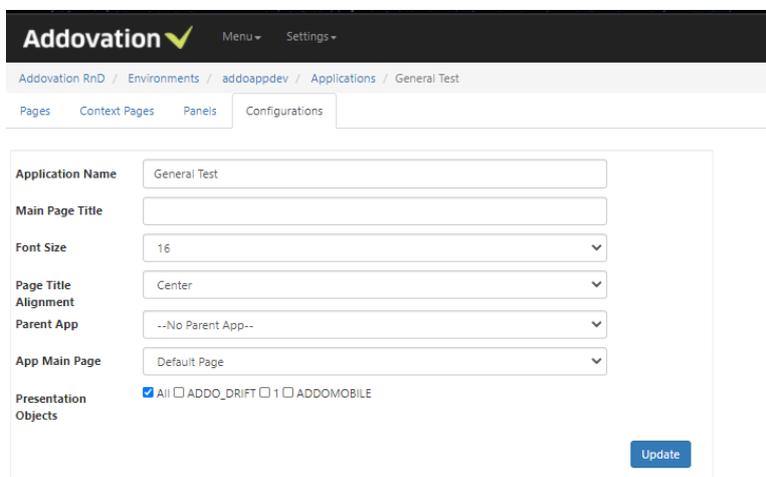


Figure 64: Application configurations

Step 07: Create a page

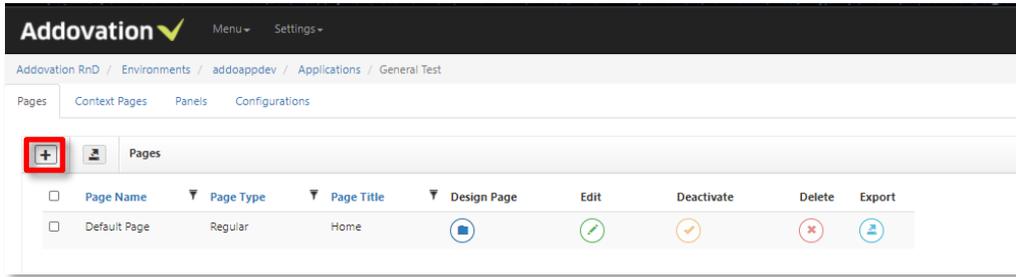


Figure 65: New Page

Enter 'Page Name'(mandatory), 'Page Title', 'Page Title2', select 'Page Type' and select 'Main Page' to make the page as the main page.

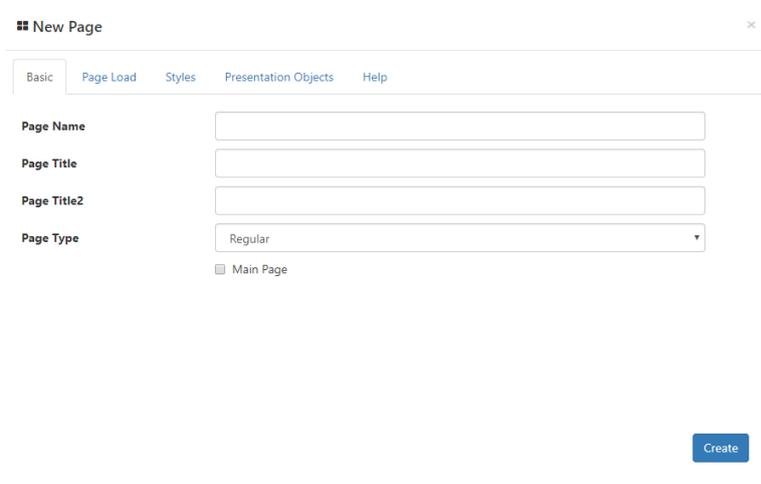


Figure 66: Basic Page details

Select database option, enter backend logic(optional).

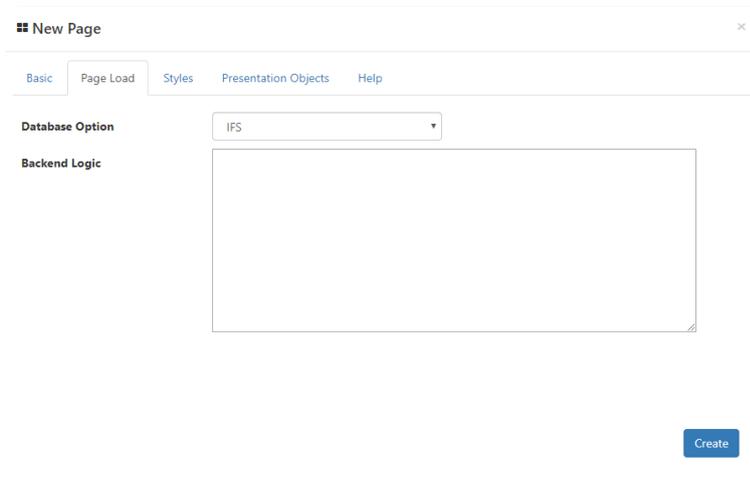


Figure 67: Database option and Backend logic

Select the Font Size(optional).

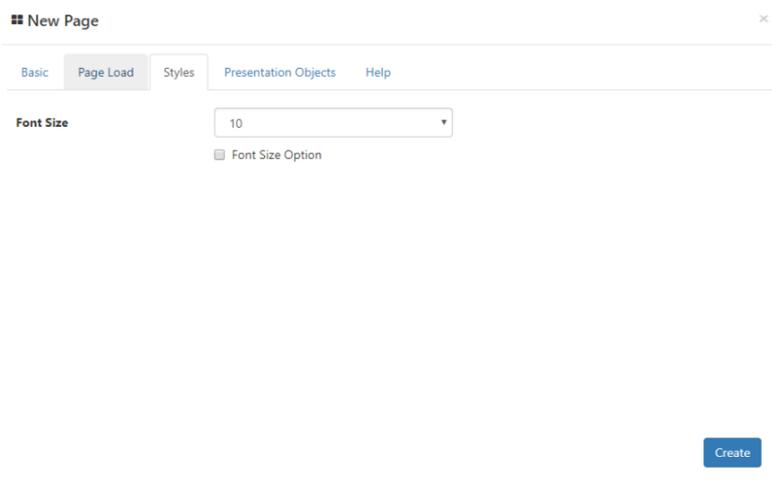


Figure 68: Font styles

Presentation Objects to allow access to applications(optional).

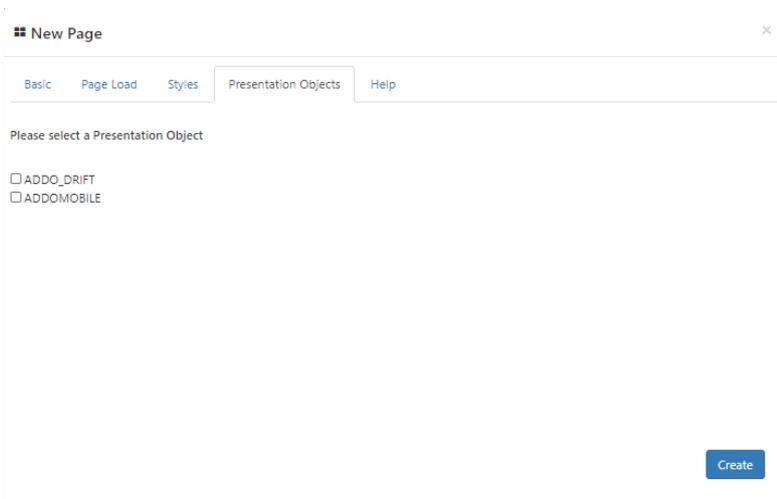


Figure 69: Presentation Objects

Also, user can Export more than one page at once by selecting the (active) pages and click on the Export button.

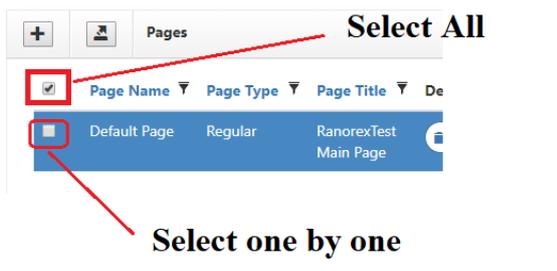


Figure 70: Export Pages

Step 08: Design a page

User can design page/s by clicking on the 'Design Page' button in the page list

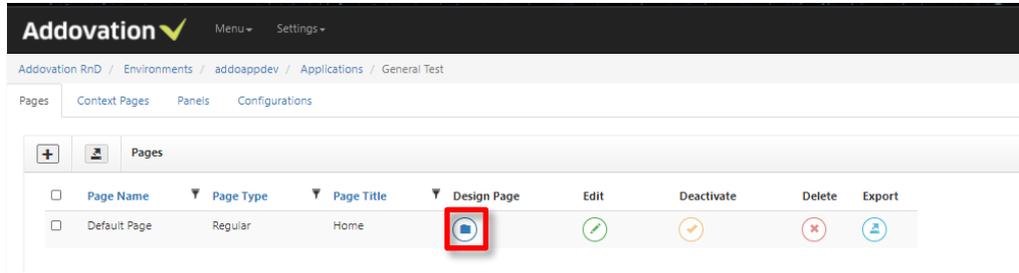


Figure 71: Page details

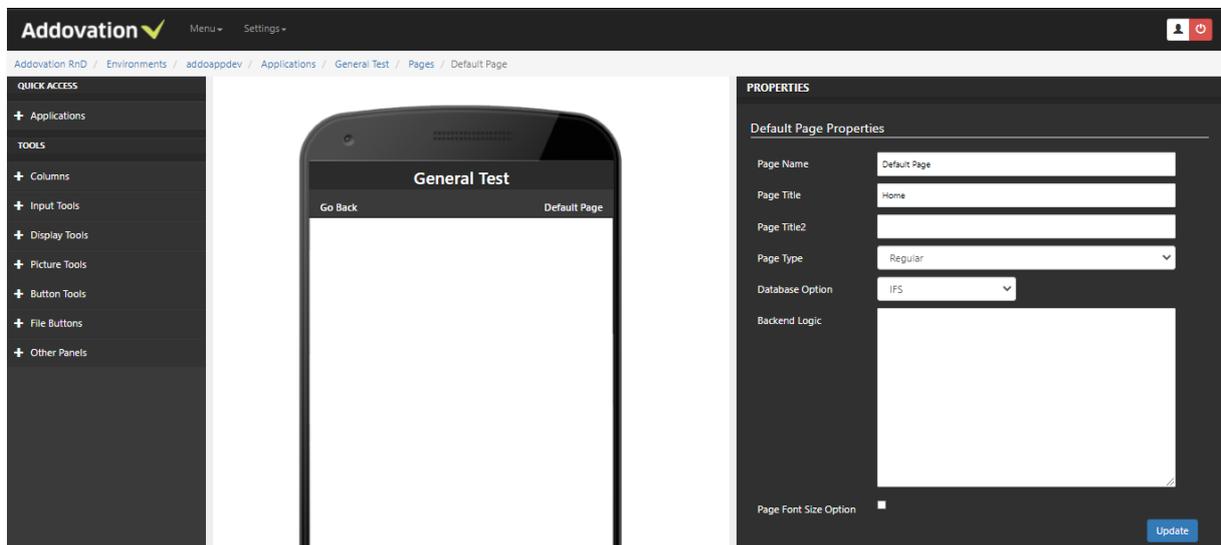


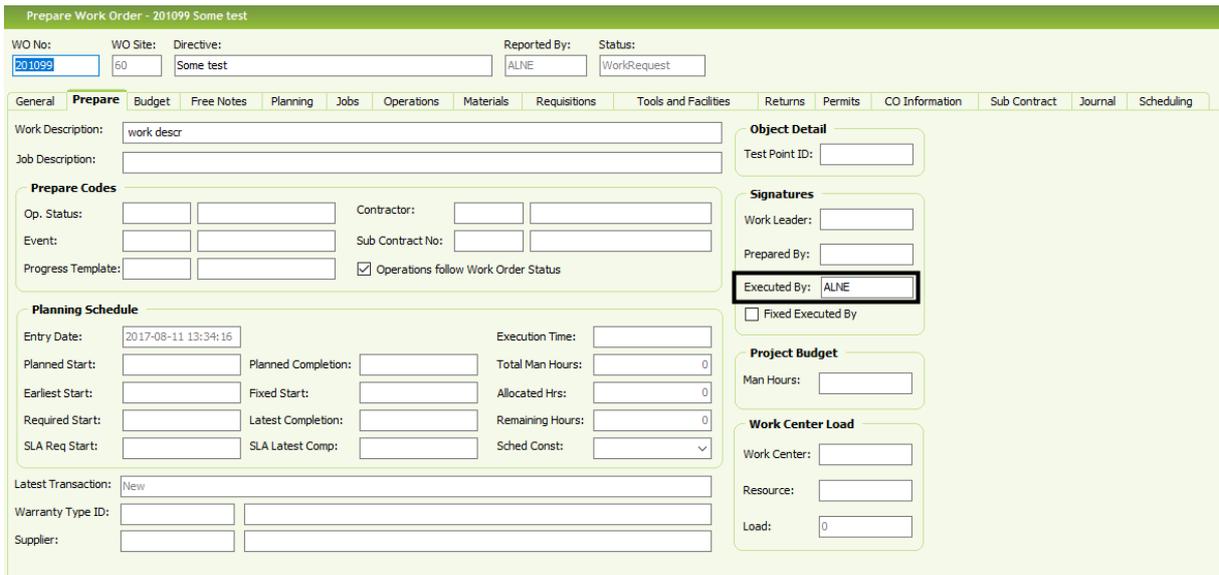
Figure 72: Design page

5 Tutorial: Create a report in of work orders app

One common scenario is that we have data we want to extract from IFS Applications, manipulate and then push back.

5.1 Step 1: Identify flow and objects in IFS Applications

Let's create an app in where we fetch all active separates in where logged on user see's all their current work orders and allow them to change status using a simple button. Consider this work order in IFS Applications:



Prepare Work Order - 201099 Some test

WO No: 201099 | WO Site: 60 | Directive: Some test | Reported By: ALNE | Status: WorkRequest

General | **Prepare** | Budget | Free Notes | Planning | Jobs | Operations | Materials | Requisitions | Tools and Facilities | Returns | Permits | CO Information | Sub Contract | Journal | Scheduling

Work Description: work descr | Job Description:

Prepare Codes
 Op. Status: | Contractor: | Event: | Sub Contract No: | Progress Template: | Operations follow Work Order Status

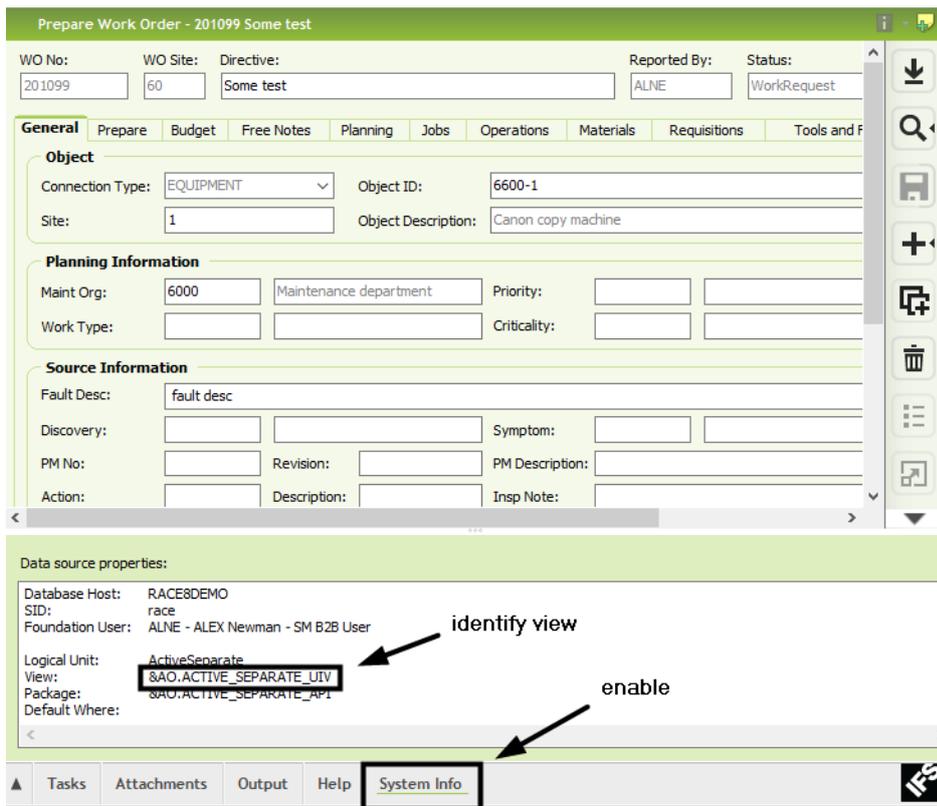
Planning Schedule
 Entry Date: 2017-08-11 13:34:16 | Execution Time: | Planned Start: | Planned Completion: | Total Man Hours: 0 | Earliest Start: | Fixed Start: | Allocated Hrs: 0 | Required Start: | Latest Completion: | Remaining Hours: 0 | SLA Req Start: | SLA Latest Comp: | Sched Const: |

Latest Transaction: New | Warranty Type ID: | Supplier:

Object Detail
 Test Point ID: | **Signatures**
 Work Leader: | Prepared By: | **Executed By:** ALNE | Fixed Executed By

Project Budget
 Man Hours: | **Work Center Load**
 Work Center: | Resource: | Load: 0

The work order has executed by set to user ALNE. Next step is to identify what view this in IFS to write our query, this is being done by enabling the system info task pane (note that common practice in IFS Applications is to not have this task pane available for all end-users, if you don't see it please consult your local IFS Applications system administrator):



Prepare Work Order - 201099 Some test

WO No: 201099 | WO Site: 60 | Directive: Some test | Reported By: ALNE | Status: WorkRequest

General | Prepare | Budget | Free Notes | Planning | Jobs | Operations | Materials | Requisitions | Tools and F

Object
 Connection Type: EQUIPMENT | Object ID: 6600-1 | Site: 1 | Object Description: Canon copy machine

Planning Information
 Maint Org: 6000 | Maintenance department | Priority: | Work Type: | Criticality: |

Source Information
 Fault Desc: fault desc | Discovery: | Symptom: | PM No: | Revision: | PM Description: | Action: | Description: | Insp Note: |

Data source properties:
 Database Host: RACE8DEMO
 SID: race
 Foundation User: ALNE - ALEX Newman - SM B2B User
 Logical Unit: ActiveSeparate
 View: **&AO.ACTIVE_SEPARATE_UIV**
 Package: &AO.ACTIVE_SEPARATE_API
 Default Where: |

Tasks | Attachments | Output | Help | **System Info** | IFS

Figure 74: System info

In this case, it turns out that the view is being called &AO.ACTIVE_SEPARATE_UIV, and we can write a simple 'select * from &AO.ACTIVE_SEPARATE_UIV' in our favorite SQL query tool e.g. PL/SQL Developer:

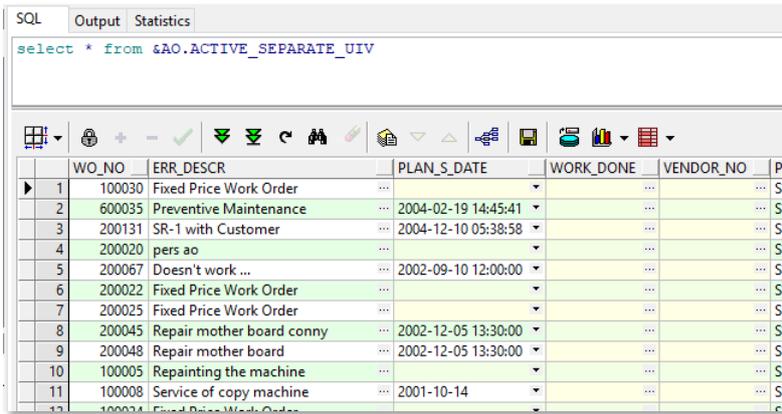


Figure 75: SQL

The query used in IFS Applications can easily be found by turning on the debug console:

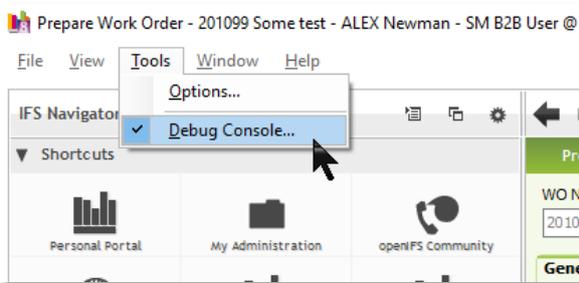


Figure 76: Prepare Work Order

For instance:

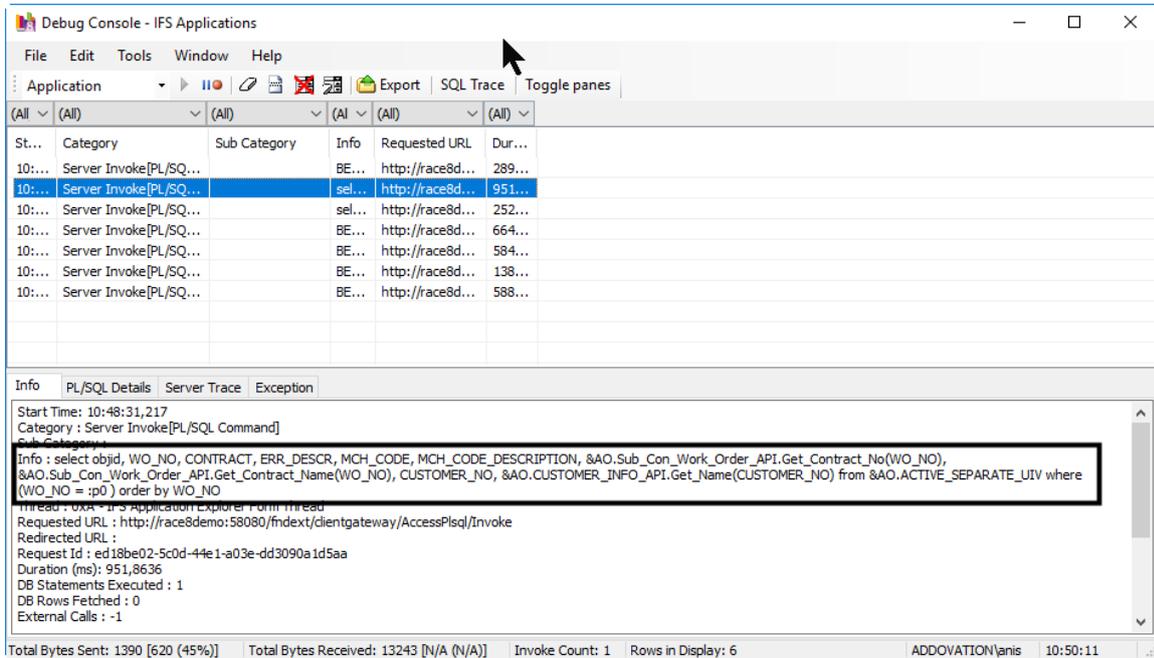


Figure 77: Debug console

Modify the query as appropriate. An example of the query

SQL Query Example:

```
select
t.WO_NO, (t.wo_no || ' - ' || t.err_descr) "DESCR", t.REG_DATE, t.STATE, t.PLAN_F_DATE,
t.PLAN_S_DATE, t.WORK_MASTER_SIGN, t.PREPARED_BY, t.ERR_DESCR, t.WORK_DESCR_LO,
NVL2(t.performed_action_lo, t.ERR_DESCR_LO || CHR(13) || CHR(10) || CHR(13) || CHR(10) ||
substr(t.performed_action_lo, 0, 1996), t.ERR_DESCR_LO) ERR_DESCR_LO, t.MCH_CODE,
t.MCH_CODE_DESCRIPTION, t.OBJVERSION,

t.PLAN_HRS, t.ORG_CODE, t.WORK_TYPE_ID, t.CONTRACT, t.CUSTOMER_NO,
&AO.CUSTOMER_INFO_API.Get_Name(t.CUSTOMER_NO) CUSTOMER_NAME,

&AO.work_type_api.Get_Description(t.WORK_TYPE_ID) WORK_TYPE_DESCR,

&AO.organization_api.Get_Description(t.CONTRACT, t.ORG_CODE) ORG_CODE_DESCR,

&AO.person_info_api.Get_Name(t.WORK_MASTER_SIGN) "REPORTED_BY_NAME",

&AO.comm_method_api.Get_Default_Phone('PERSON',t.WORK_MASTER_SIGN) "REPORTED_BY_PHONE",

&AO.comm_method_api.Get_Default_Email('PERSON',t.WORK_MASTER_SIGN) "REPORTED_BY_EMAIL",

&AO.person_info_api.Get_Name(t.prepared_by) "PREPARED_BY_NAME",

&AO.comm_method_api.Get_Default_Phone('PERSON', t.prepared_by) "PREPARED_BY_PHONE",

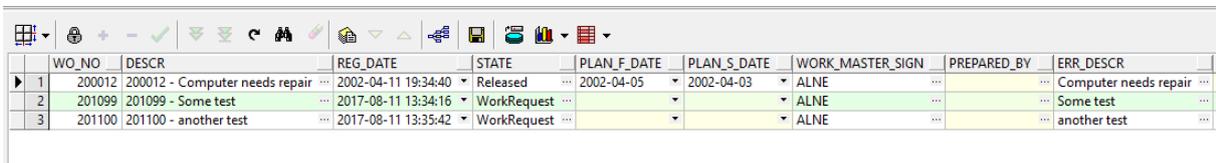
&AO.comm_method_api.Get_Default_Email('PERSON', t.prepared_by) "PREPARED_BY_EMAIL",

t.VENDOR_NO,

&AO.supplier_info_api.Get_Name(t.VENDOR_NO) "SUPPLIER_NAME"

from &AO.active_separate t where t.WORK_MASTER_SIGN =
&AO.Person_Info_Api.Get_Id_For_User(&AO.Fnd_Session_Api.Get_Fnd_User())
```

Make sure the result is as expected (either in PLSQL or as a quick report):



	WO_NO	DESCR	REG_DATE	STATE	PLAN_F_DATE	PLAN_S_DATE	WORK_MASTER_SIGN	PREPARED_BY	ERR_DESCR
1	200012	200012 - Computer needs repair	2002-04-11 19:34:40	Released	2002-04-05	2002-04-03	ALNE		Computer needs repair
2	201099	201099 - Some test	2017-08-11 13:34:16	WorkRequest			ALNE		Some test
3	201100	201100 - another test	2017-08-11 13:35:42	WorkRequest			ALNE		another test

Figure 78: Result

In our case, 3 rows are being returned so that's fine.

5.2 Step 2: Create new app

Continue by adding a new app: Ex: Application name as “My Active Separate”, create a page and design the page.

Before we proceed, we should have some idea on how we want the layout to look like, so we recommend drawing a wire frame on paper or using some 3rd party tool. We will proceed by showing how you can achieve this layout:



Figure 79: Mobile Action

Go back to the editor and scroll down in the menu until you find the “List Button”, by using drag and drop you can easily map it onto your application, and by clicking on the item in the app we can modify its properties:

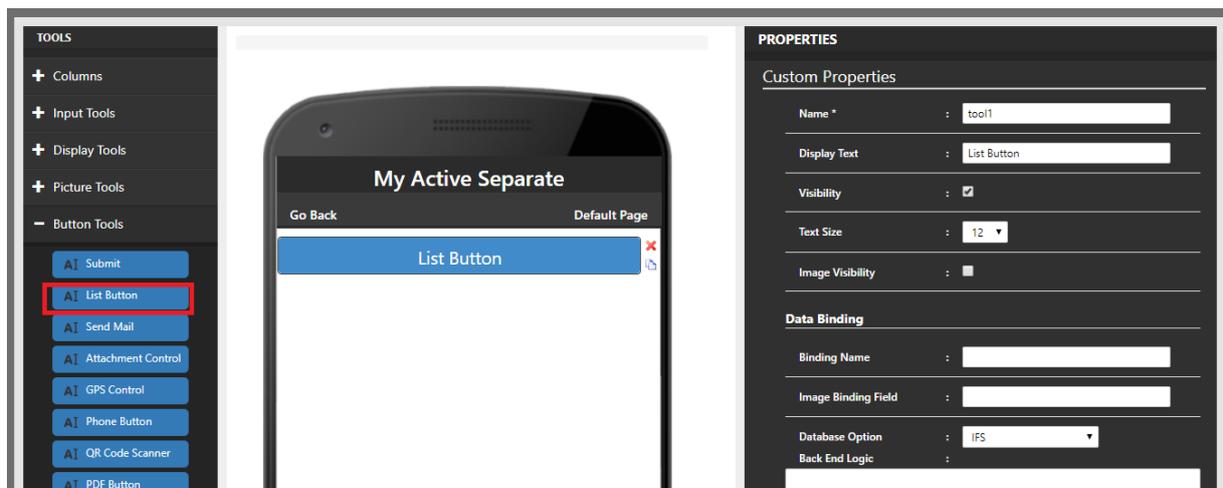


Figure 80: Design page

Change the custom properties to:

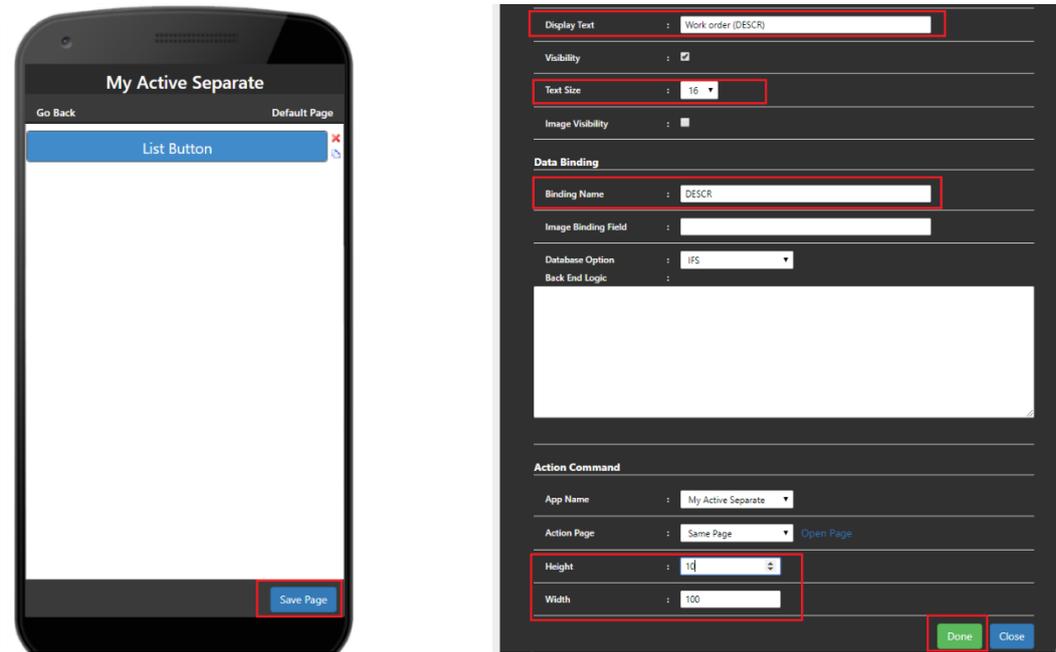


Figure 81: Custom Properties

and finalize result by pressing “Done” and “Save Page”.

Next drag and drop the “Double columns” (since we want to have two columns in the result):

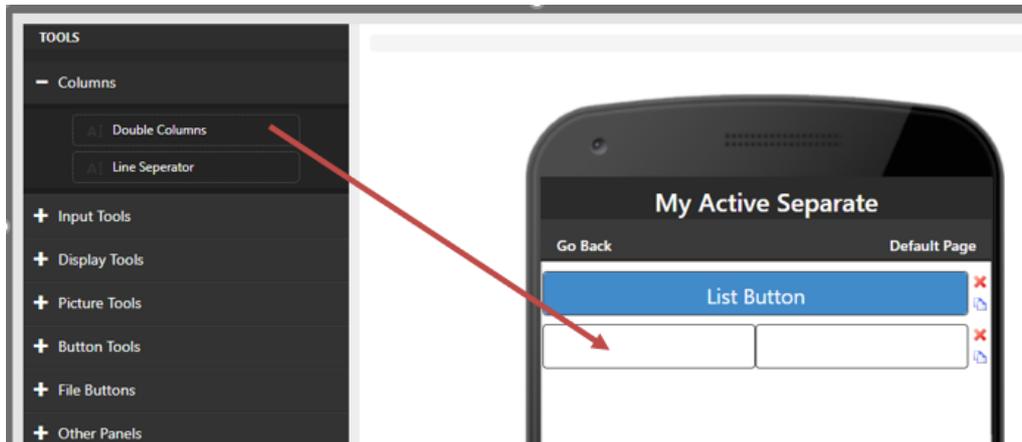


Figure 82: Double Columns

and finally, we will drag and drop the labels into each column, first the pure text label:

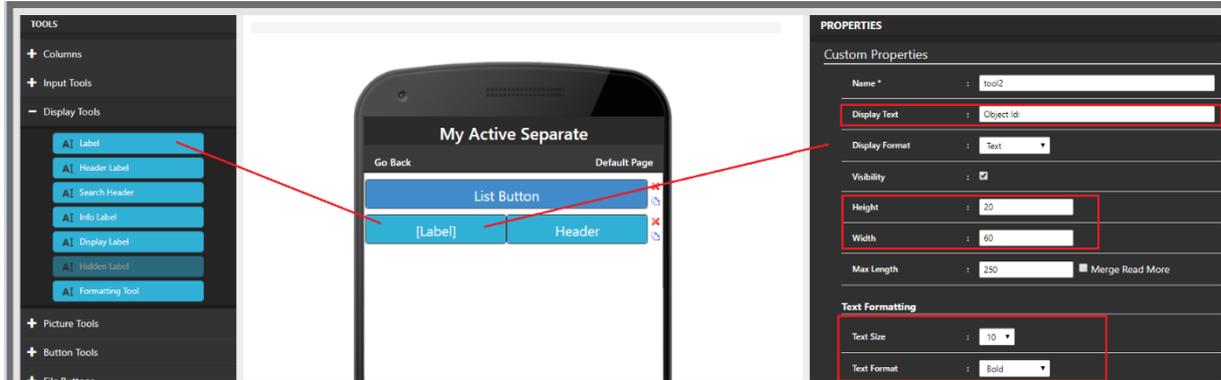


Figure 83: Label properties

Remember to press “Done” after changing properties (otherwise changes will be lost).

Now drag a label again into the second column and click on it to get the properties, change height and text size:



Figure 84: Custom Properties

If you want to sort or re-arrange tools into another place, then click Rearrange Controls.

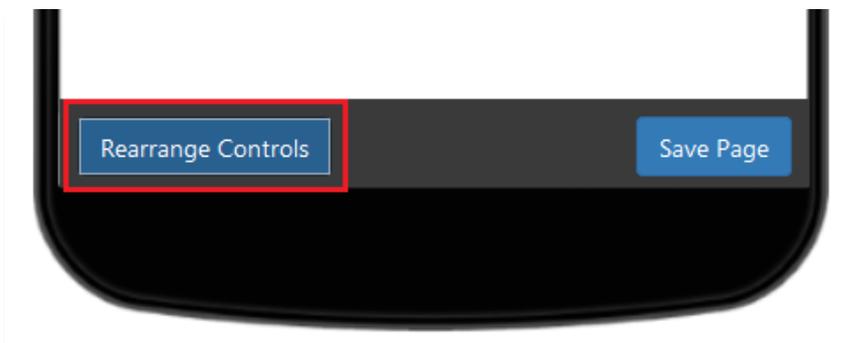


Figure 85: Rearrange mode

You won't be able to change properties in 'Rearrange Controls' mode. Hence you need to click 'Edit Mode' to go back to change properties.



Figure 86: Edit Mode

Add the binding towards our SQL query by simply entering the field name:

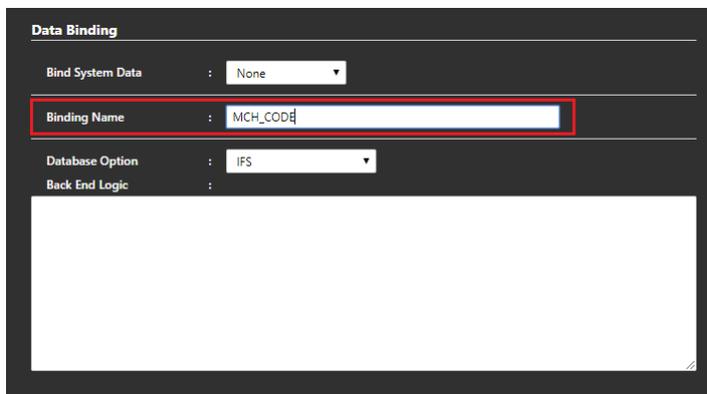


Figure 87: Binding Name

Next repeat the process by adding an additional “Double columns”, add two more labels in where first one will be “Work descr.:" and bind the last label towards the SQL field ERR_DESCR:

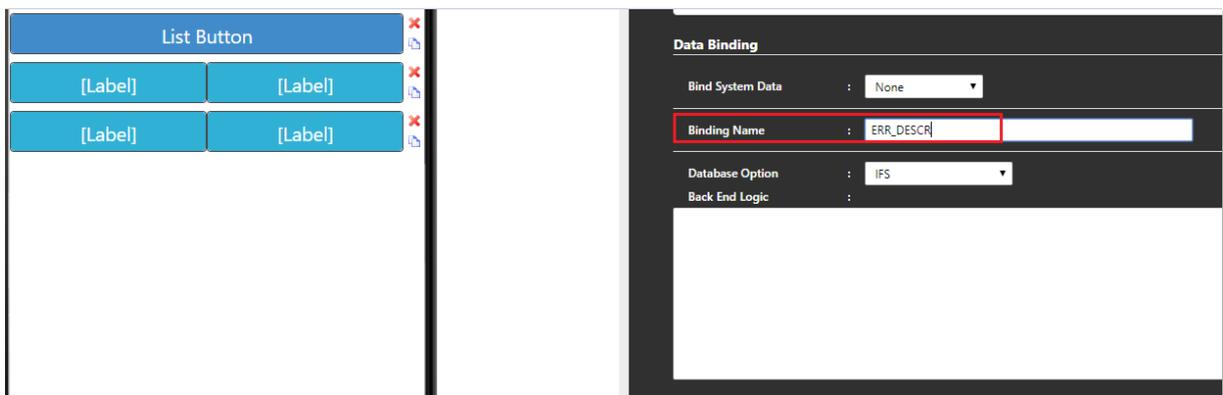


Figure 88: Binding Name

Finish off our layout by pressing “Done” and last “Save Page” as stated above.

5.3 Test App

Now it is time to verify the results in the app, open Mobile Action and select cloud URL, enter system id and the credentials required:

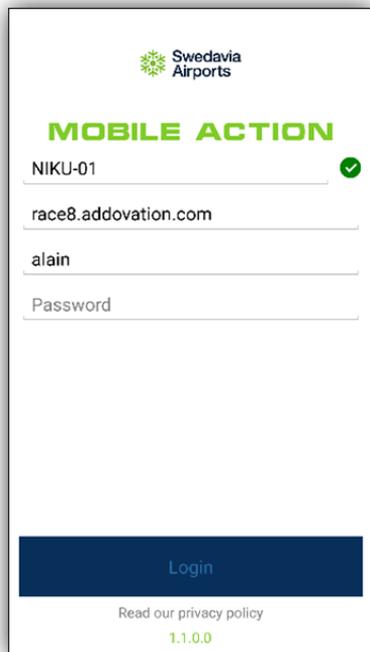


Figure 89: Mobile Action Login

After a successful login, assuming your end-user has the necessary credentials you will find the application in the main menu list:

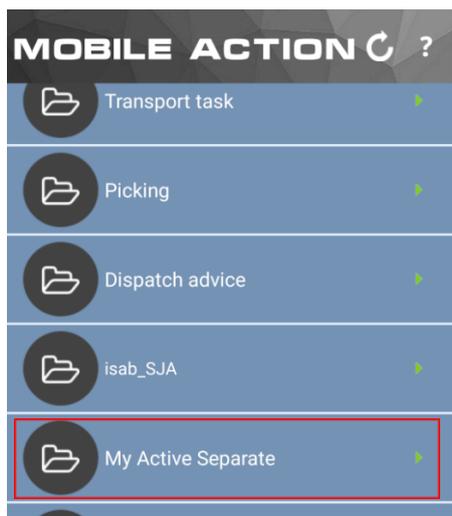


Figure 90: Menu

By tapping on the item, it should execute the SQL towards IFS and display the result according to the design we just created:



Figure 91: Result

Verify that same result is being displayed in the app as in the SQL result.

Press the help icon to verify that the help text is also being displayed:

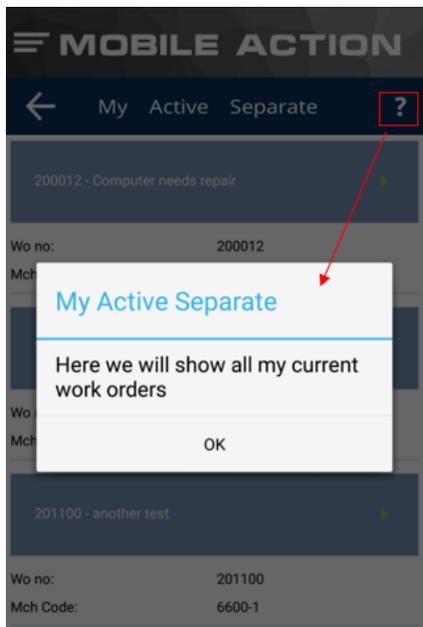


Figure 92: Help

Having help texts increases the user friendliness of the applications being created and acts as user guidance. Next is to create a detail view and add the button to change status.

5.4 Step 4: Create details view and action button

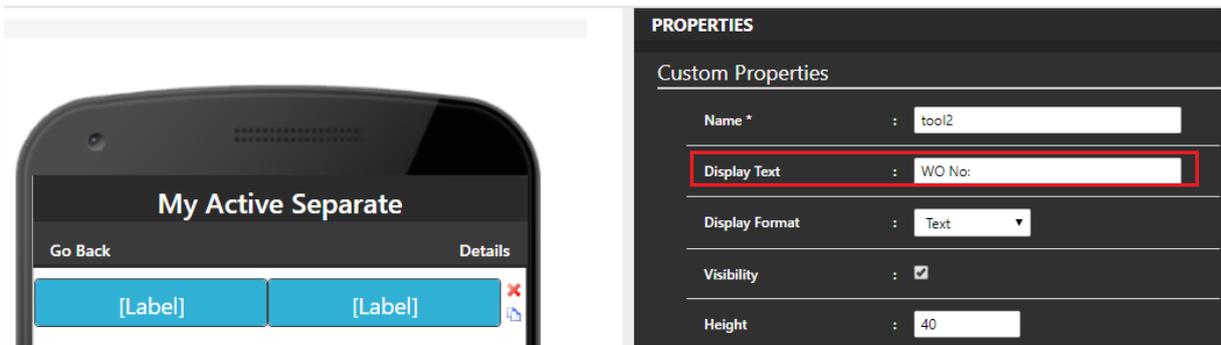
Create a new page for our application in the Web Admin interface and Supply the following information:

PROPERTIES
Default Page Properties

Page Name	Details
Page Title	Report In
Page Title2	
Page Type	Details
Database Option	IFS
Backend Logic	
Font Size	14
<input type="checkbox"/> Font Size Option	
<input type="button" value="Update"/>	

Figure 93: Supply information

and save page by pressing “Update”. Head to the design mode, add 2 columns and 2 labels to see what work order we are on, for instance “Wo No:”



and bind the second label to

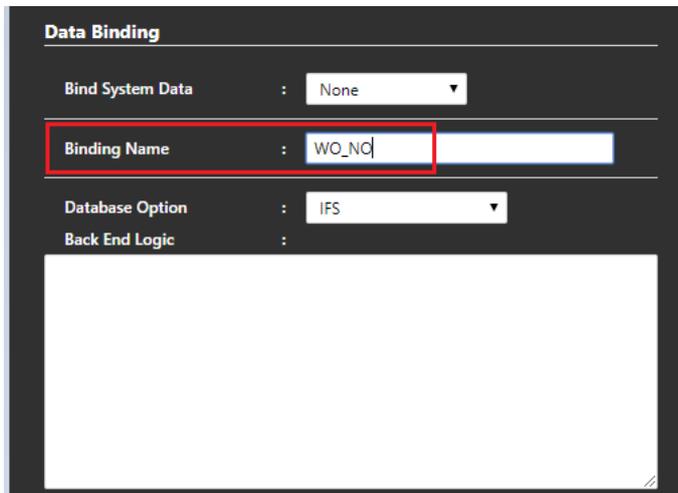
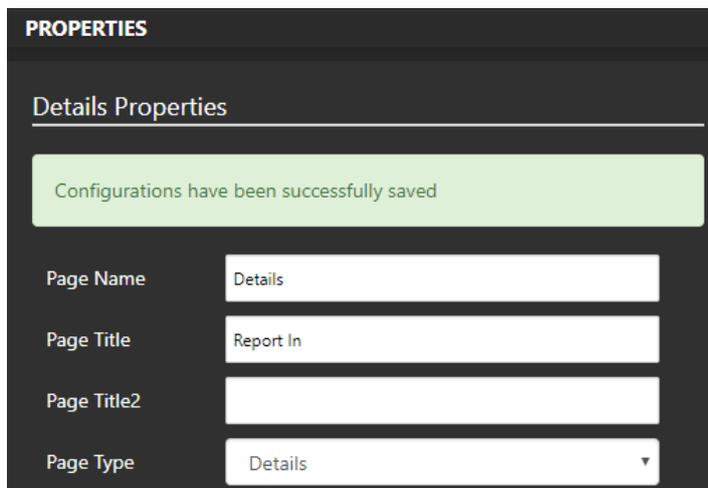


Figure 94: Data Binding

Press “Done” and “Save Page” and add state as well and repeat the process, verify that configuration was saved successfully:



Now we are ready for the final step in our mobile application to create our button, bind it to the work order and execute a simple custom PLSQL statement, in its simplest form it may look like this:

```
DECLARE
BEGIN
    &AO.ACTIVE_SEPARATE_API.Release_Work_Order (:WO_NO_);
END;
```

Drag and drop your button into the details view and configure accordingly, paste the logic and set text on the button:

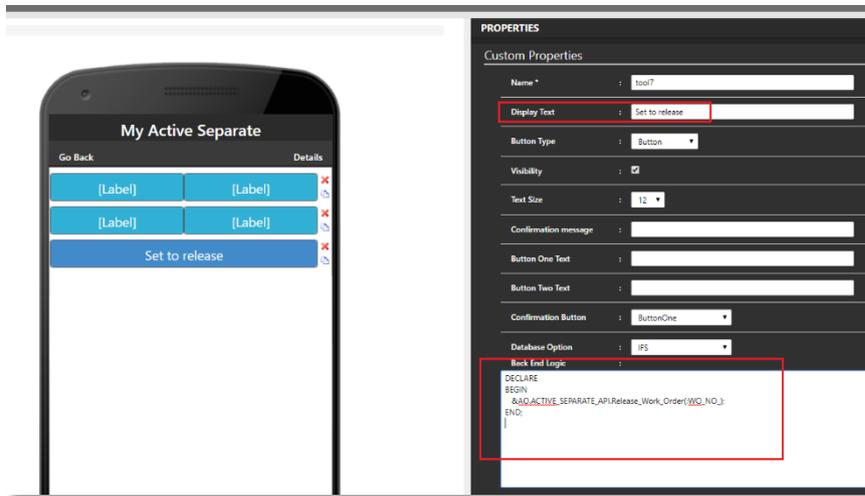


Figure 95: Back End Logic

Last step is to tell the listbutton we have that we want to go to the details view on tapping it. Go to the “My Active Separate”-pages and hit the “Design” button:

Tap on the “List Button” in the editor and change the Action Page to “Details” as we just created:

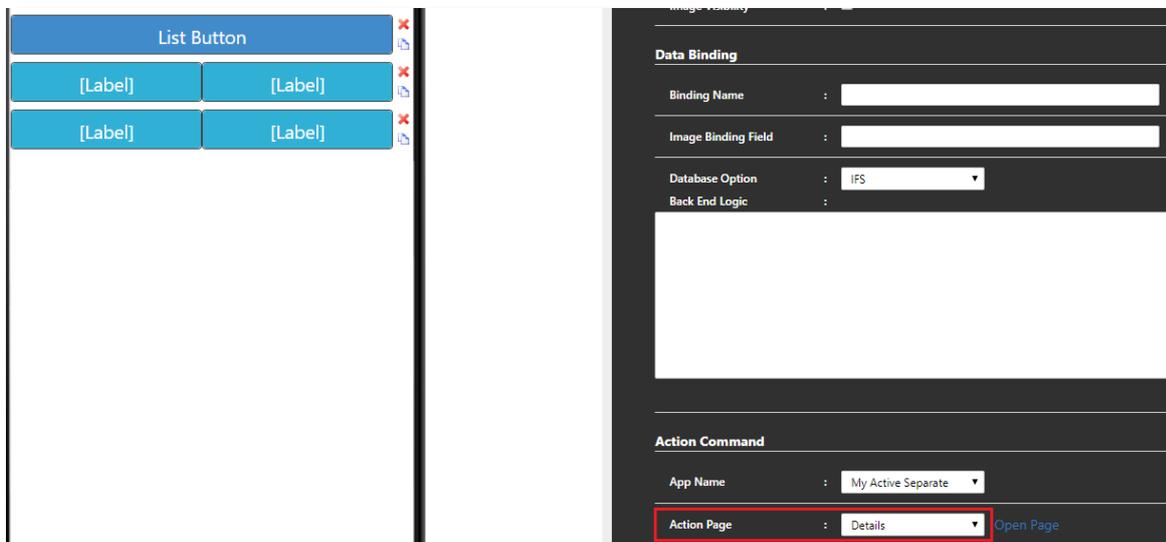


Figure 96: Action Page details

Finish off by pressing “Done” and “Save page” and we are finally ready to test our app.

5.5 Step 5: Test the app

Press the refresh icon on the app to re-load all configurations:

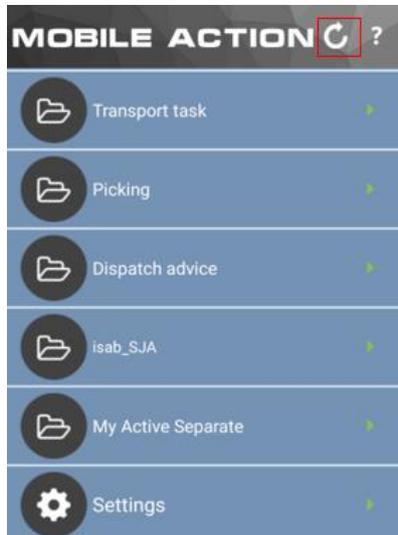


Figure 97: Refresh

Then tap on:

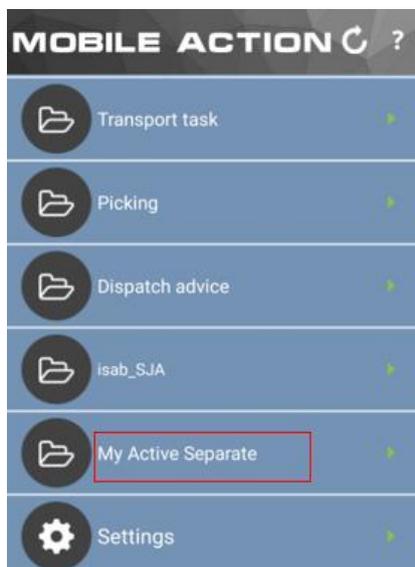


Figure 98: Menu

Then tap on an item in the list e.g.



Figure 99: Tap on list item

Verify status in details view:

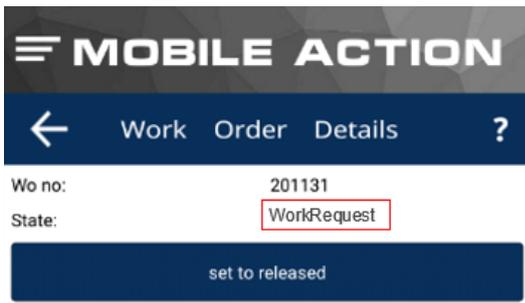


Figure 100: State

press the button “set to release” to execute our PLSQL block and verify that a message appears:

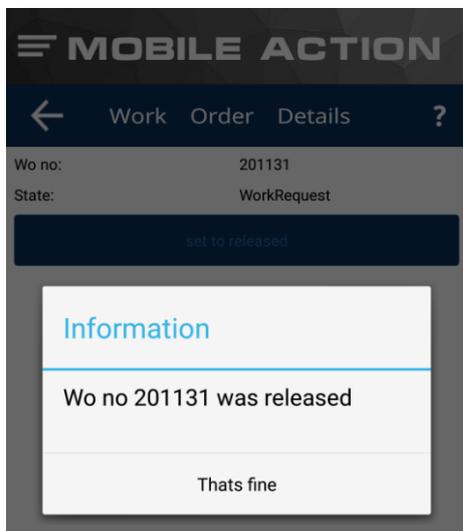


Figure 101: Set to release message

Finally, verify that the work order has reflecting changes in IFS Applications:

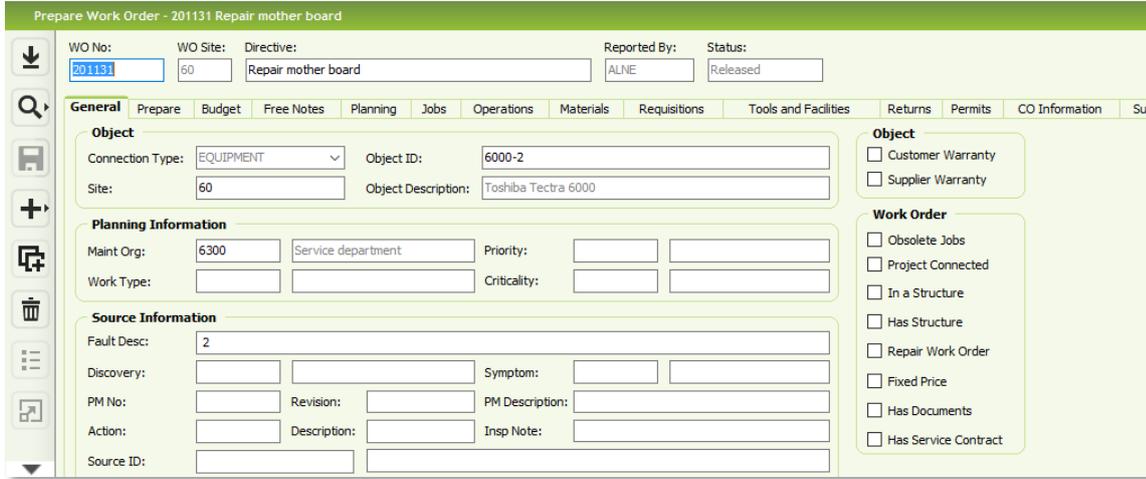


Figure 102: IFS – Prepare work order

Congratulations, you have created your first mobile application!

6 Page Design Tools

There are two types of columns which can be used application pages

1. Line Separator
2. Double Columns

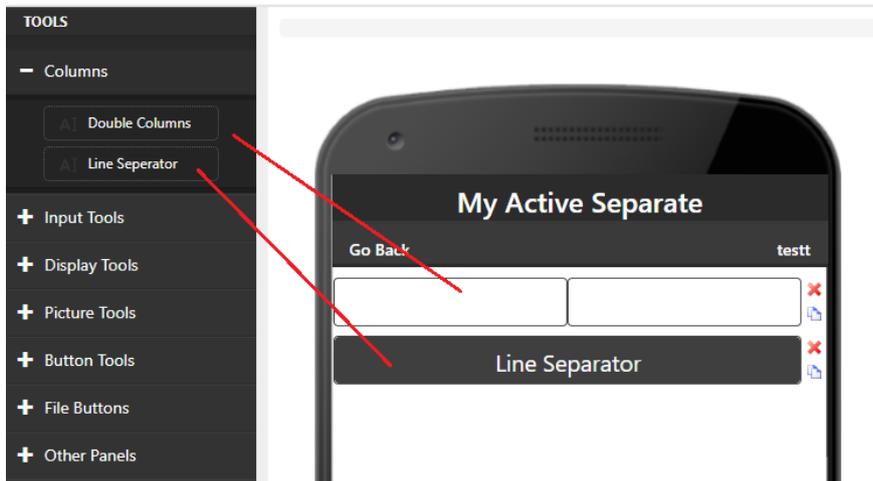


Figure 103: Columns

Also, there are several types of input tools, display tools, button tools, picture tools, file buttons & panels. Users can just drag each to the application. After adding a tool Users can change the properties of each tool.

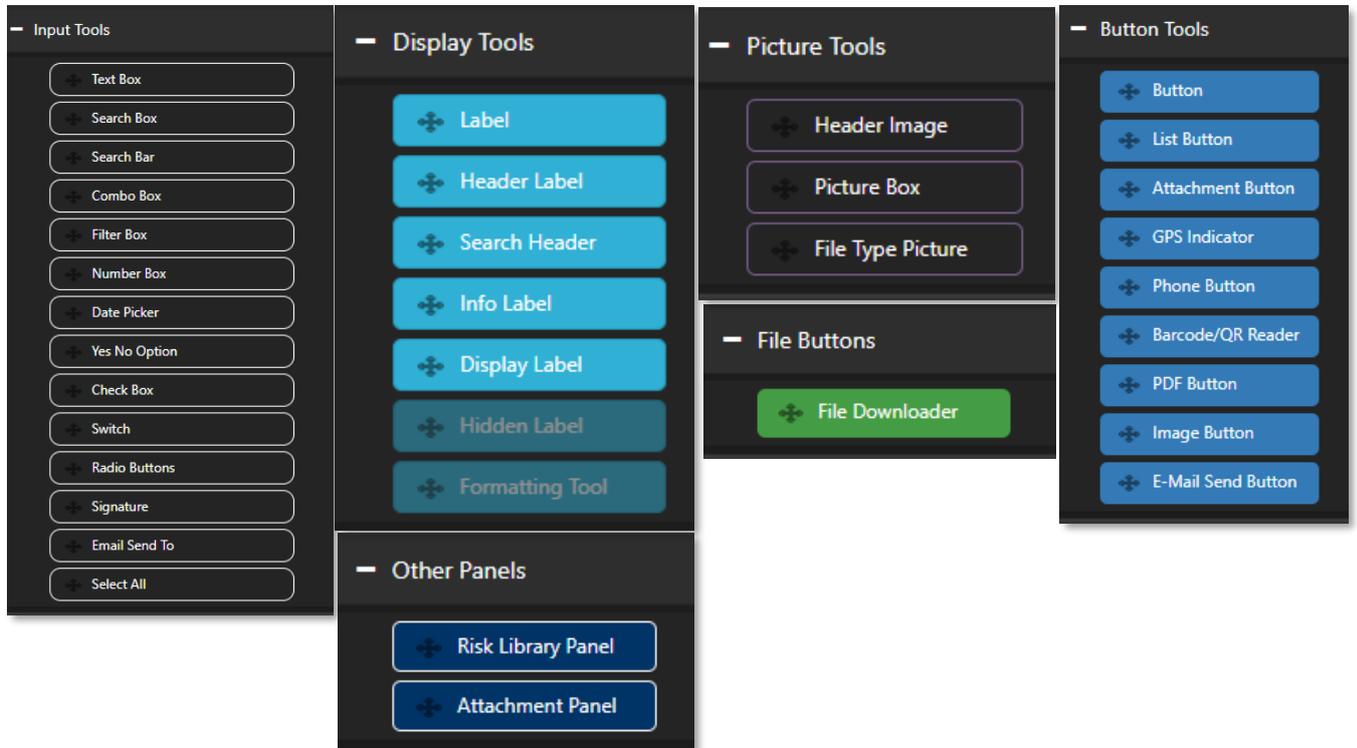


Figure 104: Tools

7 Input Tools

7.1 Text Box

User can type and edit same as normal textbox.



Figure 105: Text Box

7.2 Search Box

7.2.1 Using PL/SQL to populate search boxes and controls

After dragging a search box into the application users can change its properties by clicking on that search box. For search boxes users can enter the Binding Name, in or out & can specify the backend logic for search criteria. Then it will populate the data according to the logic.



Figure 106: Search Box

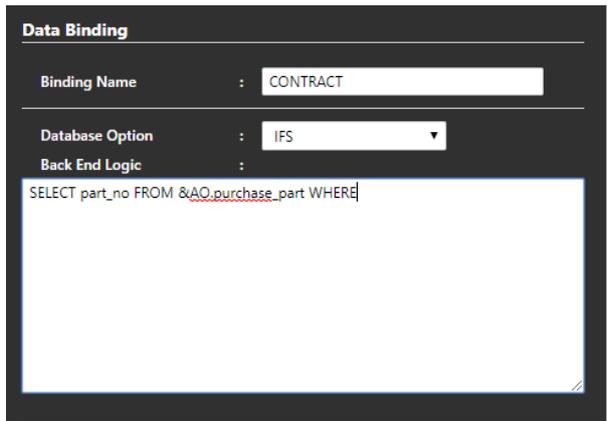


Figure 108: Enter Search Box details



Figure 107: Populated data

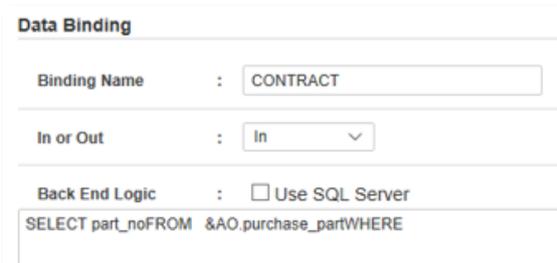


Figure 109: Enter the details for Search Box

7.2.2 Search result count

Go to the web admin & add both search header & search box tools to the page.

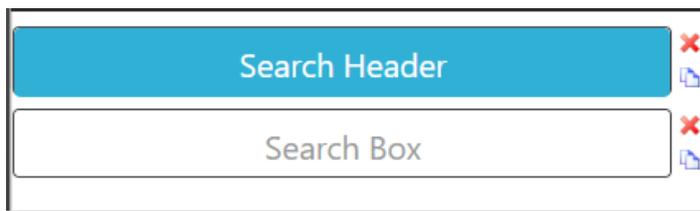


Figure 110: Search result

Under the search box properties Result count, enter the 'Search Header Name' inside the result count space.



Figure 111: Result count

Now you can see the result count for the search in mobile client.

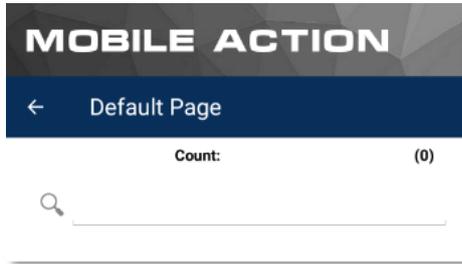


Figure 113: Count



Figure 112: Show the result count

7.3 Search Bar

After dragging a search bar into the application users can change its properties by clicking on that. You need to add a separate text box to display search bar results.



Figure 114: Search Bar

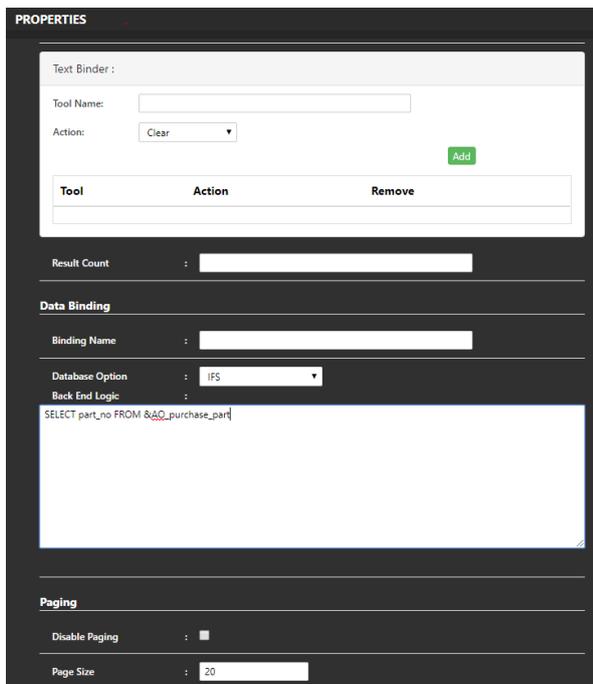


Figure 115: Properties

Search Bar appears in mobile client like this.

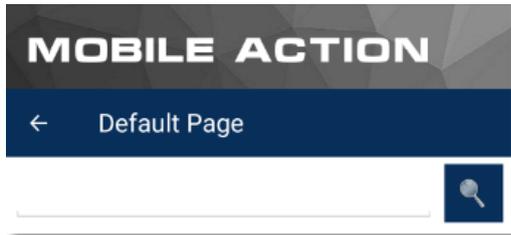


Figure 116: Mobile Action

7.4 Combo Box



Figure 117: Combo Box

7.4.1 Relationship between Combo Box setup

This will discuss under 7.4.2- No 5.

7.4.2 Combo Box Properties

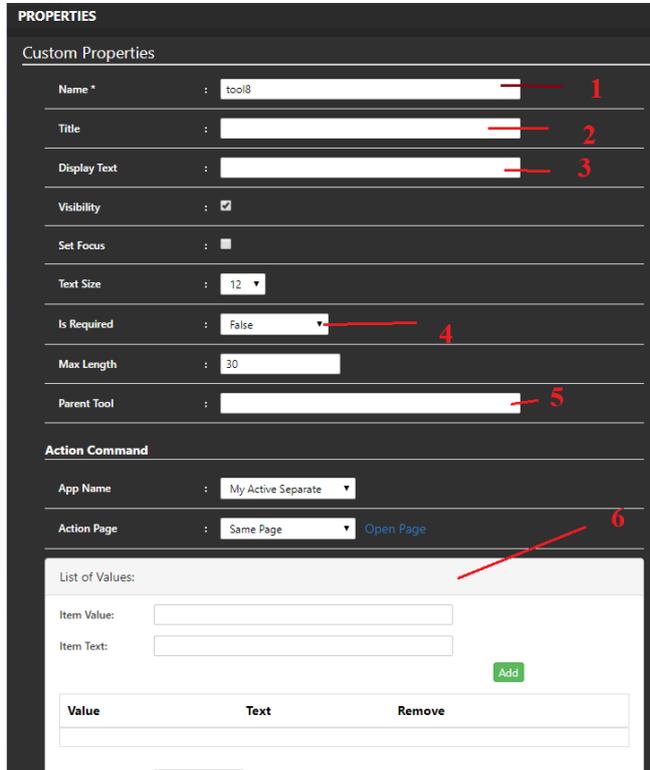


Figure 118: Combo Box Properties

1. Name:

By default, there is a name to the combo box. Users can change that.

2. Title:

Title will display top of the combo box.

Select type 

3. Display Text:

This will populate the data to the combo box.

Display Text : {ERR_TYPE} - {ERR_TYPE_DESC} 20 - Mechanical 

4. Is Required:

If this set to true it will a must to select a value to the combo box.

5. Parent Tool: **Relationship between Combo Box setup**

Users should untick the 'Is Auto Load' option on bottom of the properties to use this tool.

Is Auto Load :

You need to enter the 1st combo box name in parent tool.

Parent Tool : tool4

If you don't use parent tool you can keep it as empty. Put the tick on 'Is Auto Load' option.

Parent Tool :

When we use two combo boxes, the 2nd combo box values will load only after select a value to the 1st combo box. This is what will happen from parent tool. By using this tool users can combine many combo boxes as a hierarchy. If the 1st combo box value changed other child combo box values also will be changed.

6. List of Values:

Users can hard code the data to the combo box from list of values. Users can predefine the values to the combo box.

7.4.3 Combo Box Data Binding

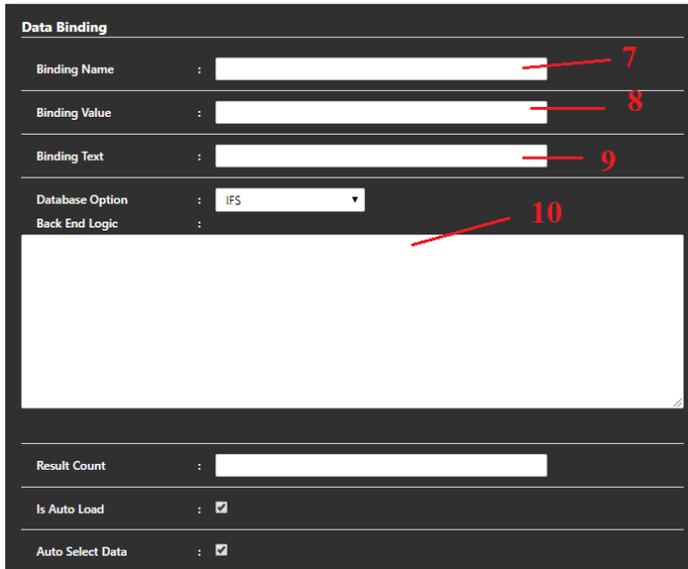


Figure 119: Combo Box data binding

7. Binding Name:
8. Binding Value: This value connects with ifs data and populate values into combo box.
9. Binding Text: This is the display format of values of the combo box data.
10. Back End Logic: Retrieve data for controller/element. Here users can apply conditions.

Select a value to a combo box from mobile action mobile client.



Figure 121: Mobile Action

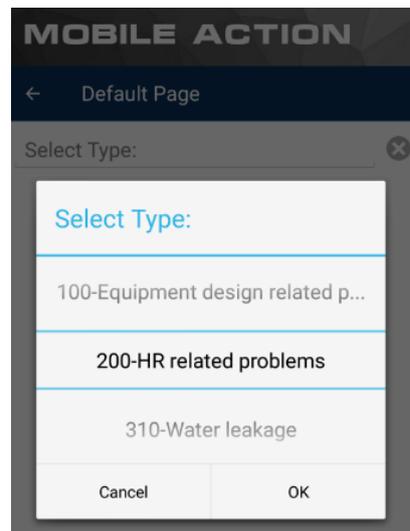


Figure 120: Select type

7.5 Filter Box



Figure 122: Filter Box

Filter Box also has same properties of Combo Box. The difference is Filter Box allows to filter search results by typing.

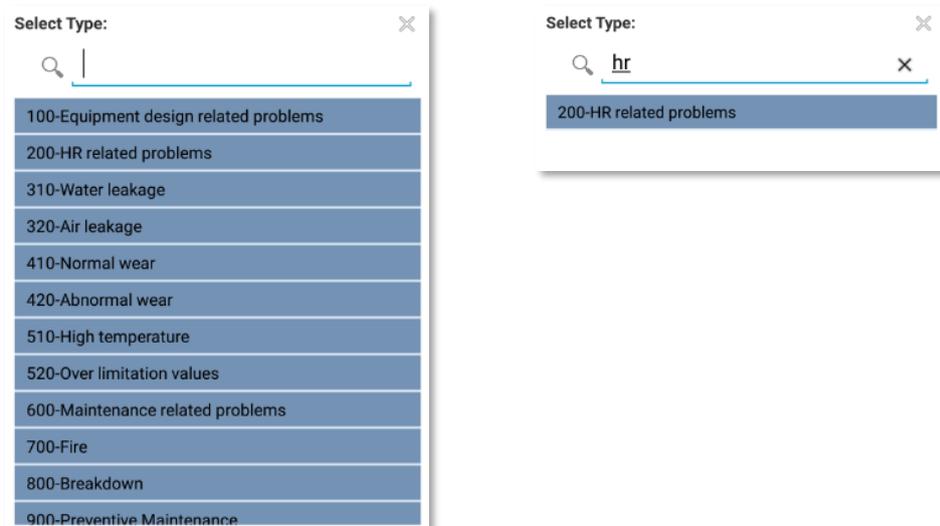


Figure 123: Mobile Action

7.6 Number Box

This is only allowed for input numbers. Work as a text box



Figure 124: Number box

7.7 Date Picker

Date Picker use to display the date. You can give a specific date or current date as an initial display date.



Figure 125: Date Picker

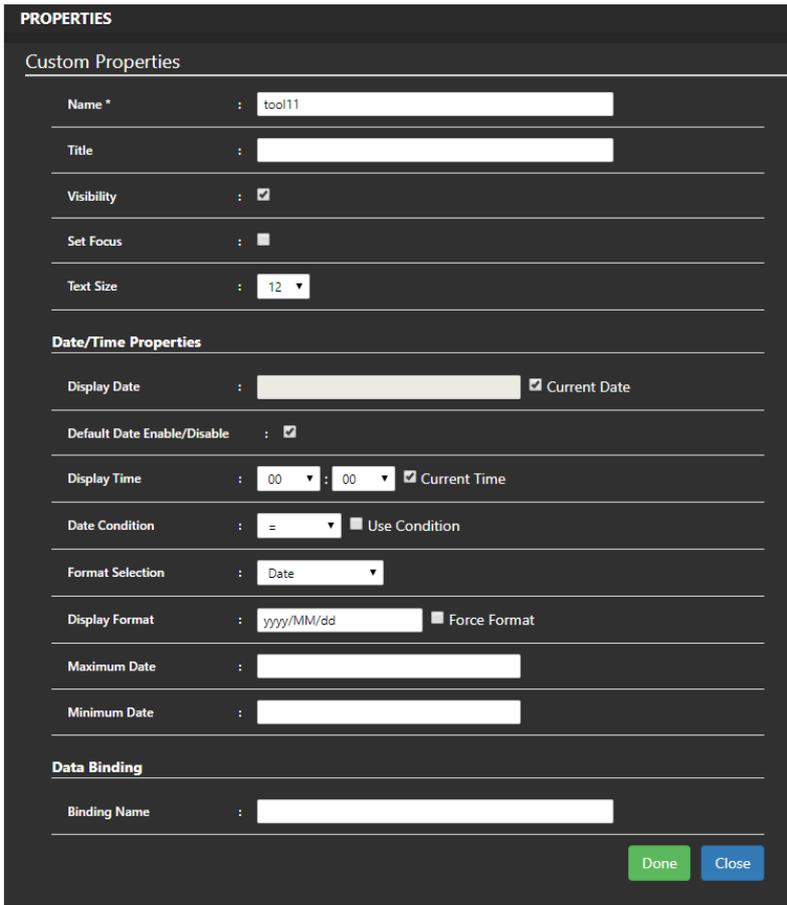


Figure 126: Date Picker properties

Date Picker appears in mobile client like this. You can change the display format & you can apply the several conditions to this tool as shown in the properties.



Figure 127: Mobile Action

7.8 Yes, NO Option

Yes, No button in mobile client will support an action page. Also, it checks several conditions as well.



Figure 128: YesNo Option

PROPERTIES

Custom Properties

Name * : tool12

Display Text :

Visibility :

Text Size : 12

Width : 50

Checked : False

Action Command

App Name : My Active Separate

Action Page : Same Page [Open Page](#)

Perform Action : True Validate All

Data Binding

Binding Name :

Database Option : IFS

Back End Logic :

PDF Support

PDF Field Id :

Check Box Type : Text

PDF Text Size : 14

PDF Text Color :

Binding Count :

Figure 129: Yes No Option properties

When you switch on this button it will redirect to another page.



Figure 130: Mobile Action

7.9 Switch

Switch tool is an extended version of Yes, No tool where it supports to contains 3 options and all options are configurable.



Figure 131: Switch

7.10 Radio Buttons

Radio Buttons allows you to input a value from multiple values.



7.11 Signature

From signature tool you can provide your signature.



Figure 132: Signature

7.12 Email Send To

This is use to get email addresses from the phone book

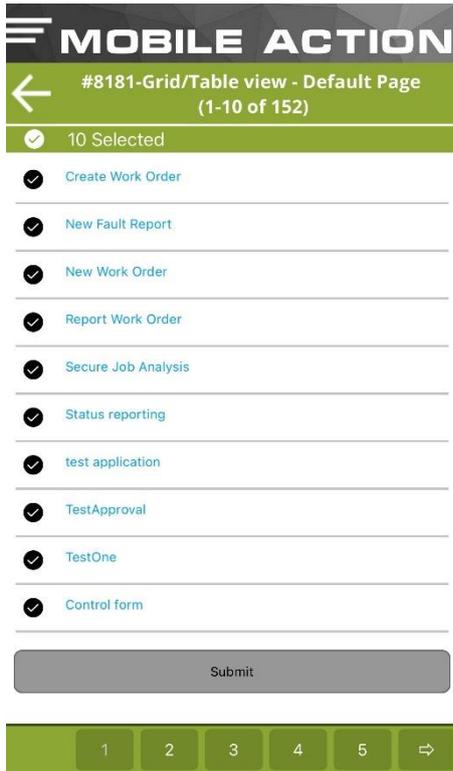


Figure 133: Email Send To

7.13 Select All



'Select All' allows to choose multiple values from a list panel in mobile client. When this tool is being used in a certain page another row will be displayed under the page header as follows.



8 Display Tools

8.1 Label

From label, you can just display data or set bind name: WO_NO



Figure 134: Label

8.2 Header Label

You can add this tool for headings.



Figure 135: Header

8.3 Search Header

Search header use to display the search count



Figure 136: Search Header

8.4 Info Label

Info label will change Font Color, Font Size, Font Style, Visibility, Clear Value, Background Color, Enable according to the formatting status.



Figure 137: Info Label

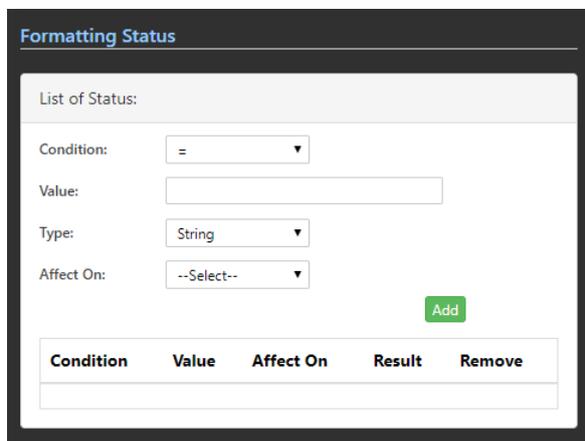


Figure 138: Formatting Status

8.5 Display Label

Two values are passes for this tool. Display Name is to display the title and value to display the value.

E.g.: Name= abc, value = 'abc' .



Figure 139: Display Label

8.6 Hidden Label

Hidden label could contain values but not visible for users. Ex. ID's and keys use to perform actions, and no need to display values to the user.



Figure 140: Hidden Label

8.7 Formatting Tool

Using formatting tool , user can enter other tools(ex: textbox – with Tool Name: tool2) and can select “Affect On” as Font Color, Font Size, Font Style, Visibility, Clear Value, Background Color, Enable and using “Add Tool” button it is add to the list.



Figure 141: Formatting Tool

Formatting Status

List of Tools:

Format Id:

Tool Name:

Affect On: --Select-- Add Tool

Tool Name	Affect On	Result	Remove
tool2	Enable	false	Remove
tool3	Visibility	false	Remove

Binding Name: 1

Condition: = 2

Value: 3

Type: String 4

Operator: And Add Binding 5

Name	Condition	Value	Type	Operator	Edit	Remove
llll	=	5164	String	And	Edit	Remove

Group Operator: And Add Operator

Add Formats

Name	Edit	Remove

Done Close

Figure 142: Formatting Status

1. Binding Name: Name of the binding field
2. Condition: There are several conditions available [=, <, >, <>]
3. Value: Enter the value
4. Type: There are several types available, [String, number, decimal, date, date time, time, Boolean]
5. Operator: And, OR operators are available

User can add formats for the other tools ,base on the conditions here.

9 Button Tools

9.1 Submit

9.1.1 Passing variables between pages

It should be a detail page to accept the values from another page.

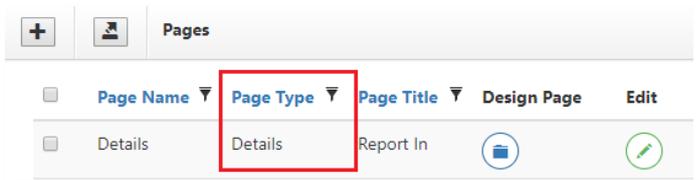


Figure 143: Set the action page type as Details

9.1.2 How to set the Action Page of a Button

Ex: In 'Separate AO details' button properties, set the action page as 'Separate AO Details'. When click on 'Separate AO details' button it will redirect to the 'Separate AO Details' page since the 'Separate AO details' button's action page is set to 'Separate AO Details' page.



Figure 144: Set the Action Page

9.1.3 Bind the data between two pages

- Main page will return "wo_no_desc" variable.
- 'Separate AO details' button's action page is set to 'Separate AO Details' page .
- In 'Separate AO Details' page under **data binding** set the Binding Name as "wo_no_desc" (which comes from Main page)
- Now the vatriable values are passing from one page to another.

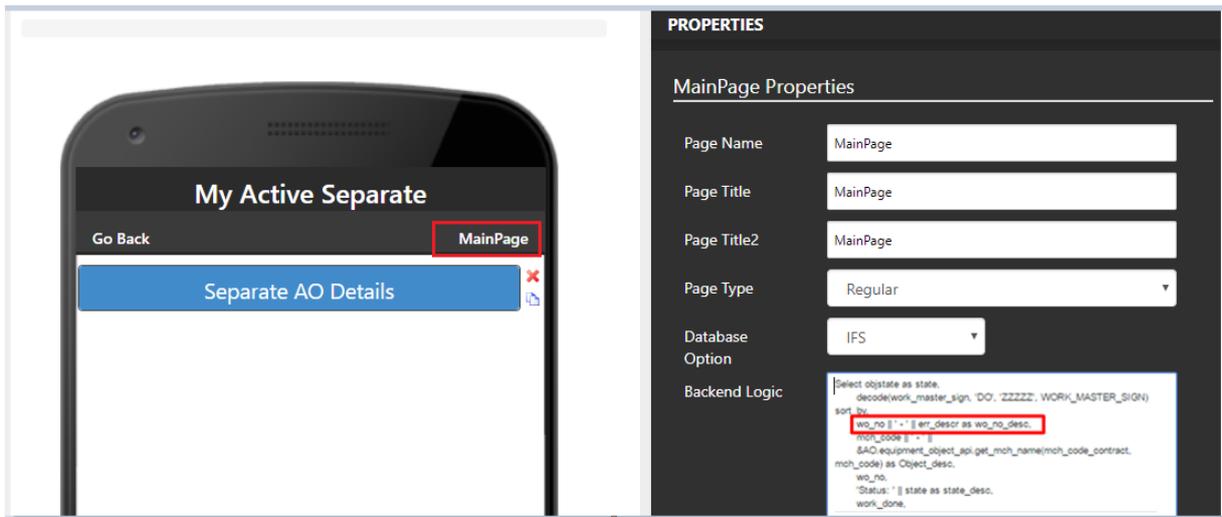


Figure 145: Main Page

9.1.4 Text Binder

We can set Text Binder for each button. From Text Binder, it will perform clear or Set Default actions for selected tool/tools when click on the button.

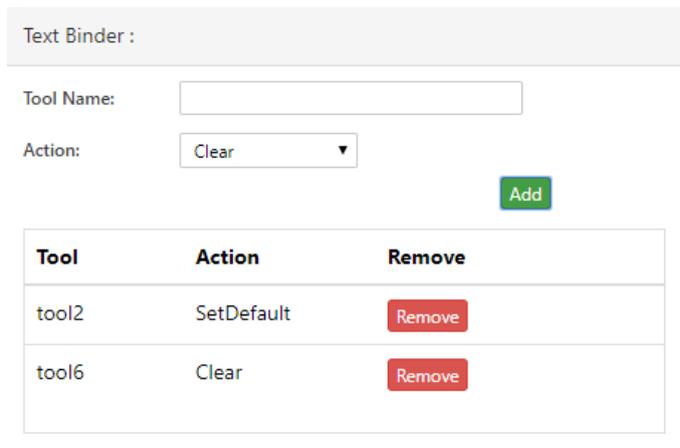


Figure 146: Text Binder

9.1.5 Dynamic Dialog

Dynamic Dialog boxes should create from list of messages in mobile action web admin. User can view it in Button properties **List of Operations** --> **List of Messages**

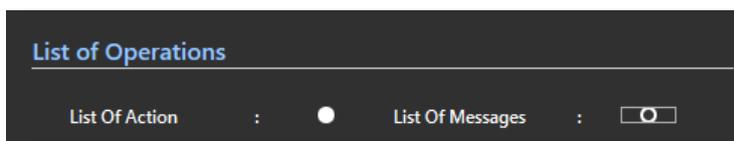


Figure 147: List of Messages

List of Messages:

Database:

Backend Logic:

```
select 'OK' as status from Dual
```

Execute after main script:

Conditions

Binding Name:

Condition:

Value:

Type:

Operator:

Name	Condition	Value	Type	Operator	Edit	Remove

Group Operator:

Message Settings

Post Execution:

Display Message:

Dialog Type:

Custom Msg:

Header:

Button One:

Button Two:

Confirm. Button:

App Name:

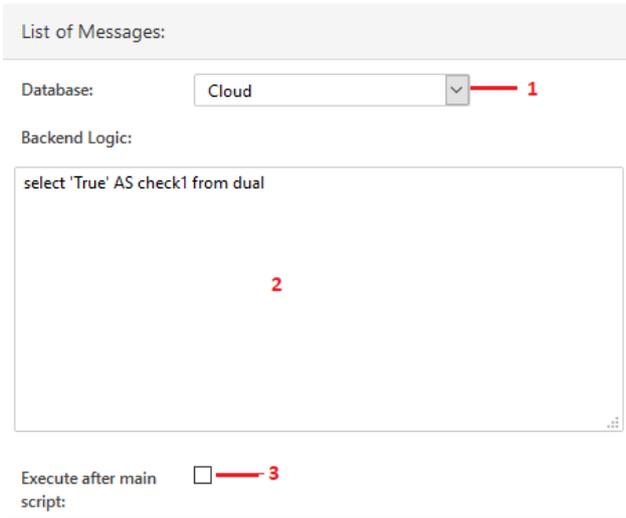
Action Page:

Display Msg	Custom Msg	Edit	Remove
Warning	Warning Message	<input type="button" value="Edit"/>	<input type="button" value="Remove"/>
Confirmation	Do you want to continue?	<input type="button" value="Edit"/>	<input type="button" value="Remove"/>

Figure 148: List of Messages

In here we can see three sections.

- **Database Command**



List of Messages:

Database: Cloud 1

Backend Logic:

```
select 'True' AS check1 from dual
```

2

Execute after main script: 3

Figure 149: Database Command

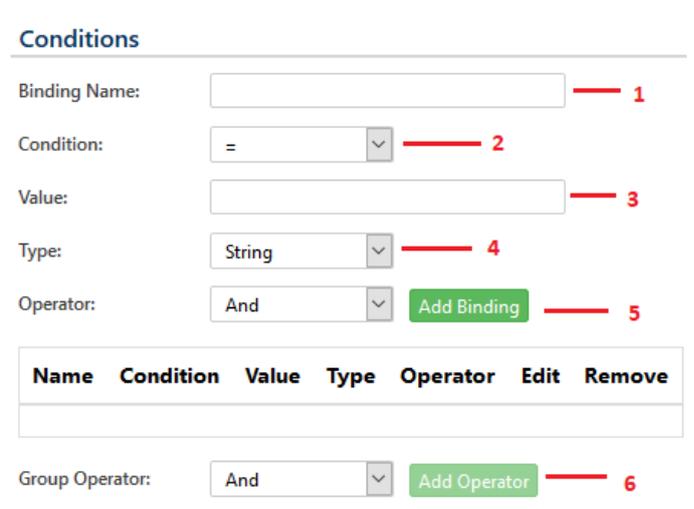
1 - Select Database type (Cloud/IFS)

2 - Enter Backend Logic

3 - If you want to execute this command after Main Backend Logic then tick this option.

- **Conditions**

User can enter conditions according to the backend logic or any other conditions. There is a group facility also available for this.



Conditions

Binding Name: 1

Condition: = 2

Value: 3

Type: String 4

Operator: And 5 Add Binding

Name	Condition	Value	Type	Operator	Edit	Remove

Group Operator: And 6 Add Operator

Figure 150: Conditions

1. Binding Name: Name of the binding field
2. Condition: There are several conditions available [=, <, >, <>]
3. Value: Enter the value
4. Type: There are several types available, [String, number, decimal, date, date time, time, Boolean]
5. Operator: And, OR operators are available
6. Operator: And, OR operators are available. User can group Conditions from this.

- **Message Settings**

Message Settings

Post Execution: 1

Display Message: Confirmation 2

Dialog Type: Alert 3

Custom Msg: Do you want to continue?

Header:

Button One: Yes

Button Two: No

Confirm. Button: ButtonOne

App Name: Commands

Action Page: Same Page

Save

Figure 151: Message Settings

1 - Post Execution

If you want to display message after executing main backend logic then tick post execution to display message after running the main script.

2 - There are four display messages (Error, Confirmation, Warning and Information)

3 - User Can Select four types of dialog types(Alert, Flash, Notifications and Flash With Notifications)

9.2 List Button

This contains all the details for records and by clicking on that you can pass those details to another page.



Figure 152: List Button

9.3 Attachment Button

9.3.1 How to send a file attachment (Image or Document)

Drag and drop 'Attachment Button'.

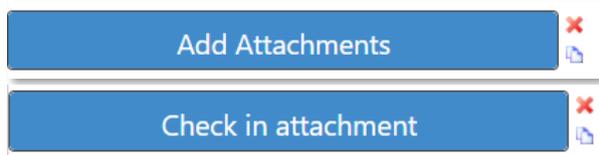


Figure 153: Attachment Checking In

1. Set the attachment properties.
2. Add 'Submit' button & rename it (Check in).

9.3.2 Attachment properties

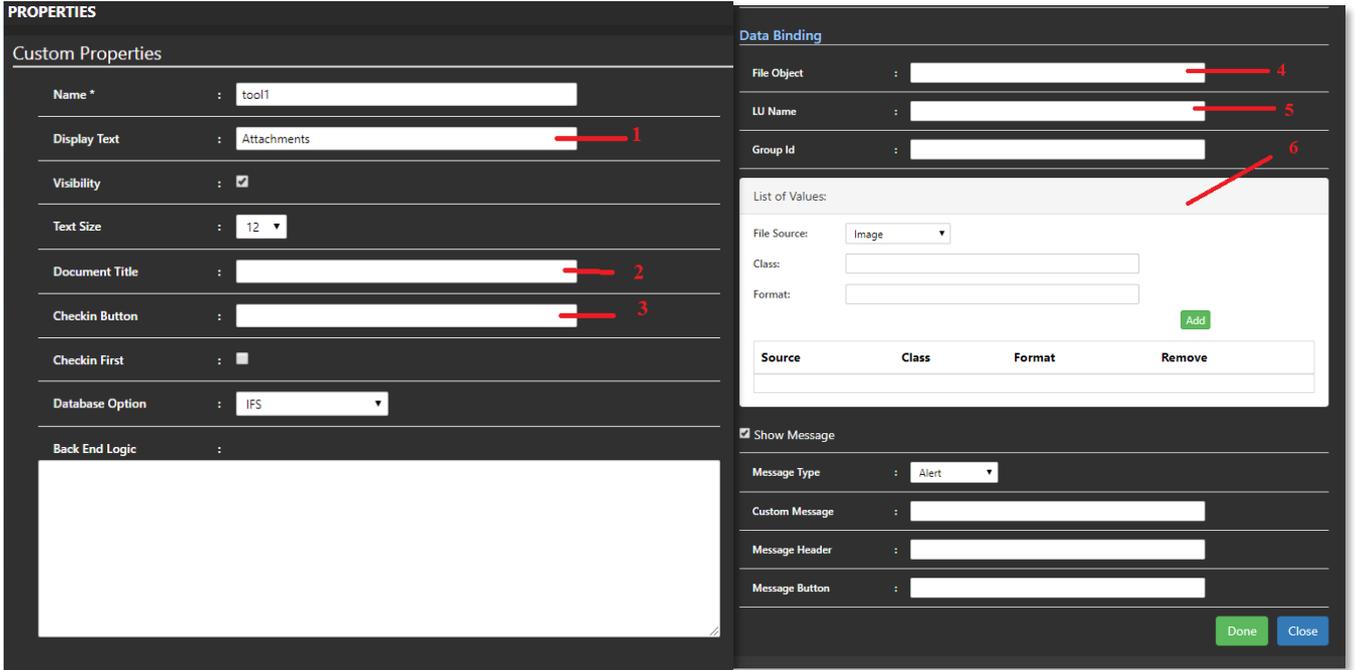


Figure 154: Custom Properties

1. **Display Text:**
Users can add any text value here. It will display top of the attachment button.
2. **Document Title:**
Users can enter any title for 'Document Title'. Documents will be checked in to the IFS under this title.
3. **Check in Button:**
Enter the tool name of the 'Check in Attachments' button. Documents will be checked in after click on 'Check in Attachments' button.
4. **File Object:**
This allow to connect towards multiple object connections in IFS
5. **LU Name:**
From Logical Unit users can connect the attach objects (Documents/Photos) with the IFS LU.
6. **List of Values:**
Under the list of values need to set the class & format separately for documents & images. This is much essential.

9.3.3 Steps to attach an image / document from mobile client

Step 01: Click on 'Attachments' button

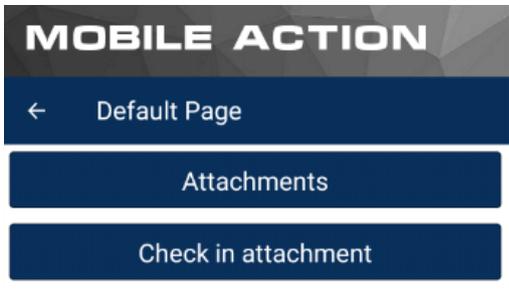


Figure 155: Mobile Action

Step 02: Select the file type (e.g.: image or document)

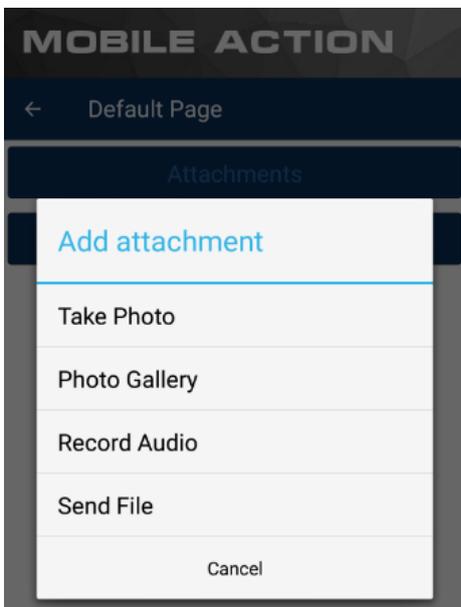


Figure 156: Select Attachment type

Step 03: Browse the file & click on 'Check in Attachment' button.

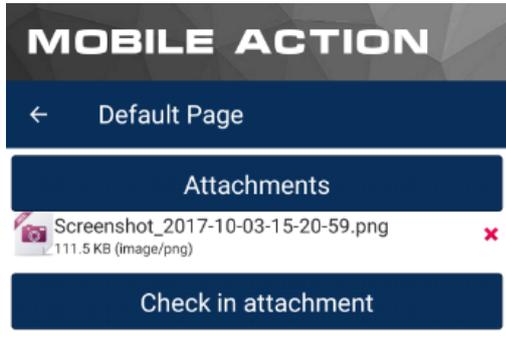


Figure 157: Attachment is attached

9.4 GPS Control

This will track the GPS location and display GPS coordinates.



Figure 158: GPS Control

9.5 Phone Button

When click on phone button, it will generate a phone call to the given phone number in its properties.



Figure 159: Phone Button

9.6 Barcode / QR Reader

QR code scanner scans values using the camera and extract info and make it available as string. That string will bind with the binding value given.

QR code scan results will be available for display on other labels on the same page



Figure 160: Barcode / QR Reader

9.7 PDF Button

In risk libraries, there are evaluations. Each & every evaluation element is related to map field. When click on generate pdf button evaluations take the user inputs & merge user inputs with the existing PDF which uploaded from the web admin. Then It will check in to IFS & display to the user. (This used under SJA)



Figure 161: Generate PDF

There are pdf display alternatives to show or not after creation of pdf. It can set in 'Generate PDF' properties in web admin.



Figure 162: PDF display alternatives

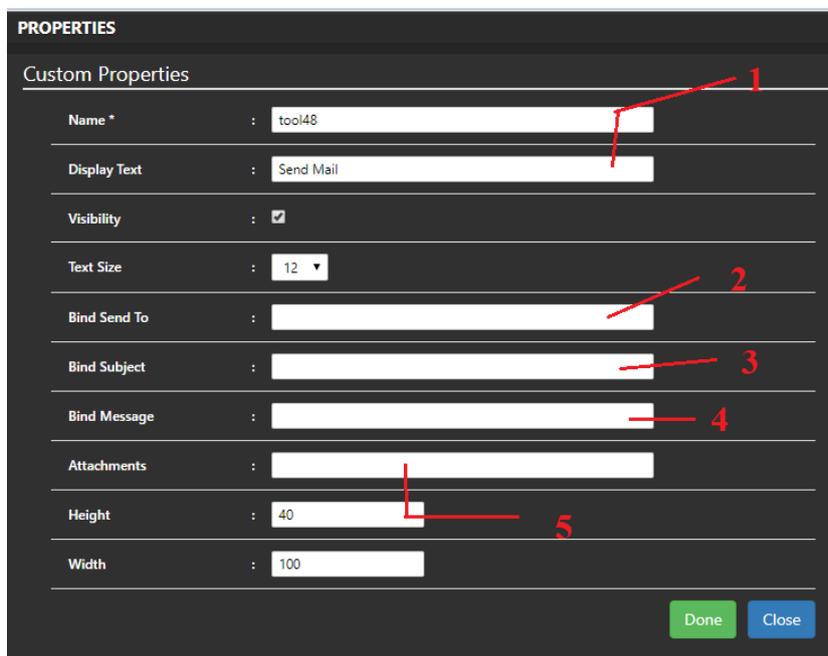
9.8 Image Button

Image button supports user to have an image on the button. And act as a regular button afterwards.

9.9 E-mail Send Button



Figure 163: Send Mail

A 'PROPERTIES' dialog box for a 'Send Mail' button. It has a title bar and a close button. The main area is titled 'Custom Properties' and contains several fields:

- Name *: tool48
- Display Text: Send Mail
- Visibility:
- Text Size: 12
- Bind Send To: [empty text box]
- Bind Subject: [empty text box]
- Bind Message: [empty text box]
- Attachments: [empty text box]
- Height: 40
- Width: 100

At the bottom right are 'Done' and 'Close' buttons. Red arrows and numbers 1 through 5 point to the Display Text, Bind Send To, Bind Subject, Bind Message, and Attachments fields respectively.

Figure 164: Send Mail Properties

1. Display Text: This will display on top of the button.
2. Bind Send To: Enter the textbox tool name which included recipients the mail address.
3. Bind Subject: Enter the textbox tool name which included Mail subject.
4. Bind Message: Enter the textbox tool name which included Mail Body (message).
5. Attachments: Here you can use 'Attachment control' Name.

Steps of send an e mail from mobile client,

Step 01: Click on 'Send Mail' button.

Step 02: Select any mail app & send the mail.

Step 03: Send the mail.

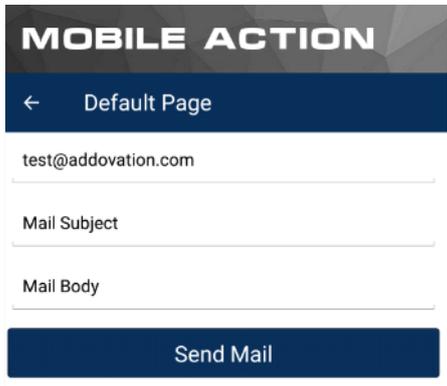


Figure 166: Step 01

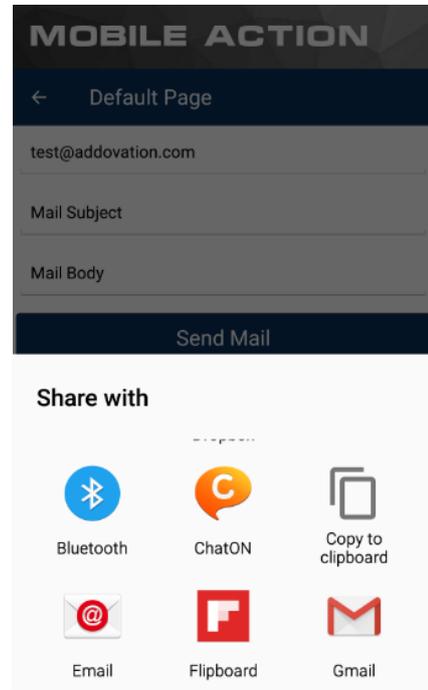


Figure 165; Step 02

10 Other Panels

10.1 Risk Library Panel

Risk elements & evaluations will autofill inside this risk library panel. This tool will be described more in 13th chapter.



Figure 167: Risk Library Panel

10.2 Attachment Panel

Multiple attachments can be included inside using Attachment Panel



Figure 168: Attachment Panel

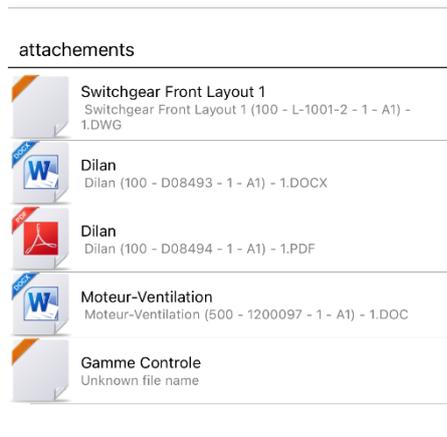


Figure 169: Mobile Action

10.3 Expandable Panel

Expandable Panel is simply a control which user can expand and collapse. Expandable Panel is yet another page type and you can include any tool inside the panel.



Figure 170: Expandable Panel

Expandable Panels are visible in toolbox, only if you have created “Expandable Panel” page type pages.

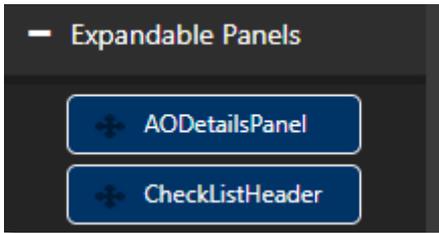


Figure 171: Expandable Panels

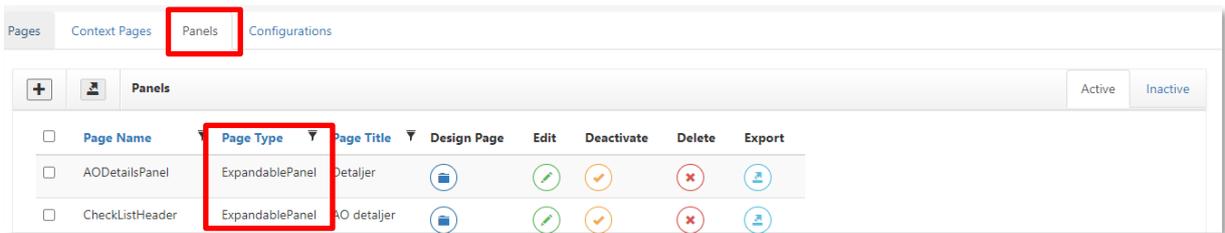


Figure 172: Expandable Panel details

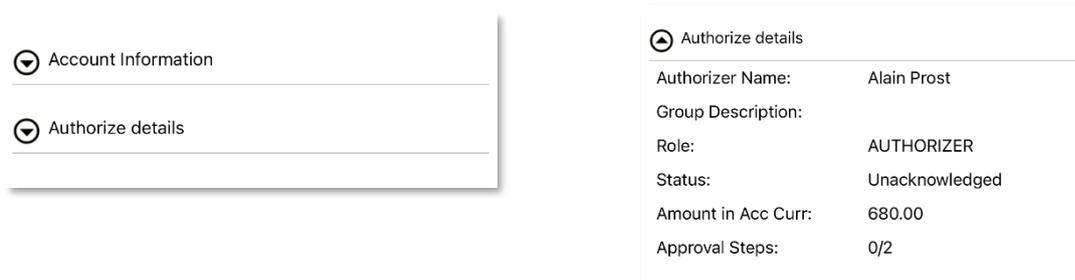


Figure 173: Mobile Action

10.4 List Panel



Figure 174: List Panel

List Panel is a panel which may contain list of items. List Panel is also a page type. Only appears in toolbox after you created a ‘List Panel’ type page.

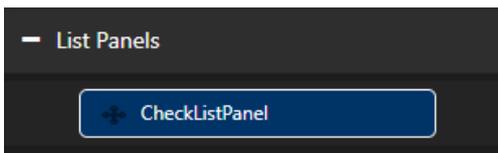


Figure 175: List Panels

10.5 Footer Panel

Footer Panel is a panel which will be resides at the bottom of mobile client. This is also a page type and once you have created the page it will appear under 'Footer Panels' in toolbox.



Figure 176: Footer Panel

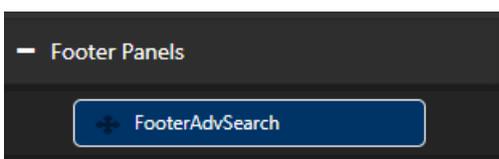


Figure 177: Footer Panels

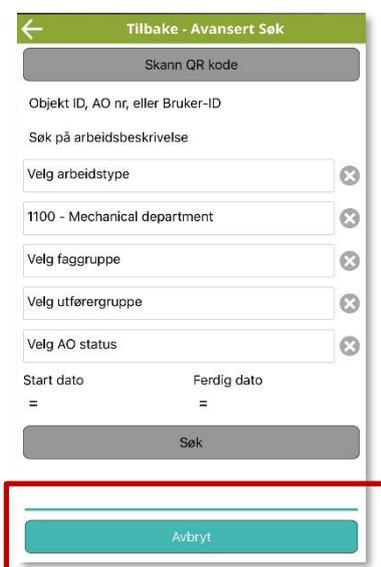


Figure 178: Footer Panel

11 Picture Tools

11.1 Header Image

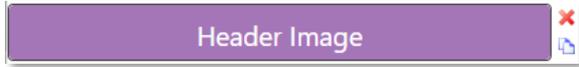


Figure 179: Header Image

11.2 Picture Box

The picture box will display an image based on a remote resource (URL). The image will be clickable and lead the app user to an external website location (as defined by a consultant in the Web Admin configuration for the tool).



Figure 180: Picture Box

11.3 File Type Picture



Figure 181: File Type Picture

12 Application design from Mobile Action Web Admin

12.1 Approval Application

Log in to the Mobile Action & select the 'Approval' application.

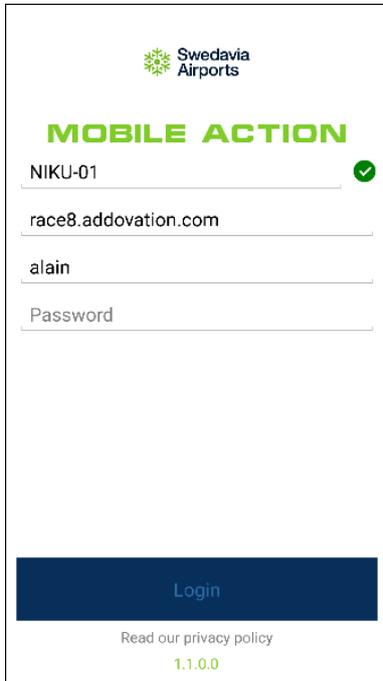


Figure 182: Login



Figure 183: Select Approval app

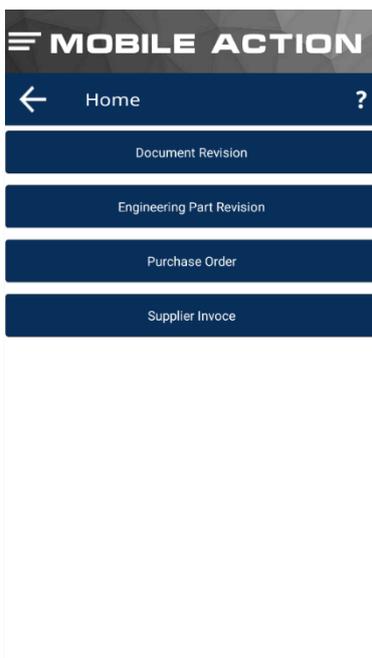


Figure 184: : Approval home page

Approval is a mobile solution for approve the documents easily from your mobile phone. Approval from Addovation gives you full support for standard approval flow in IFS, posting proposal and excellent support for custom fields. The ability to view documents.

12.1.1 Document Revisions

Here is an overview of all the items that is waiting for approval. You can approve or decline the items one by one.

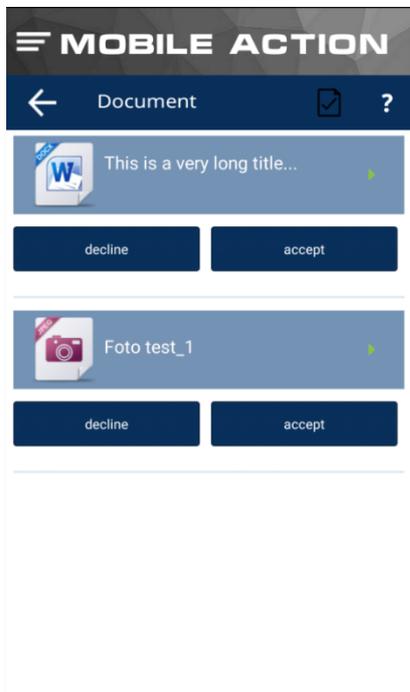


Figure 185: Approval home page

12.1.2 Engineering Part Revision

Here is an overview of all the items that is waiting for approval. You can approve or decline the items one by one.



Figure 186: Engineering Part Revisions

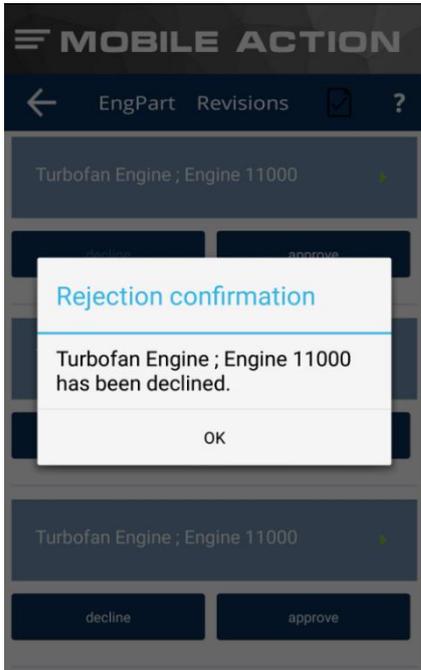


Figure 188: Decline

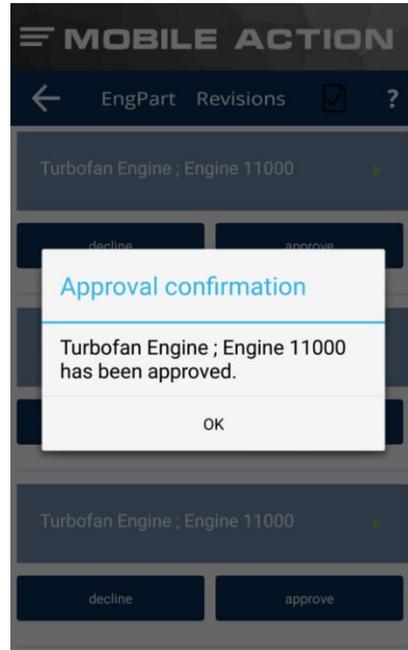


Figure 187: Approve

12.1.3 Purchase Order

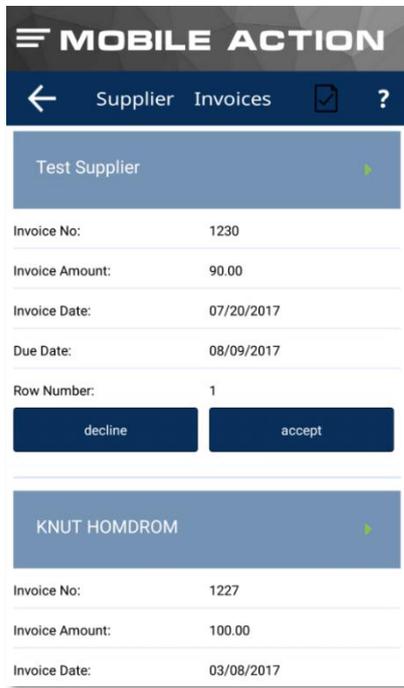
Here is an overview of all the purchase orders that is waiting for approval. As same as the 'Engineering Part Revision' you can approve or decline items in 'purchase order'.



Figure 189: Purchase Orders

12.1.4 Supplier Invoice

Here is an overview of all the supplier invoices that is waiting for approval. As same as the 'Engineering Part Revision' you can approve or decline items in 'supplier invoice'.



13 Secure Job Analysis (SJA) Libraries

Risk Libraries should create from Mobile Action Web Admin.

Step 01: Click 'Customer' (Ex: Addovation) → 'Environment' (Ex: race9.addovation.com) and navigate.

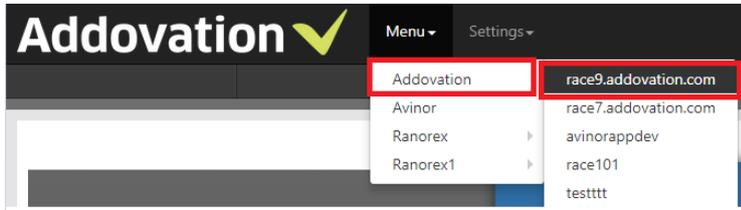


Figure 190: Navigate to Risk Libraries

Step 02: by click on the Risk Library tab, user can navigate to the risk library list.

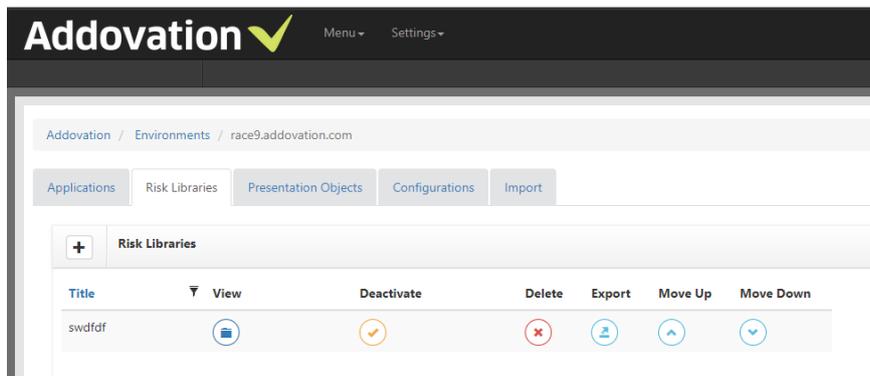


Figure 191: Risk Library list

Step 03: to create a risk library, click on  button, Enter the title & select pdf file & click on 'Save'.

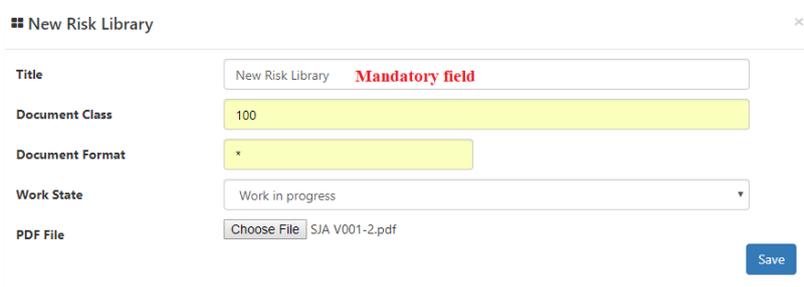


Figure 192: Add new Risk Library

By clicking on view button and  navigate to the configurations, user can edit the existing Risk libraries.

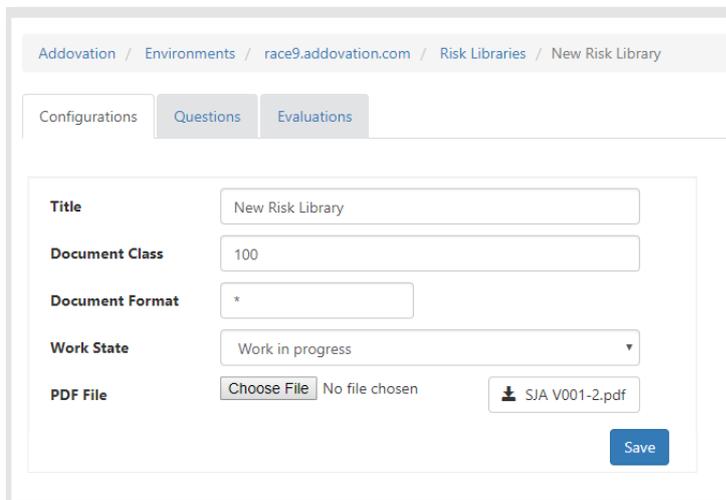
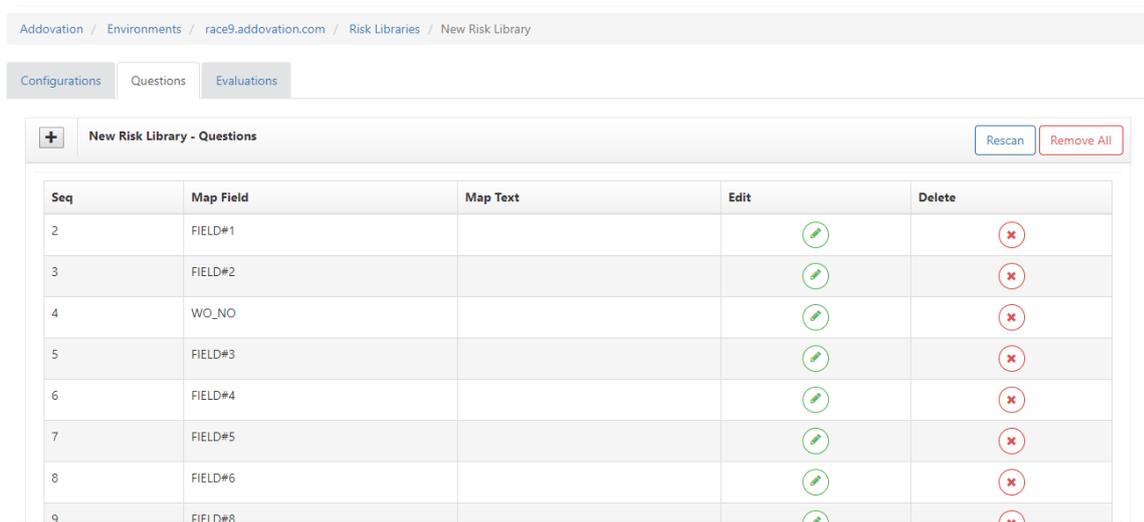


Figure 193: Update Risk Libraries

Each PDF template in the Library contain a definition for [DocMan] class, format and state. In addition, the templates have a state ("work in progress" or "approved"). When a new Library template is added (PDF file) it is automatically read all the relevant(map) fields in the PDF.

Step 04: Add Questions



Seq	Map Field	Map Text	Edit	Delete
2	FIELD#1			
3	FIELD#2			
4	WO_NO			
5	FIELD#3			
6	FIELD#4			
7	FIELD#5			
8	FIELD#6			
9	FIELD#8			

Figure 194: Question list

- Add Questions: user can add questions as they like using '+' button in the question tab, as well by clicking on the rescan button and selecting the automatically loaded map fields and click 'Save'.

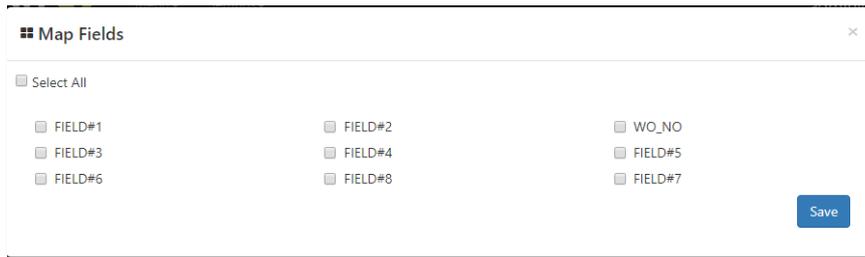


Figure 195: Rescan and select the Map Fields



Figure 196: Add Questions manually

- Delete questions: user can delete questions one by one or by clicking  button and by clicking 'Remove All'  delete all the questions in the list.

From Yes, No option in the question create, end user will able to click yes/no checkbox instead of typing. Depending on the checkbox status it will output different strings in the PDF form.

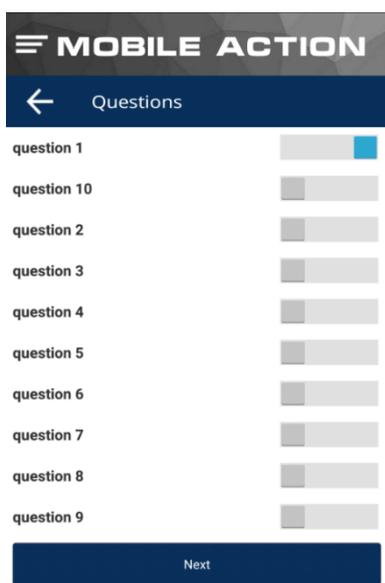
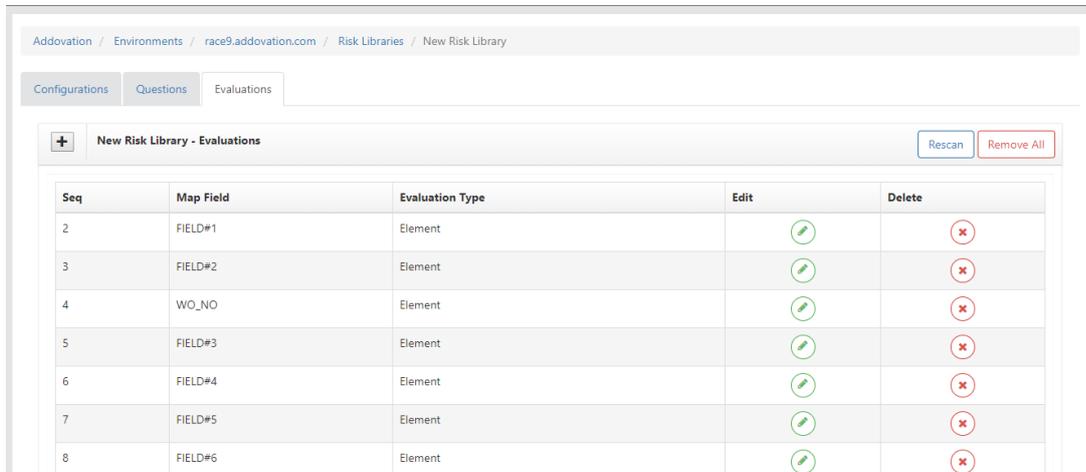


Figure 197: Mobile Action

Step 04: Add Evaluations



Seq	Map Field	Evaluation Type	Edit	Delete
2	FIELD#1	Element		
3	FIELD#2	Element		
4	WO_NO	Element		
5	FIELD#3	Element		
6	FIELD#4	Element		
7	FIELD#5	Element		
8	FIELD#6	Element		

Figure 198: Evaluation list

- Add Evaluations: user can add questions as they like using ‘+’ button in the evaluation tab, as well by clicking on the rescan button and selecting the automatically loaded map fields and click ‘Save’.

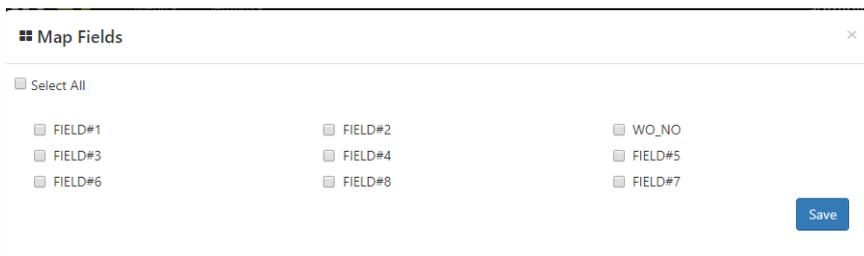


Figure 199: Rescan and select the Map Fields



Figure 200: Add Evaluations manually

- Delete evaluations: user can delete evaluations one by one or by clicking button and by clicking ‘Remove All’  delete all the evaluations in the list.

This is how risk libraries works in mobile client.

Search & select a work order.



Figure 202: Search Work Order



Figure 201: Select Work Order

Now it shows all risk libraries. Select one of them.

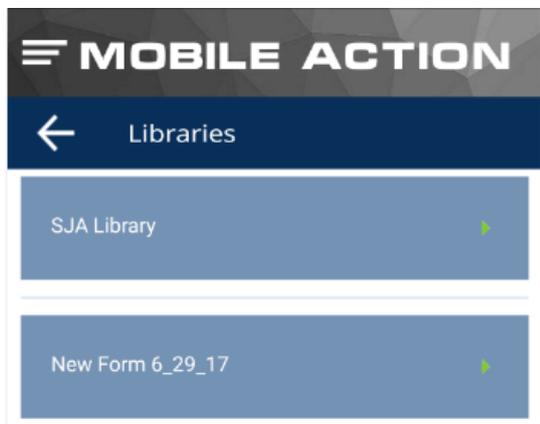
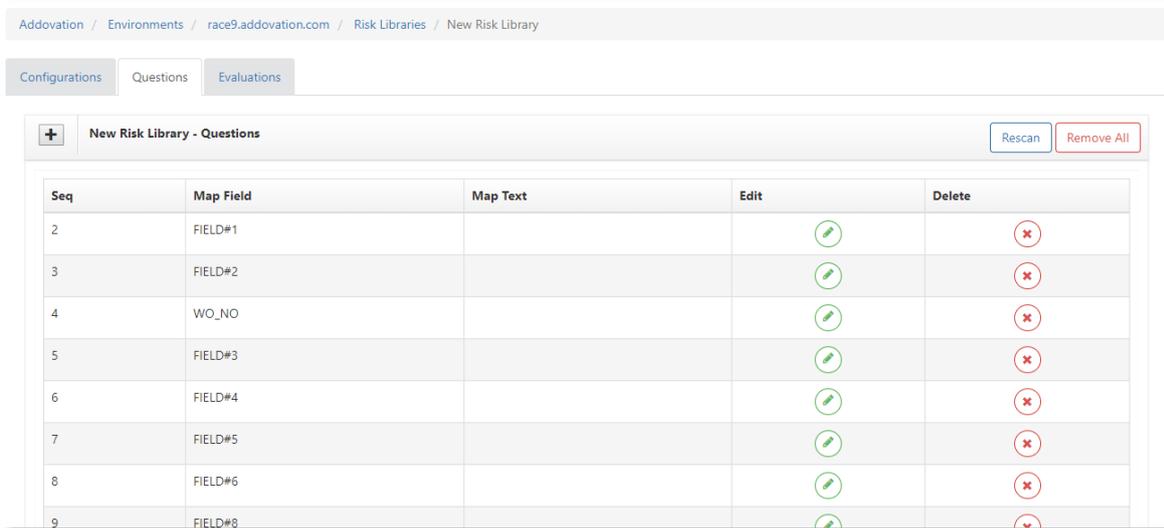


Figure 204: Libraries

Next it shows the questions related for the selected risk library.

Questions created for the risk library (Web Admin)



Seq	Map Field	Map Text	Edit	Delete
2	FIELD#1			
3	FIELD#2			
4	WO_NO			
5	FIELD#3			
6	FIELD#4			
7	FIELD#5			
8	FIELD#6			
9	FIELD#8			

Figure 205: Created Questions in Web Admin

Answer the questions & click on 'Next' button to go to the Evaluation page.

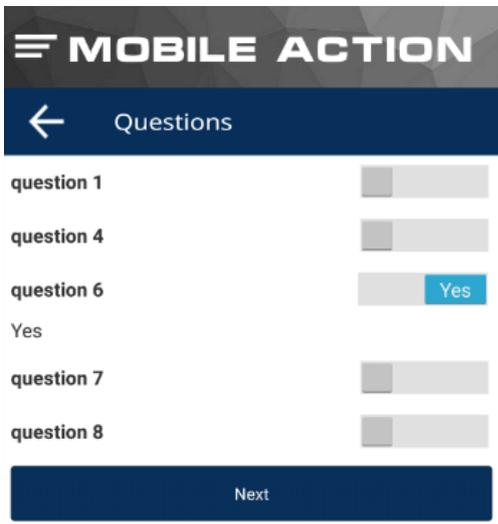
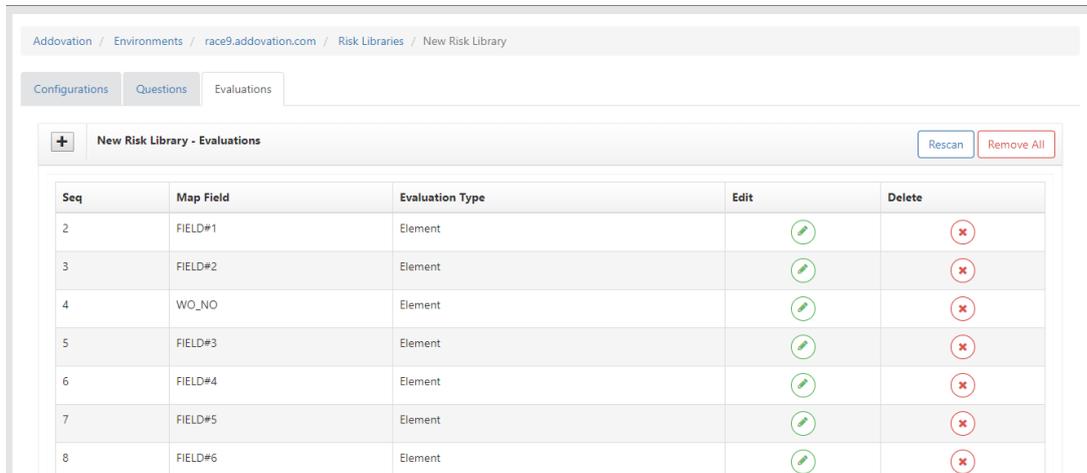


Figure 206: Mobile Action

This is how the questions mapped with the evaluations (Web Admin)



Seq	Map Field	Evaluation Type	Edit	Delete
2	FIELD#1	Element		
3	FIELD#2	Element		
4	WO_NO	Element		
5	FIELD#3	Element		
6	FIELD#4	Element		
7	FIELD#5	Element		
8	FIELD#6	Element		

Figure 207: Created Evaluations in Web Admin

Click on each Evaluation below

-  [Type: Element]
-  [Type: Text]
-  [Type: Question]
-  [Type: Signature]

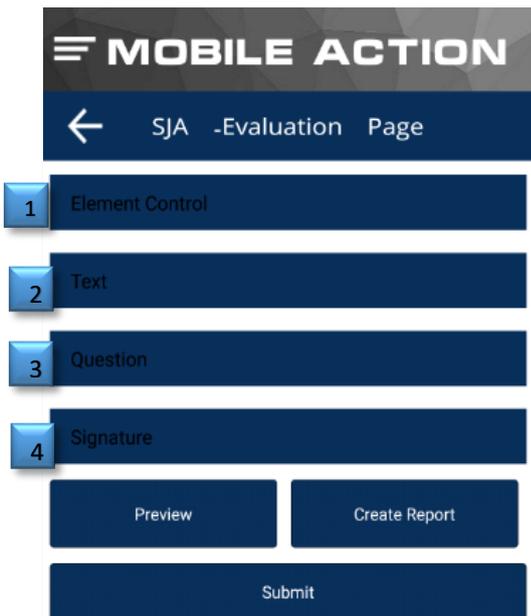
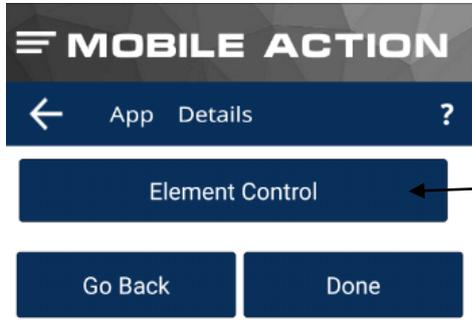


Figure 208: Evaluations

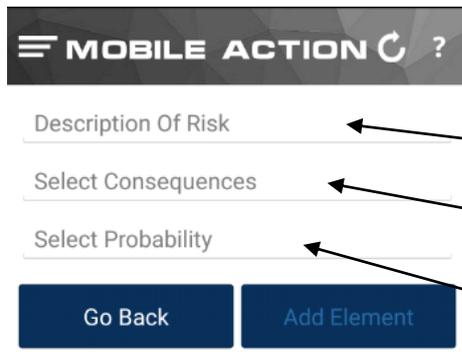
1 Element Control

[Type: Element] It is possible to add one or more elements.



Click on this risk element.

Figure 209: Element Type



Enter the Risk Category title here

This will pop up a drop-down list for select the consequence.

This will pop up a drop-down list for probability

Figure 210: Add Element

Drop down list for select Consequence

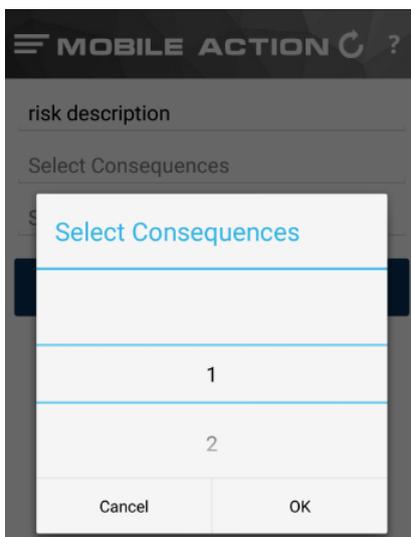


Figure 211: Select Consequences

Drop down list for select the Probability

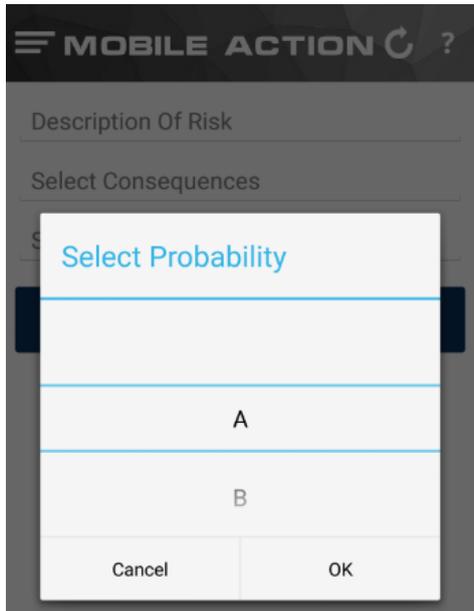


Figure 212: Select Probability

After select, the value from final drop-down list, Element will appear as below

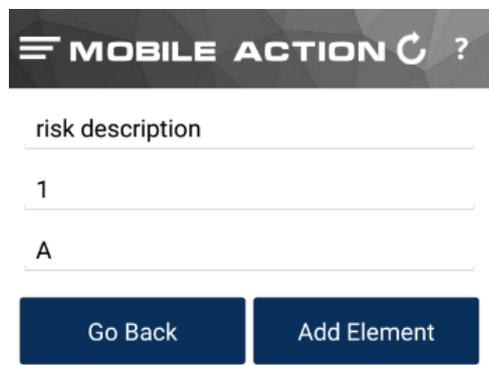


Figure 213: Add Element

Now click on 'Add Element'. Likewise, you can add more elements.

Below are the added risk categories. Colours are shown according to the risk level.

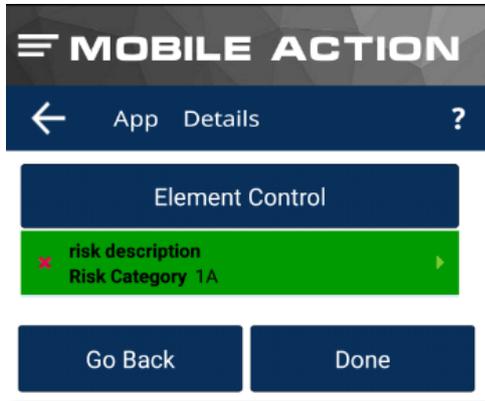


Figure 214:Element Control 1

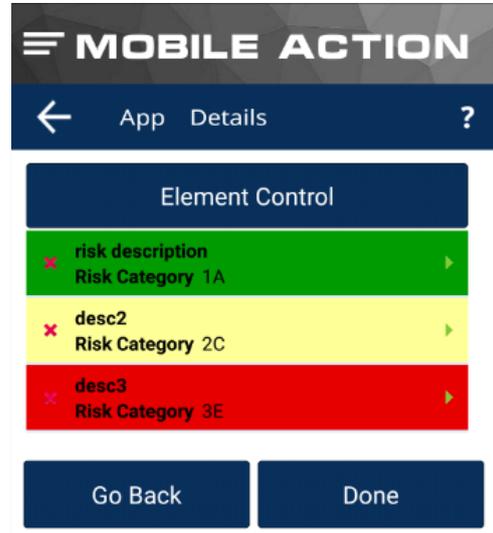


Figure 215: Element Control 2

2 Text

[Type: Text] This is useful for long texts.



Figure 216: Type:text

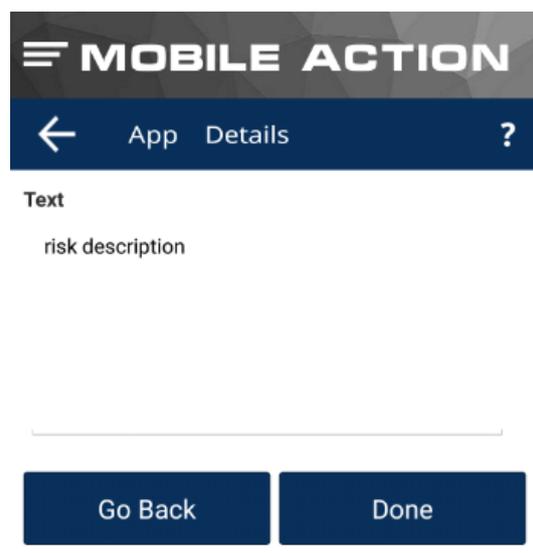


Figure 217: Enter text

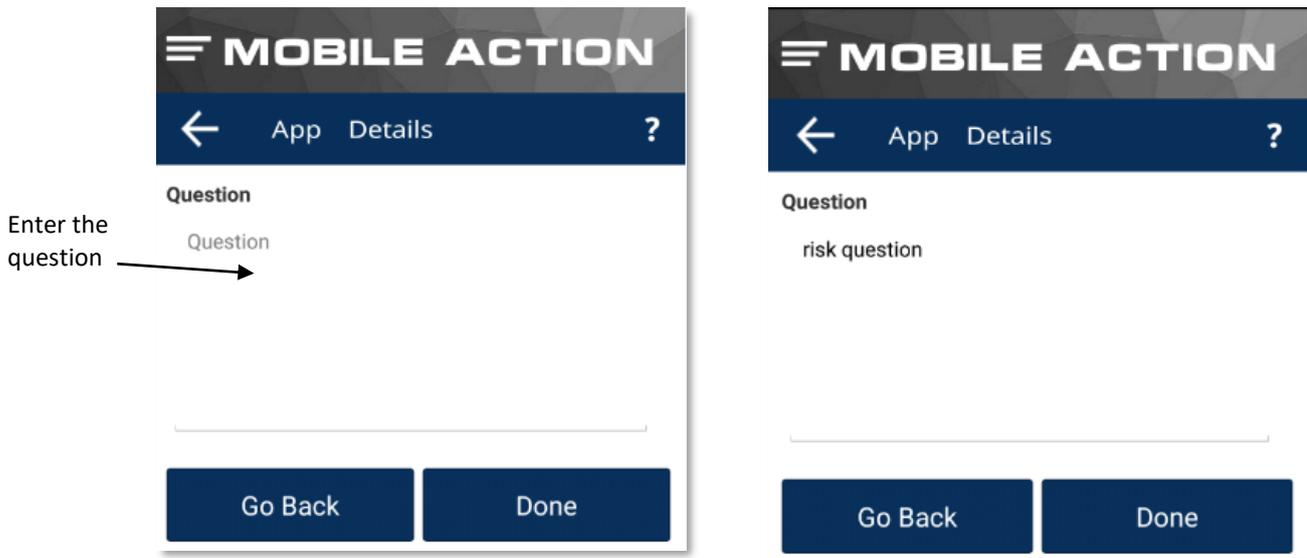


Figure 218: Enter Questions

3 Question

[Type: Question] This is Quicker than typing 'Yes' or 'No'

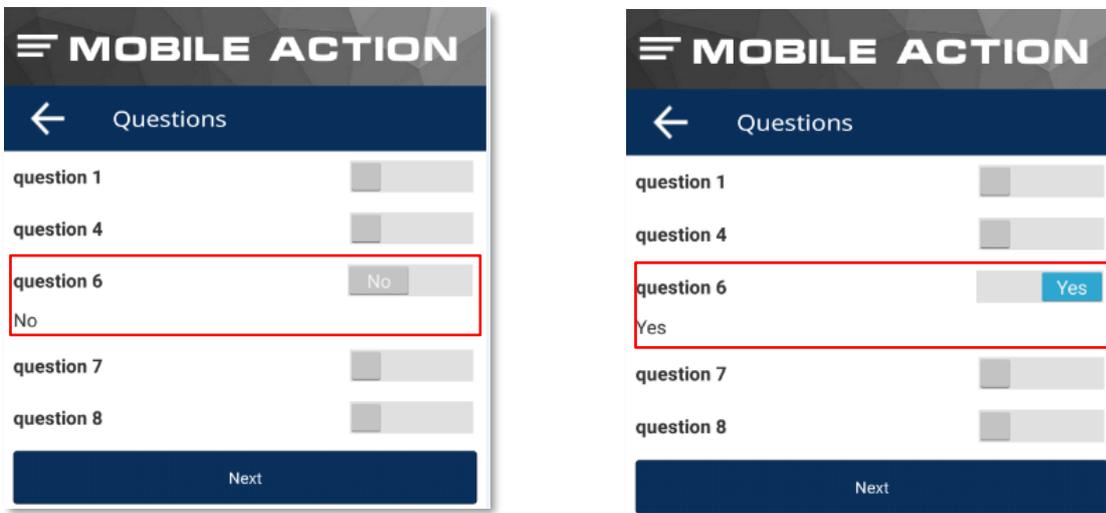


Figure 219: Answer Yes or No

4 Signature

[Type: Signature] This is to add a signature.



Figure 220: Type:Signature

Now all evaluations filled. In below page, you can preview the data or able to create a report.

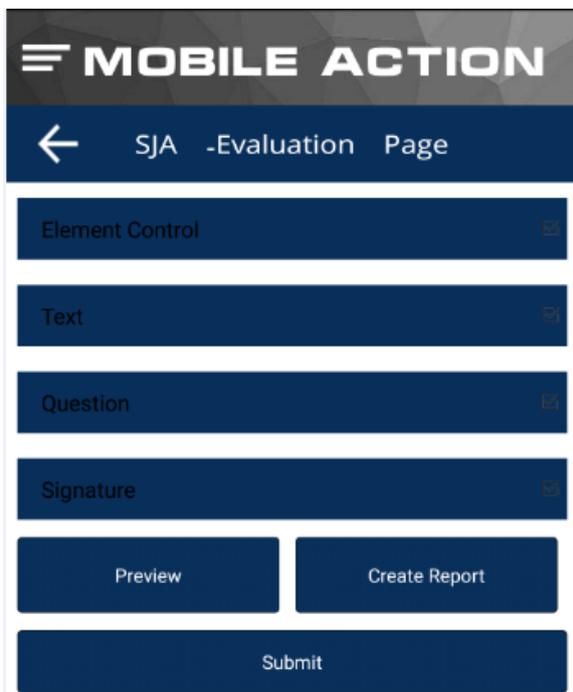


Figure 221: Create report

Preview: Display the data as a pdf file.

Create Report: This will check in the document to IFS.

It will display the Document No when checked in to the IFS.

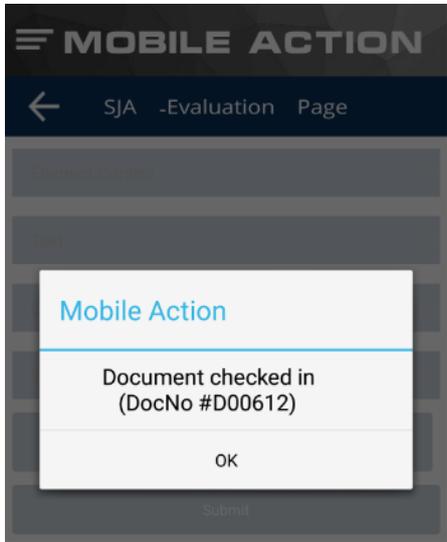


Figure 222: Report checked in

Preview: This is the generated pdf file.



Figure 223: Preview: generated pdf

14 Export / Import

Using Export/Import user can export data from one database and import to another database/ same database. In Web Admin user can Export/Import Applications, Pages, Risk libraries and presentation objects.

- Export** - In application, pages, risk libraries user can export items one by one, as well in presentation objects user can export existing presentation object details (ids and descriptions) using export button.
 -  In pages and presentation objects user can export more than one item by selecting the pages/presentation objects and  click on button in header. Exported items download in a .zip file.
- Import** – by navigating to Customers → environments and click on Import tab user can import applications, pages, presentation objects and risk libraries.

14.1 Import Application

By selecting Exported application .Zip file, using 'Choose file' button and click on 'Import Application' user can import application. if application name provided in the application name textbox, application will create with that name and if the application name not provided that will create an application as same as the exported application, if user select the 'Duplicate' and if that exported application name already exist in the database. it will create an application by adding + 1 to the end of the application ex: if Application Name 'My Active Separate' is existing it will create 'My Active Separate1' and if 'My Active Separate1' exist it create 'My Active Separate2' etc. If user click 'Overwrite' and import application, it will delete the existing application and create a new application.

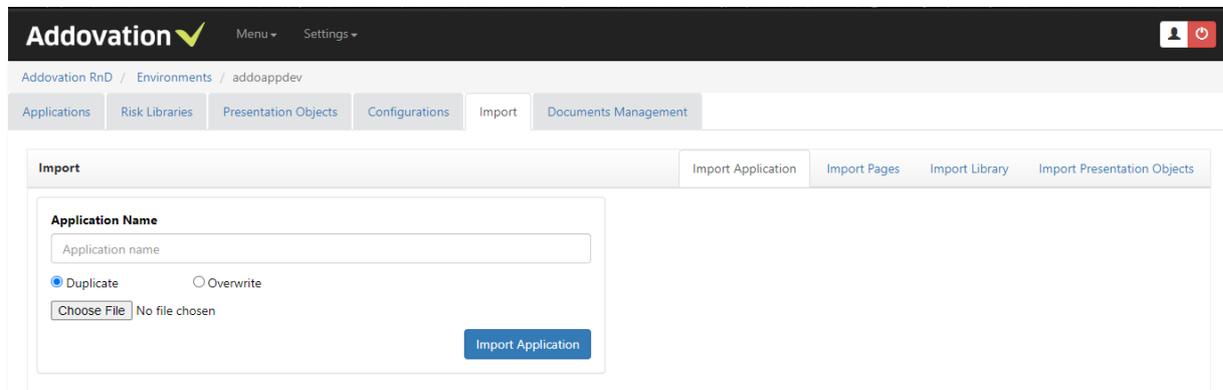


Figure 224: Import Application

14.2 Import Page

User can import page one by one by extracting the .Zip file and provide .xml files using 'Choose file' button and click on 'Import Page' button. Here user should select the application which the page should imported to. 'Duplicate' and 'Overwrite' functions work same as in application import.

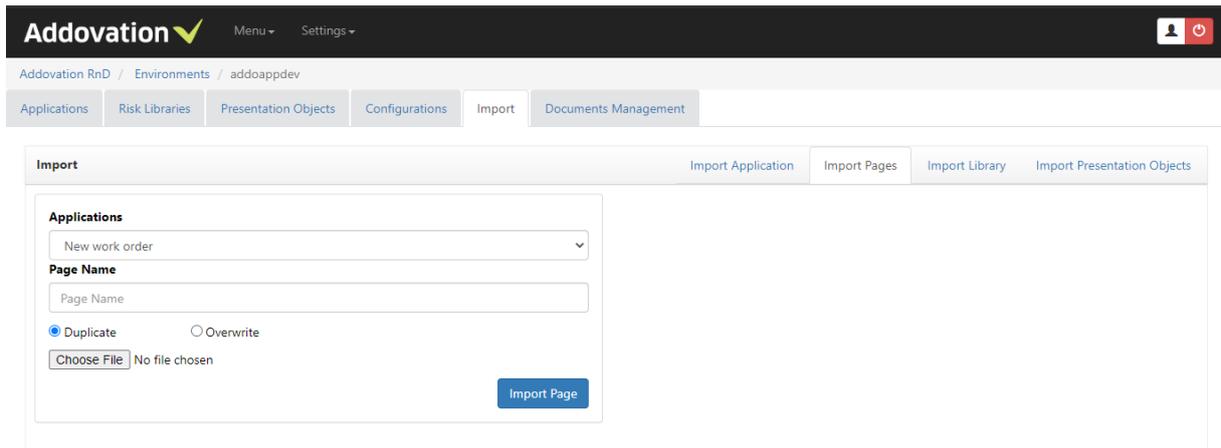


Figure 225: Import Page

14.3 Import Risk Library

User can import library using exported library .Zip file and using 'Choose file' button and click on 'Import Library' button. 'Duplicate' and 'Overwrite' functions work same as in application import.

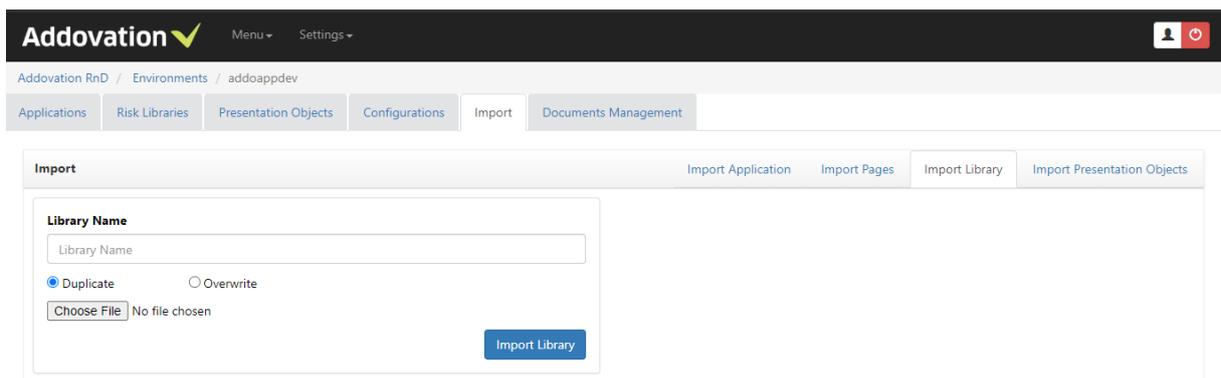


Figure 226: Import Risk Library

14.4 Import Presentation Objects

User can import Presentation Objects, by navigating to an environment which the presentation objects should create and using exported Presentation Objects .Zip file and using 'Choose file' button and click on 'Import Presentation Objects' button. 'Duplicate' and 'Overwrite' functions work same as in application import.

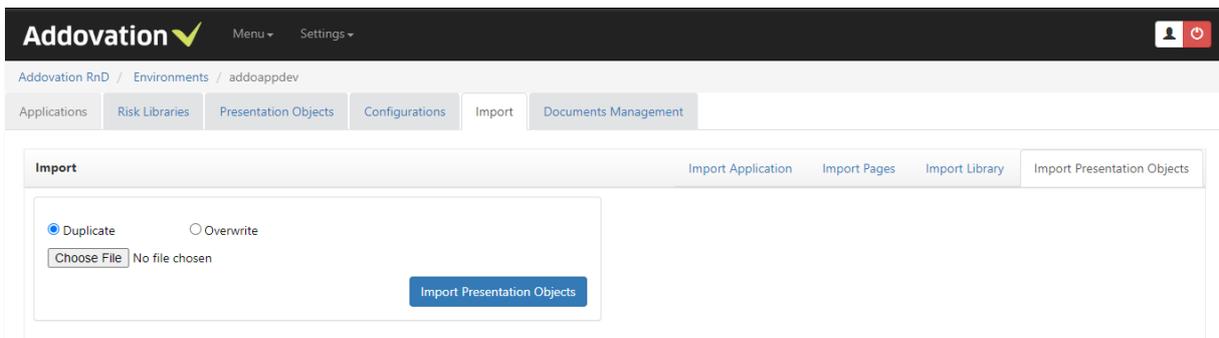


Figure 227: Import Presentation Objects

15 App Linking

Mobile Action supports App Linking on the Android & iOS operating systems. By registering and associating a specific URL it with the mobile application links in browsers and other applications will start the application. Applink url requires application name, page name and any number of other parameters that you need to pass. All values in the url should be properly encoded.

Format

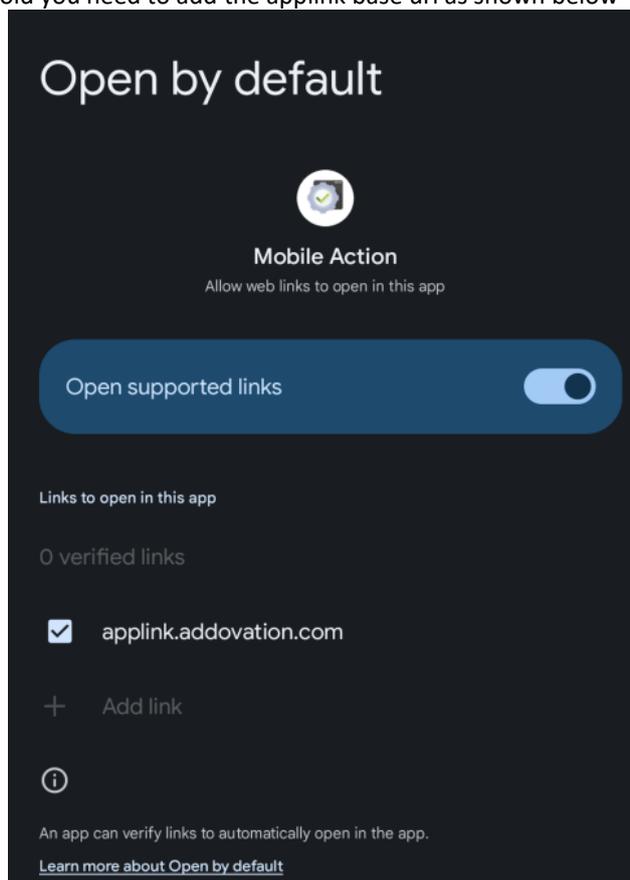
<https://applink.addovation.com/app={appname}&page={pagename}&{key1}={value1}&{key2}={value2}>

Example

<https://applink.addovation.com/app=WorkOrderApp&page=SearchWorkOrdersPage&Company=100&Site=20>

Limitations of App linking:

- The root of the link (URL) must always start with <https://applink.addovation.com/>
- In iOS, Email Sending is only allowed with the iOS default mail app
- On android you need to add the applink base url as shown below



16 Contact

Visit www.addovation.com for further information.