NEMF

App Platform

User Guide

Version: 6.1

Disclaimer

This document contains information proprietary to Newgen Software Technologies Ltd. User may not disclose or use any proprietary information or use any part of this document without written permission from Newgen Software Technologies Ltd.

Newgen Software Technologies Ltd. makes no representations or warranties regarding any software or to the contents or use of this guide. It also specifically disclaims any express or implied warranties of merchantability, title, or fitness for any particular purpose. Even though Newgen Software Technologies Ltd. has tested the hardware and software and reviewed the documentation, it does not guarantee or imply that this document is error free or accurate regarding any particular specification. As a result, this product is sold as it is and user, the purchaser, is assuming the entire risk as to its quality and performance. Further, Newgen Software Technologies Ltd. reserves the right to revise this publication and make changes in its content without any obligation to notify any person, of such revisions or changes. Newgen Software Technologies Ltd. authorizes no Newgen agent, dealer or employee to make any modification, extension, or addition to the above statements.

Newgen Software Technologies Ltd. has attempted to supply trademark information about company names, products, and services mentioned in this document. Trademarks indicated below were derived from various sources.

Newgen Software, Registered Office, New Delhi
E-44/13
Okhla Phase - II
New Delhi 110020
India
Phone: +91 1146 533 200
info@newgensoft.com

Contents

Preface

This chapter provides information about the purpose of this guide, details on the intended audience, revision history, and related documents for Newgen Enterprise Mobile Framework (NEMF) App Platform User Guide.

Revision history

Revision date	Description
September 2024	Initial publication

About this guide

This guide explains the use cases of various components of the NEMF. It includes the creation and modification of the provided user interface (UI) components and code of the application using the NEMF framework.

Intended audience

This guide is intended for application developers responsible for creating and modifying the UI and code of the application using the NEMF framework. The user must have knowledge about the client requirements, NEMF, and the concept of trays and business use cases (BUC).

Related documents

The following documents are related to the NEMF App Platform User Guide:

- NEMF Release Notes
- NEMF Administration Guide
- NEMF Reference App Developer Guide
- NEMF Reference App Deployment Guide
- NEMF Custom and Complex Tables
- NEMF Distribution Guide
- NEMF Developer Guide
- NEMF Deployment Guide
- NEMF Configuration Guide

Documentation feedback

To provide feedback or any improvement suggestions on technical documentation, write an email to docs.feedback@newgensoft.com.

To help capture your feedback effectively, share the following information in your email:

- Document name
- Version
- Chapter, topic, or section
- Feedback or suggestions

Getting started

This section provides information on the login configuration and app creation on the NEMF App Platform. App Platform allows you to customize given initiation app templates by changing the provided configurations of login, dashboard, form and formlist pages.

Accessing NEMF app platform

Perform the below steps to sign in to the NEMF App Platform:

1. Launch a web browser.
   To view the list of supported web browsers, refer to the *NEMF 6.1 Release Notes*.
2. Enter the URL of NEMF App Platform.
3. Press **Enter**. The NEMF App Platform screen appears.
4. Enter your **Newgen ID** and click **LOGIN**. The NEMF App Platform Home screen appears.

> Newgen ID is to maintain the session and is not verified against the official database.

The Home screen comprises the following:

Tab	Description
HOME	It's the landing page that appears after successful login. It comprises an option for creating new apps and viewing the recently created apps up to four. Also, you can create an app using CREATE NEW APP.
APPS	It displays the list of all apps that you have created.

Creating a new app

NEMF App Platform allows you to create a new Initiation or Approval app with boilerplate code using the NEMF Framework.

Perform the below steps to create a new app:

1. To sign in to the platform, refer to the Accessing NEMF app platform section. Upon successful login, the NEM App Platform screen appears.
2. Click **CREATE NEW APP**. The Setup App Basic Information dialog appears.

> For more information, refer to Initiation App and Approval App section.

Initiation app

The initiation app allows you to create cases with attachments and data which can be submitted to the server for approval or rejection

Perform the below steps to create a new initiation app:

1. Go to the NEMF App Platform Screen. Refer to Creating a new app.
2. Click **CREATE NEW APP**. The Setup App Basic Information dialog appears.
3. Enter the **App Name** and click **Next**.
4. Upload the **App Icon** and click **Next**.

> It is mandatory to upload an app icon. App Icon must be square, less than 1Mb in size, and less than 1024*1024 in resolution.

5. Upload the **App Splash Screen** and click **Continue**.

> The splash screen is optional. The screen must be in portrait mode (height must exceed the width of the image), and the size must be less than 1 MB.

The Choose Template screen appears. For more information, refer to choose template.

Choosing a template

Choose a template section that includes the login, dashboard, form list, and form builder view. It helps configure several settings on the app including logo icon editing, background color selection, and so on.

The Choose Template screen comprises the following:

- Regular Template
- Material Design Template

Regular template

A regular template is one flavor of the App UI provided by NEMF.

Regular template comprises the following of the following views:

- Login View
- Dashboard View
- FormList View
- Form View

Downloading the code of the created app

On the page that allows you to configure different views for your application, the options to download app code for the Android and iOS platforms are present in the upper-right corner.

Click the **DOWNLOAD** Android icon to initiate the app code download for an Android-based platform. This code contains the source files, configurations, and resources necessary to build and run the app on Android devices. Similarly, click the **DOWNLOAD** Apple (iOS) icon to initiate the code download for an iOS-based application code.
A zip file gets downloaded to your device. Extract the file on your device to access the

necessary app code details and make further modifications, such as applying custom business logic.

Configuring the login view

Login view allows to configure the view and displays the login page appearance based on the configuration.

Perform the below steps to configure the login view:

1. Go to **Home**.
2. Click **Login View**. The Login View screen appears.
3. Specify the following details to change the login view configuration:

Field	Description
Show Logo Image	Select the logo image checkbox to display the logo on the login page.
Browse Logo Image	Click to add logo and use square image only. Recommended Size: Less than 1 MB Recommended Resolution: 1024 × 1024
Newgen Logo	Select the logo checkbox to display Newgen logo on the login page.
Browse Background Image	Click to add the background image and use portrait image only. Recommended Size: Less than 1 MB
Foreground Color	Select the foreground color.
Background Color	Select the background color.
Header Footer Color	Select the header footer color of subsequent pages of the app.
Default Identity Provider	Select the default (OmniDocs) checkbox to use the default identity provider on the login page.
Touch ID Support	Select the checkbox to enable touch ID support(fingerprint) on the login page.

Field	Description
Default Master Management	Select the checkbox against the Default Master Management option.
Change Password Functionality	Select the checkbox to enable change the password functionality in app.
Version No. Check	Select the checkbox to display the app version number on the login page.
SAVE	Click SAVE to save the changed configurations.

Configuring the dashboard view

The dashboard view has pre-defined configurations. It allows you to modify or customize the dashboard view of the app as per the requirement.

Perform the below steps to configure the dashboard view:

1. Go to **Home**.
2. Click **Dashboard View**. The Dashboard View screen appears.
3. Specify the following details to change the dashboard configuration:

Field	Description
Toggle Get Instances	Select the checkbox to display (refresh icon) in the dashboard. It allows you to get the new instances assigned to the logged-in user from iBPS.
Show Chart	Select the checkbox to display the chart in the dashboard.
Encryption Required	Select the checkbox to enable data encryption throughout the application.
BUC Name	Click to add and modify the BUC Name.
Parallel Upload	Select the checkbox to enable parallel upload.
Form Name	Click to add and modify the form name as per your requirement.

Field	Description
Expected Submission	Select the expected submission destination, where the case data and documents get stored, and the process is defined.
Tray	Click to add and configure the tray in the dashboard.
SAVE	Click SAVE to save the changed configurations.

Configuring the tray

Tray configuration allows you to add or modify different configurations and the appearance of the tray in the application dashboard.

Perform the below steps to add tray configurations in the dashboard:

1. Go to **Home**. For more information, refer to the regular template and dashboard view sections.
2. Click **Dashboard View**. The Dashboard View screen appears.
3. Go to **Dashboard View Controls**.
4. Click. The Tray Configurations screen appears.
5. Specify the following Tray Configurations:

Field	Description
Tray Name	Define the tray name.
Disallow Data Updates	Select the checkbox to freeze the fields of the case in the particular tray, that is., make it read-only.
Disallow Submissions	Select the checkbox to disable the submissions to the defined case submission destination. By default, the case submission destination is iBPS.
Max Instance Age	Define the number of days a case must exist in the particular tray.

Field	Description
Sync Instances Onload	Select the checkbox to enable instances of this tray to get synced on load.
Tray Color	Select the color of the tray that you want to display on the dashboard.
Show Count in Overview	Select the checkbox to display the total number of cases in the tray under the Overview heading on the dashboard.
Show tray in chart	Select the checkbox to count the cases present in the tray to be considered in the pie chart on the dashboard.
Instance Action	It comprises the following: • Freeze — Select the checkbox to freeze the tray configuration. When enabled, the user is not allowed to edit the tray. • Delete — Select the checkbox to enable the long-press delete functionality on cases present in the tray.
Rule	It comprises the following: • Field — It contains statusRemark by default and represents the field that is checked to perform tray movement. Define the rule to insert the cases in the trays accordingly. • Value — Define the value of StatusRemark for the configured tray so the cases with StatusRemark value as defined falls under this tray.
Tray Header Field	It comprises the following: • Field Name — Select the field using dropdown that you want to display under the to-be-defined column. • Alias — Define the name of the column header. • Position — Define the priority or order of the column being defined in the tray. Click + Add to add more tray header fields.

Configuring the form list view

Form List View comprises a pre-defined template to configure the form list as per the requirement.

Perform the below steps to configure the form list view:

1. Go to Home.
2. Click **Formlist View**. The FORMLIST VIEW screen appears.
3. Specify the following details to edit formlist view configuration:

Field	Description
Show Master Sync Button	Select the checkbox to enable form sync or case data on the form list view manually.
Show Form Status	Select the checkbox to display the form showing progress bar showing on the form list view.
Show Attachment Details	Select the checkbox to enable attachment details.
SAVE	Click SAVE to save the changed configuration.

Configuring the form view

The form builder view comprises a pre-defined template to configure the form list as per the requirement. It also comprises the live view that displays the form list view based on the applied configuration.

Perform the below steps to configure the form view:

1. Go to **Home**.
2. Click **Form View**. The FORM VIEW screen appears displaying the following panes:

Pane	Description
Form View Controls	Allows you to configure the form view.
Preview	Display a live preview of the form based on the defined configurations.

3. In the Form View Controls pane, specify the following configurations:

Configuration	Description
Select BUC	Select the required BUC using the dropdown to create the form. First BUC is populated by default.
Form Name	Displays the form name of the selected BUC.
Sections	This configuration allows you to add a section or sub-section for a form.
Input Types	This configuration allows you to define input fields for a form. Following is a list of input field types: • Text box • Button • Date type • Empty box • Passport scanner • Dropdown • Heading • Check box • Table • Pan card scanner You can also define a default layout for the above input field types using the following options: • **1 column** — Allows you to configure a single-column view for the form input fields. • **2 column** — Allows you to configure a two-column view for the form input fields.
Custom UI Controls	This configuration allows you to create customized UI elements based on your requirements. For procedural details on creating a custom UI control, see the Creating a custom UI control section. For information on adding and using a custom UI control, see Adding a custom UI control.
Attachments	This configuration allows you to define settings for adding attachments. It is a section-level attachment allowing you to edit the configuration for the attachment. For procedural details to add an attachment, see Adding attachments.
Save	This option allows you to save any modifications made to the form view configuration.
Preview	This option allows you to generate a preview of the form view. It is essential to save the changes made to the form view configuration before initiating the preview.

Configuration	Description
Import	This option allows you to import the app code created in the NEMF app or any external platform to the NEMF app platform. For further information, refer to the Importing app code with custom logic section.

Adding a section

Perform the below steps to add a section for a form:

1. In the Form view controls pane, click the **Sections** dropdown.
2. Select **Section**. The Add Section dialog appears.
3. Specify the following details:

Field	Description
Enter name for section	Specify a section name that you want to add.
Enter Id for section	Specify a unique section ID.
Section position	Specify a sequence in the form to add a new section.
Has Attachments	Select the checkbox to enable adding attachments.

4. Click **Add** to save the configurations for the section.

Adding a sub section

Perform the below steps to add a sub-section for a form:

1. In the Form view controls pane, click the **Sections** dropdown.
2. Select **Sub section**. The Add Sub Section dialog appears.
3. Specify the following details:

Field	Description
Enter name for sub section	Specify a sub-section name that you want to add.
Enter Id for sub section	Specify a unique sub-section ID.
Select a section	Select a section where you want to add a sub-section.

4. Click **Add** to save the configurations for the sub-section.

Adding a textbox

Perform the below steps to add a textbox for a form:

1. From the Input types configuration, select **Text box**. The Add Textbox dialog appears.
2. Specify the following details:

Field	Description
Enter name for textbox	Specify a textbox name that you want to add.
Enter Id for textbox	Specify a unique textbox ID.
Select a section	Select a section from already defined sections using the dropdown option.
Select a sub section	Select a sub-section from already defined sub-sections using the dropdown option.
Select type	Select any of the following textbox types: • **text** — Allows you to add a text type column. • **number** — Allows you to add a number type column. • **email** — Allows you to add email type column.
Enter max length	Define the maximum character length in the input field.
Enter regex string for validation	Define the regex string to put a validation on the input field.
Mandatory Check	Allows you to set the selected field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.
Smart Search	This checkbox allows you to map or set the required data to prompt recommendations for the textbox. On enabling the Smart Search checkbox, the following options appears: • **From Masters** — Allows you to map the required Masters defined in the database to fetch the required data. • **From Static Values** — Allows you to specify necessary values by using the '#' separator to prompt recommendations for a textbox type field. For instance, when configuring a form textbox field, you may set static values such as *Yes#No* to provide predefined options.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the field width and margin using a sliding bar.
4. Click **Add** to save the configurations for the textbox.

Adding a dropdown in input types

Perform the below steps to add a dropdown type input field for a form:

1. From the Input types configuration, select **Dropdown**. The Add Dropdown dialog appears.
2. Specify the following details:

Field	Description
Enter name for dropdown	Specify a dropdown name that you want to add.
Enter Id for dropdown	Specify a unique dropdown ID.
Picklist Type	This option allows you to map or set the required data to prompt recommendations for the dropdown. The following options are available: • **From Masters** — Allows you to map the required Masters defined in the database to fetch the required data. • **From Static Values** — Allows you to specify necessary values by using the '#' separator to prompt recommendations for a textbox type field. For instance, when configuring a form textbox field, you may set static values such as *Yes#No* to provide predefined options.
Select a section	Select a required section where you want to add the dropdown type input field.
Select a sub section	Select a required sub-section where you want to add the dropdown type input field.
Mandatory Check	Allows you to set the selected field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the field width and margin using a sliding bar.

4. Click **Add** to save the configurations for the dropdown.

Adding a button in input types

Perform the below steps to add a button for a form:

1. From the Input types configuration, select **Button**. The Add Button dialog appears.
2. Specify the following details:

Field	Description
Enter name for button	Specify a button name that you want to add.
Enter Id	Specify a unique button ID.
Select a section	Select a required section where you want to add a button.
Select a sub section	Select a required sub-section where you want to add a button.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the button width and margin using a sliding bar.
4. Click **Add** to save the configurations for the button.

Adding a date

Perform the below steps to add a date type input field for a form:

1. From the Input types configuration, select **Date type**. The Add Date dialog appears.
2. Specify the following details:

Field	Description
Enter name for datepicker	Specify a datepicker name that you want to add.
Enter Id for datepicker	Specify a unique datepicker ID.
Select a section	Select a required section where you want to add the date type input field.

Field	Description
Select a sub section	Select a required sub-section where you want to add the date type input field.
Mandatory check	Allows you to set the selected field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the date type field width and margin using a sliding bar.
4. Click **Add** to save the configurations for the date type input field.

Adding an empty box

Perform the below steps to add an empty box type input field for a form:

1. From the Input types configuration, select **Empty box**. The Add Empty Box dialog appears.
2. Specify the following details:

Field	Description
Enter Id	Specify a unique ID for empty box.
Select a section	Select a required section where you want to add an empty box type input field.
Select a sub section	Select a required sub-section where you want to add an empty box type input field.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the empty box width and margin using a sliding bar.
4. Click **Add** to save the configurations for the empty box type input field.

Adding a pan card scanner in input types

Perform the below steps to add a pan card scanner option for a form:

1. From the Input types configuration, select **Pan card scanner**. The Add pancard scanner dialog appears.

2. Specify the following details:

Field	Description
Enter name	Specify a pan card scanner name that you want to add.
Enter Id	Specify a unique pan card scanner ID.
Select a section	Select a required section where you want to add a pan card scanner.
Select a sub section	Select a required sub-section where you want to add a pan card scanner.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the pan card scanner option's width and margin using a sliding bar.
4. Click **Add** to save the configurations for the pan card scanner.

Adding a heading in input types

Perform the below steps to add a heading in a form:

1. From the Input types configuration, select **Heading**. The Add Heading dialog appears.
2. Specify the following details:

Field	Description
Enter name for heading	Specify a heading name that you want to add.
Enter Id	Specify a unique heading ID.
Select a section	Select a required section where you want to add a heading.
Select a sub section	Select a required sub-section where you want to add a heading.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the heading width and margin using a sliding bar.
4. Click **Add** to save the configurations for the heading.

Adding a checkbox in input types

Perform the below steps to add a checkbox type field for a form:

1. From the Input types configuration, select **Check box**. The Add Checkbox dialog appears.
2. Specify the following details:

Field	Description
Enter name for checkbox	Specify a checkbox name that you want to add.
Enter Id for checkbox	Specify a unique checkbox ID.
Select a section	Select a required section where you want to add a checkbox.
Select a sub section	Select a required sub-section where you want to add a checkbox.
Mandatory check	Allows you to set the selected field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the checkbox width and margin using a sliding bar.
4. Click **Add** to save the configurations for the checkbox.

Adding a table

The NEMF App Platform offers grid support for table creation during app development. For example, in a banking app, you can utilize this feature to create a table displaying transaction history, presenting details such as date, amount, and transaction type. This provides users with a comprehensive overview of their financial activities at a glance.

Perform the below steps to add a table for a form:

1. From the Input types configuration, select **Table**. The Add Table dialog appears.

2. Specify the following details:

Field	Description
Enter table name	Specify a table name that you want to add.
Enter Id for table	Specify a unique table ID.
Select a section	Select a required section where you want to add a table.
Select a sub section	Select a required sub-section where you want to add a table.
Select column type to add	Select any of the following column types: • Text — Allows you to add a text, number, or email type column. • Dropdown — Allows you to add a dropdown type column. • Checkbox — Allows you to add a checkbox type column. • Date — Allows you to add a date type column.

Text:

Field	Description
Enter name for textbox	Specify a textbox name for a table column.
Enter Id for textbox	Specify a unique column ID.
Select type	Select any of the following textbox types: • **text** — Allows you to add a text type column. • **number** — Allows you to add a number type column. • **email** — Allows you to add email type column.
Mandatory check	Allows you to set the specified textbox as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.
Smart search	Enabling this checkbox allows you to map or set the required data to prompt recommendations for the text type input field.

Field	Description
Smart search type	After enabling the Smart search checkbox, select any of the following options: • **From Masters** — Allows you to map the required Masters defined in the database to fetch the required data. • **From Static Values** — Allows you to specify necessary values by using the '#' separator to prompt recommendations for a textbox type field. For instance, when configuring a form textbox field, you may set static values such as *Yes#No* to provide predefined options.
Add Column	Allows you to add the specified column.

Dropdown:

Field	Description
Enter name for dropdown	Specify a dropdown name that you want to add.
Enter Id for dropdown	Specify a unique dropdown ID.
Picklist Type	This option allows you to map or set the required data to prompt recommendations for the dropdown. The following options are available: • **From Masters** — Allows you to map the required Masters defined in the database to fetch the required data. • **From Static Values** — Allows you to specify necessary values by using the '#' separator to prompt recommendations for a textbox type field. For instance, when configuring a form textbox field, you may set static values such as *Yes#No* to provide predefined options.
Mandatory Check	Allows you to set the specified dropdown field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.
Add Column	Allows you to add the specified column.

Checkbox:

Field	Description
Enter name for checkbox	Specify a checkbox name that you want to add.

Field	Description
Enter Id for checkbox	Specify a unique checkbox ID.
Add Column	Allows you to add the specified column.

Date:

Field	Description
Enter name for datepicker	Specify a datepicker name that you want to add.
Enter Id for datepicker	Specify a unique datepicker ID.
Mandatory check	Allows you to set the specified date type field as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.

3. Click **Add** to save the configurations for the table.

Adding a passport scanner in input types

Perform the below steps to add a passport scanner type option for a form:

1. From the Input types configuration, select **Passport scanner**. The Add passport scanner dialog appears.
2. Specify the following details:

Field	Description
Enter name	Specify a passport scanner name that you want to add.
Enter Id	Specify a unique passport scanner ID.
Select a section	Select a required section where you want to add a passport scanner.
Select a sub section	Select a required sub-section where you want to add a passport scanner.

3. (Optional) Click **Add & customise**. The field gets saved and the Customize Positioning dialog appears that allows you to set the passport scanner option's width and margin using a sliding bar.

4. Click **Add** to save the configurations for the passport scanner.

Adding a custom UI control

Perform the below steps to add a custom UI control to your application:

1. On the Form View Controls pane, click the **Custom Ui Controls** dropdown. A list of available custom UI controls appears.
   Alternatively, you can create a new UI control and use it. For procedural details, refer to the Creating a custom UI control section.
2. Click the add icon ➕ against the required control. The dialog specific to the selected control appears.
3. Specify the **Name** of the custom control.
4. Specify a distinct **ID** for the control. This ID uniquely identifies the control within the app.
5. From the **Select a Section** dropdown, select the required section where you want to add the control in the app.
6. Click **Add**. The control gets added to the app.

Adding attachments

On the Form View Controls pane, click the **Attachments** dropdown and select any of the following options:

- Form Level Attachment
- Section Level Attachment

Adding form-level attachment

Perform the below steps to add form-level attachment in the form view:

1. Select **Form Level**. The Add Form Attachment dialog appears.
2. Specify the following to add form level attachment:

Field	Description
Name of attachment	Enter the attachment name that you want to display on the form view.
Select a form	Select a form using ⌄ given against the tab.
Map to OmniDocs	Select the checkbox to map the attachment type to OmniDocs.

Field	Description
Enter attachment type	When Map to OmniDocs is enabled, you can select the attachment type using ⌄ given against the attachment field.
Minimum number of attachments	It is mandatory to specify the minimum attachment number that you want to add on form view. Minimum attachment number specification is necessary to mark the document complete.
Maximum number of attachments	It is mandatory to specify the maximum attachment number that you want to add on the form view. Maximum attachment must be greater than or equal to the number of minimum attachment.
Mandatory Check	Allows you to set the specified attachment as mandatory for form submission. • **Yes** — Enables the mandatory check for the selected field. • **No** — Disables the mandatory check for the selected field.
Select file type	Select any of the following file types: • Image • PDF • Word • Excel • PowerPoint • Audio • Video If you select an image file type, then see Image Source for further configurations.

3. Click **Add** to save the configurations.

Image source

If the selected file type is an image in Image Source, the following options appears:

1. Select any of the following image source:
   - Camera (Device Camera)
   - Canvas (HTML Canvas for signatures)
   - Map (Capture Geolocation)

2. After selecting the camera in the image source, choose any of the following camera options as per your requirement.
   - Custom Camera:
   - Advanced Camera
   - Zone Capture Camera
3. Select a camera megapixel from the available sizes (that is. 3 MP, 5 MP, 8 MP) as per your requirement.
4. Select Image Quality from the range (1 - 100) for further controlling the image size.
5. Choose **Yes** to enable the **Auto focus** functionality of the camera.
6. Select **Yes** in **Require binarization** to produce binarized image output (that is black and white image).
7. Select **Yes** to enable **Require perspective correction** (that is. any vertical or horizontal distortion in the image corrected automatically after the image is taken).

> **Require binarization** and **Require perspective correction** features are available in custom cameras only.

Adding a section-level attachment

1. Select **Section level**. The Add Section Attachment dialog appears.
2. Specify configurations for section level attachment as explained in Adding form level attachment.

Creating a custom UI control

The Custom UI Controls feature allows you to create unique user interface (UI) elements based on your business requirements. To create a custom UI control for your application, compose the following:

- Hypertext Markup Language (HTML) code to create the layout of the control.
- Cascading Style Sheet (CSS) to define the appearance of the control.
- JavaScript (JS) to associate a function or behavior with the control.

Once created, you can use the control in designing the applications.

For example, you are developing an application that allows users to upload files to a cloud storage device. Uploading larger files might take some time, and the users must know the progress of the upload. You can create a progress indicator to keep the users informed of their file upload progress.

Perform the below steps to create a custom UI control:

1. On the Form View Controls pane, click the **Custom Ui Controls** dropdown.
2. Click **Create New**. The page to create a new custom UI control appears.
3. In the HTML section, write an HTML code to create the layout of the control. Alternatively, click **Import** to import an existing HTML file from your machine.
   For example, write an HTML code to create the layout of the progress indicator:
   ```
   <!DOCTYPE html>
   <html lang="en">
   <head>
       <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <link rel="stylesheet" href="styles.css">
       <title>File Upload Progress</title>
   </head>
   <body>
       <div class="progress-container">
           <div class="progress-bar" id="progressBar"></div>
       </div>
       <input type="file" id="fileInput">
       <script src="script.js"></script>
   </body>
   </html>
   ```
4. In the CSS section, write a CSS code to configure the appearance of the layout defined in the HTML section. Alternatively, click **Import** to import an existing CSS file from your machine.
   For example, write a CSS code to configure the appearance of the progress indicator:
   ```

   progress-container {
       width: 100%;
       height: 20px;
       background-color: #f0f0f0;
       border-radius: 10px;
       overflow: hidden;
   ```

```
    margin-top: 20px;
}

progress-bar {
    height: 100%;
    background-color: #3498db;
    width: 0;
    transition: width 0.3s ease;
}
```

5. In the JS section, write a JS code to associate a function or behavior with the control. Alternatively, click **Import** to import an existing JS file from your machine. For example, write a JSS code to configure the behavior of the progress indicator:

```
document.getElementById("fileInput").addEventListener("change", function() {
    const progressBar = document.getElementById("progressBar");
    progressBar.style.width = "0%";

    const file = this.files[0];
    const fileSize = file.size;

    const chunkSize = 1024 * 1024; // 1MB chunks
    let uploadedBytes = 0;

    const uploadInterval = setInterval(function() {
        if (uploadedBytes >= fileSize) {
            clearInterval(uploadInterval);
        } else {
            uploadedBytes += chunkSize;
            const progress = (uploadedBytes / fileSize) * 100;
            progressBar.style.width = `${progress}%`;
        }
    }, 1000);
});
```

6. Click **Apply Changes**. A preview of the created custom control appears.

> You can use the **Apply Changes** option at any time when you want to verify the appearance and behavior of the control.

7. Click **Save Template**. The created UI control gets saved.

Importing app code with custom logic

The Import option allows you to bring the app code created using either NEMF or an external platform, with or without custom logic, to the NEMF app platform. This functionality enables you to download the foundational app code along with any customized business logic to your machine.

Perform the below steps to import the app code with custom logic to the NEMF app platform:

1. Navigate to the Form View Controls page and click **Import**.
2. Select the required app code file from your machine.

   > This file can be the one generated externally or previously exported from the NEMF app platform.

   The content of the file, including the original code and any added custom logic, gets imported to the NEMF app platform.

3. Click **SAVE**. You can now view the application on the platform reflecting both the original code and the custom logic.

   > Creating or implementing any custom code within the NEMF app platform is not permissible. However, you can preview the app with complete logic.

Now, when you attempt to download the app code, a complete package containing both the original code and the custom logic gets downloaded. For information on downloading the app code, refer to Downloading code of the created app.

Material design template

Material design template is another flavour of UI provided by NEMF based on material design by Google. It has features such as multi-page form, multi-BUC support, accent color, dark UI and more in the three views.

The material template comprises the following:

- Login View
- Dashboard View
- Form View

> **!** To download Android and iOS app or project code, refer to download app code.

The following configurations are applicable for Material design template:

Configuration	Description
Login view	Refer to the Configuring the login view section. Following are the additional fields on the login view: • App Theme — Select the checkbox to choose app theme or accent color for light mode. • Dark Theme — Select the checkbox to choose app theme or accent color for dark mode.
Dashboard view	Refer to the Configuring the dashboard view section. The  field is different on the dashboard view: Click **+BUC** to add more business uses cases in the dashboard view.
Form view	Refer to the Configuring the form view section.

Configuring form view in material design template

Perform the below steps to configure form view in material design template:

1. Go to **Home**.
2. Click **Form View**. The Form view screen appears.
3. Specify the following for form view configuration:

Field	Description
BUC	Select the BUC using dropdown to define the name.
Form Name	Specify the form name associated with the BUC name.
Sections	Specify the following details to create a new section. • Section • Sub section
Input Types	Input Types comprise various options and allow you to edit them accordingly. The options are as follows: • Textbox • Date Type • Pancard scanner • Heading • Passport scanner • Button • Empty Box • Dropdown • Check Box • Table

Field	Description
Attachments	It is a section-level attachment allowing you to edit the configuration for the attachment.

Adding a section

Perform the below steps to add section:

1. Go to Form view controls and click given in the Section field.
2. The Section field comprises the following:
   - +Section
   - +Sub section
3. Click **+Section**. The Add Section dialog appears.
4. Enter **section name** and **Id**.
5. Select **Has attachments** checkbox to enable attachments in the textbox.
6. Click **Add** to save the configuration.
7. To add sub section, click + Sub section. The Add Sub Section screen appears.
8. Enter **sub section name** and **Id**.
9. Select a section using .
10. Click **Add** to save the configuration.

Adding a text box

Perform the below steps to add a text box:

1. Go to **Form View Controls** given at the left pane.
2. Click given against the Input Types.
3. Click + Text box . The Add Textbox screen appears.
4. Specify the following in the add textbox dialog:

Field	Description
Enter name	Enter the textbox name.
Enter Id	Enter the textbox Id.
Select a section	Select a section using given against the field.
Select a sub section	Select a sub section using as required.

Field	Description
Select type	Select any one from the following using : • text • number • email
Enter max length	Define the maximum character length in the input field.
Enter regex string for validation	Define the regex string to put a validation on the input field.
Mandatory Check	Select Yes to make this field mandatory for submission.
Smart Search	Select the checkbox to enable smart search. Once smart search is enabled, select Master or Static Value for smart search type using .
Add & Customize	Click **Add & Customize** to select input container positioning and click **Done**.
Add	Click **Add** to save the configuration.

- To add button, refer to add button.
- To add date type, refer to add date.
- To add empty box, refer to add empty box.
- To add pan card scanner, refer to add pancard scanner.
- To add dropdown, refer to add dropdown.
- To add heading, refer to add heading.
- To add check box, refer to add checkbox.
- To add table, refer to add table.
- To add passport scanner, refer to add passport scanner.

In all the fields given in input type tab, you can also select a sub section using given against the each field.

Viewing the created app

It’s the landing page that appears after successful login. It shows at most four latest apps created in App Platform (you can see all the created apps in APPS tab). You can also create a new app by clicking on CREATE NEW APP option.

Viewing created apps

Perform the below steps to view created apps:

1. Click **APPS** in the left pane.
2. Click **APPS**. The NEMF App Platform screen appears.
3. Click to delete the created app.
4. Click to download the app as a zip file built-in Android studio as a project.
5. Click to directly download the “.apk” file built on a cloud server.

Deleting an app

Perform the below steps to delete an app:

1. Go to **APPS**.
2. Click given against the app that you want to delete The delete confirmation dialog appears.
3. Click **CONFIRM** to delete the app. The deleted app gets removed from the list of apps.

Approval app

The approval app allows you to approve the fields given in the existing template.

Perform the below steps to create a new app:

1. Go to the NEMF App Platform Screen. Refer to the Creating a new app section.
2. Click **CREATE NEW APP**. The Setup App Basic Information dialog appears.
3. Select the **Approval App**.
4. Enter the **App Name** and click **Next**.
5. Upload the **App Icon** and click **Next**.

    It is mandatory to upload app icons when creating a new app and use square images while uploading.

6. Upload the **App Splash Screen** and click **Continue**.

    Uploading the app splash screen is optional.

    The Choose Template screen appears. For more information, refer to Choosing a template.

Login view configuration

For login view configuration in a regular template, refer to Configuring the login view. For login view configuration in the material design template, refer to the Login view.

Configuring the case list view

The case list view has pre-defined templates. It allows you to configure the templates and can show the live view of configured templates of the case list view.

Perform the below step to create Caselist View:

1. Go to **Home**.
2. Click **Caselist view**. The Caselist view screen appears.

3. Specify the following to configure the Caselist view:

Field	Description
BUC Name	Define the BUC name.
Form Name	Defines the form name.
Import Fields	Click + to add import fields. The Enter Omnidocs/ Omniflow fields screen appears. Enter the #separated fields and click Add Fields.
Visible	Select the checkbox to make the field being defined visible on the case list view.
Position	Define the priority or order of the field is defined in the case list view.
Alias	Define the name of the field.

Configuring the form view

To configure the form view in the regular template, refer to Configuring the form view. To configure the form view in the material design template, refer to the Form view.