



Joget DX 8

Designing Your First UI

Overview

- 5 Sign-ups
 - 7 Enquiries
 - 8 Demos

 <http://facebook.com/jogetworkflow>
 <http://twitter.com/jogetworkflow>

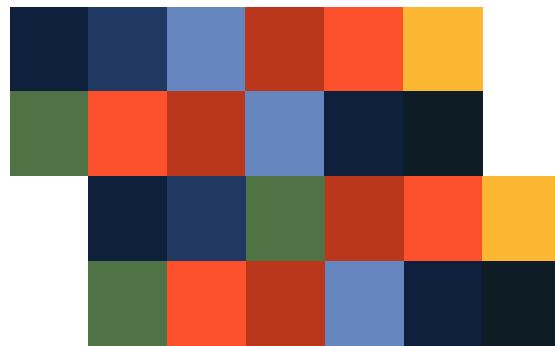
Last Revised on Jan 2023

Prerequisites

- Created Process, Form, and Datalist.

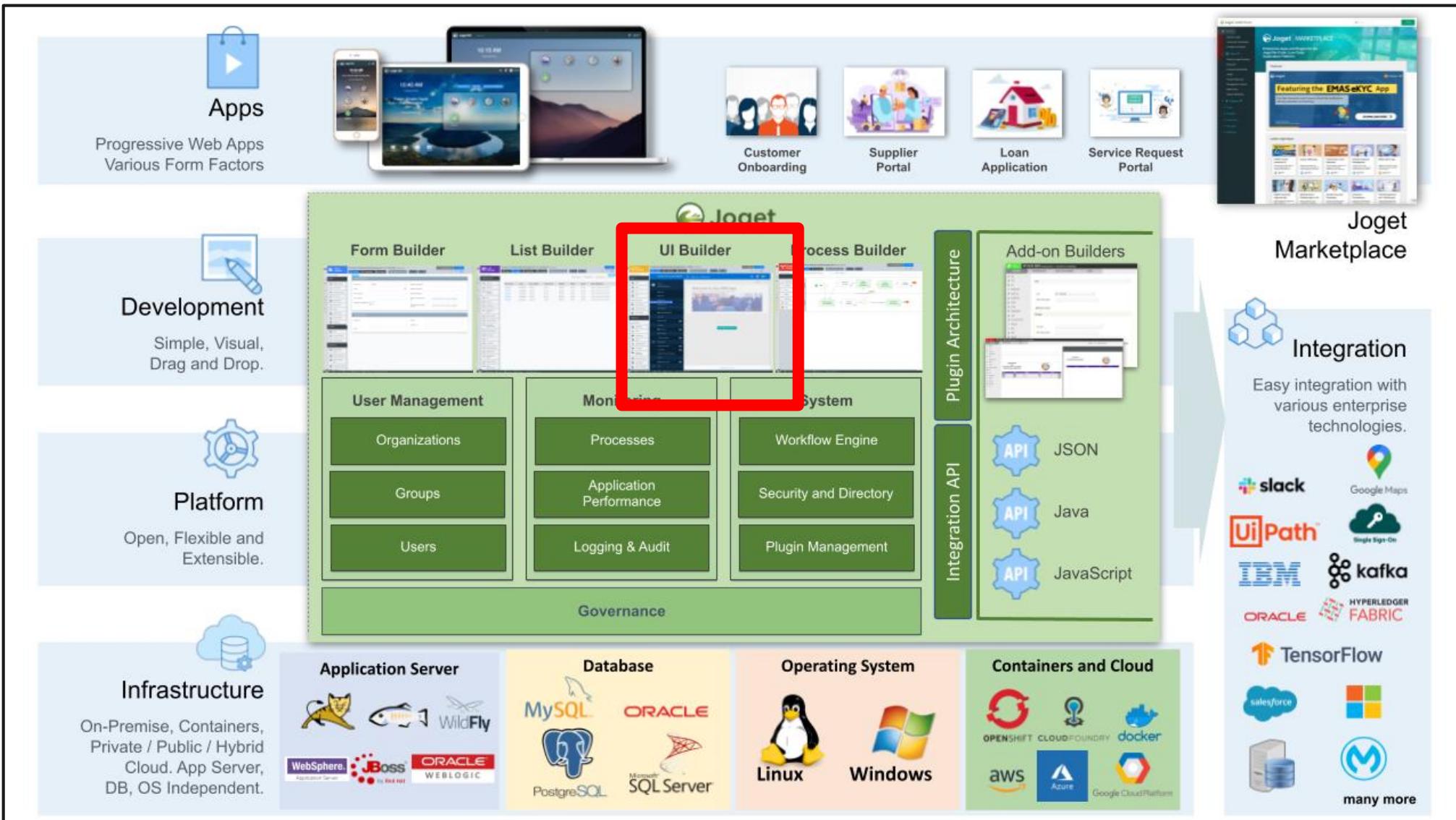
Content

1. Introduction to UI Builder
2. Designing Your First UI
3. Introduction to Page Component
4. Introduction to PWA



Chapter 1

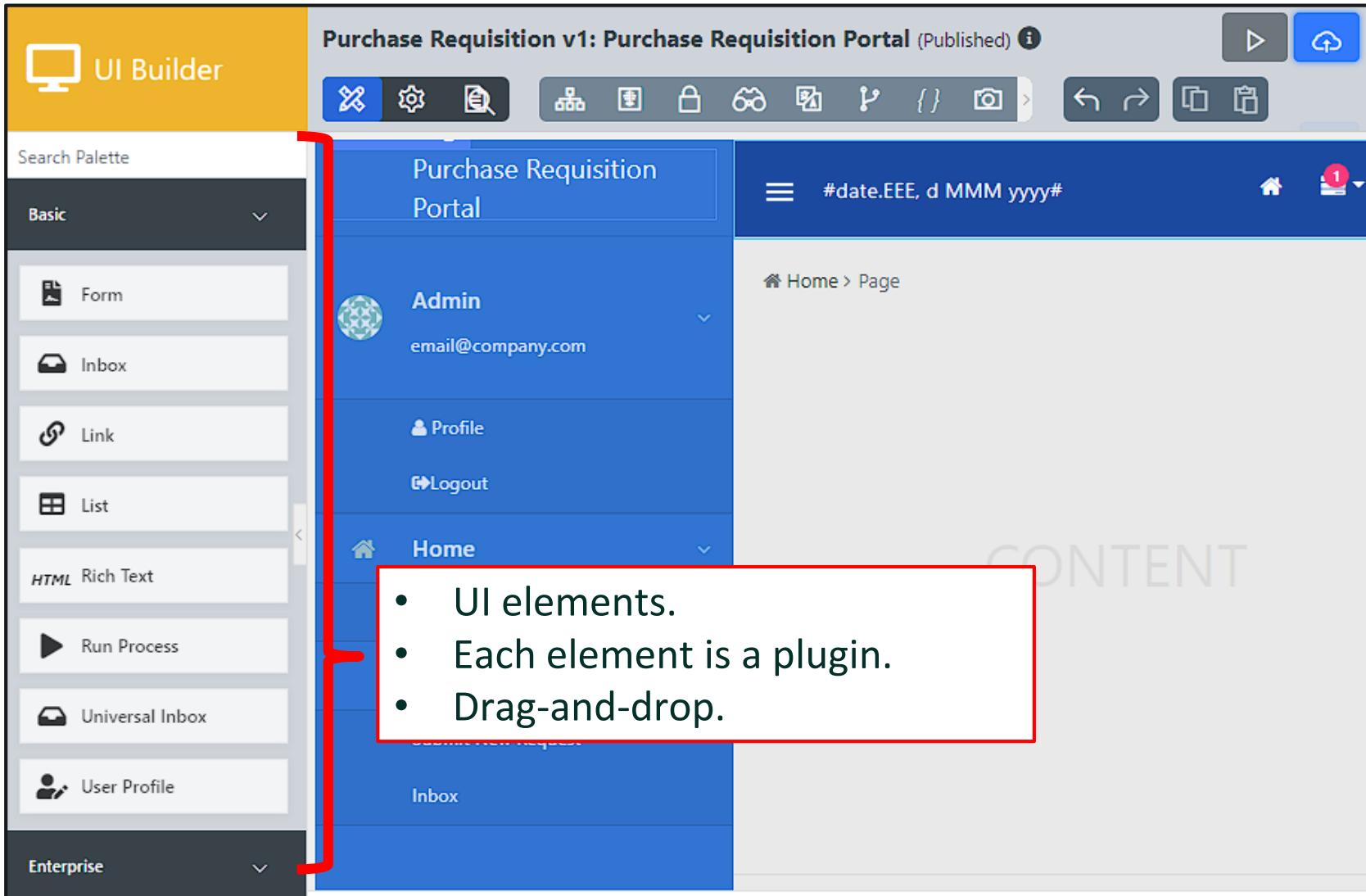
Introduction to UI Builder



UI Builder

- Application front-end interface builder.
- Serves as the wrapper for forms, processes, datalists.
- Extensible functionalities through Joget's plugin architecture.

UI Builder



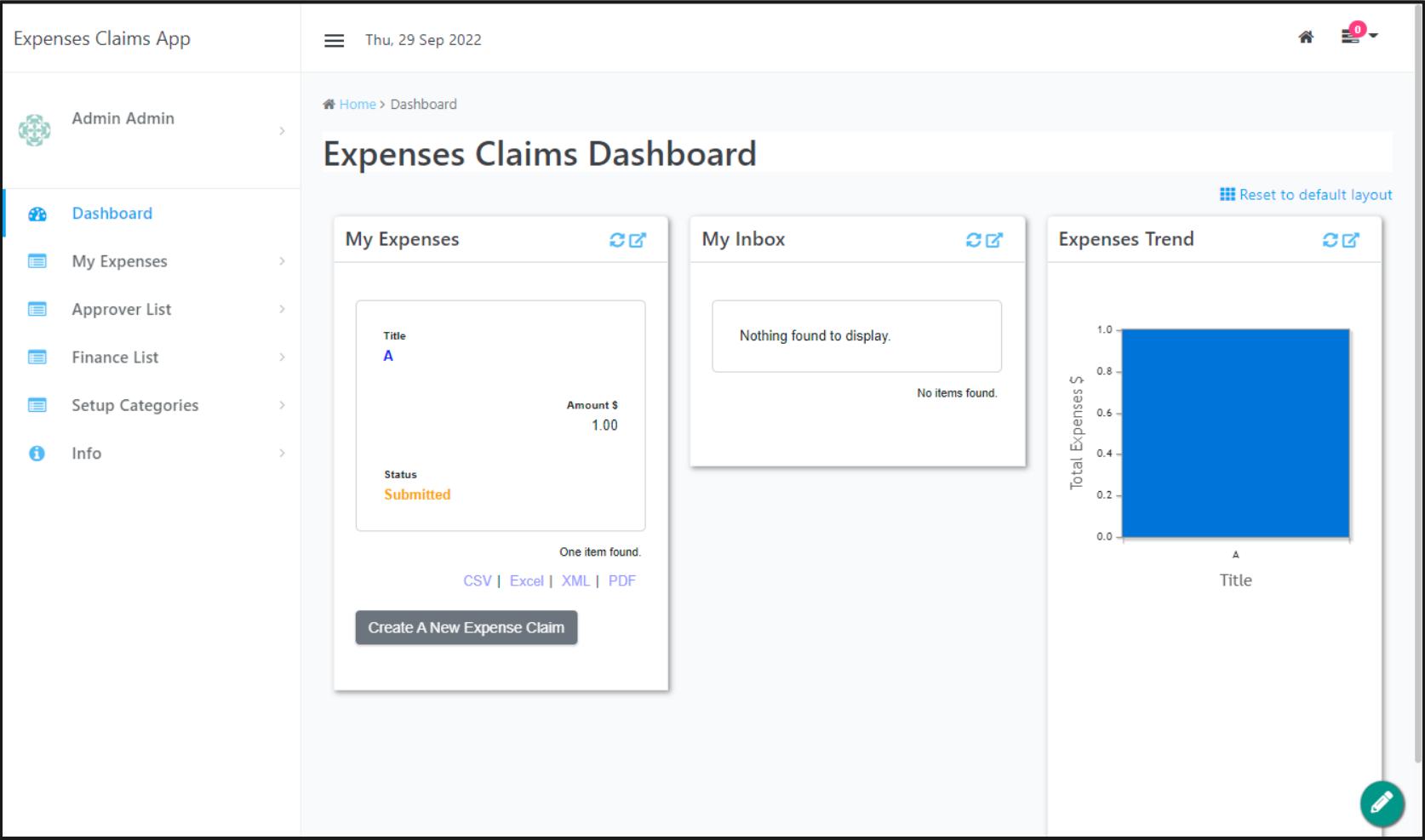
The screenshot shows the Joget UI Builder interface. On the left is a vertical sidebar titled "UI Builder" containing a "Search Palette" and several category tabs: "Basic", "HTML Rich Text", "Enterprise", and "Enterprise". A red vertical line highlights the "Basic" tab. To its right is a main workspace titled "Purchase Requisition v1: Purchase Requisition Portal (Published)". The workspace contains a header bar with various icons, a sidebar menu, and a content area displaying a user profile for "Admin" and a date placeholder "#date.EEE, d MMM yyyy#". A red box highlights the content area, which lists three bullet points:

- UI elements.
- Each element is a plugin.
- Drag-and-drop.

The background of the workspace has a watermark reading "CONTENT".

UI Builder

- Sample UI using the DX 8 Plain theme



The screenshot shows the Expenses Claims Dashboard for the "Admin Admin" user. The dashboard features a sidebar with navigation links: Dashboard, My Expenses, Approver List, Finance List, Setup Categories, and Info. The main content area includes three cards: "My Expenses" (one item found, title A, amount \$1.00, status Submitted), "My Inbox" (nothing found to display), and "Expenses Trend" (a bar chart showing Total Expenses \$1.00 for Title A). A "Create A New Expense Claim" button is located at the bottom of the dashboard.

Expenses Claims App

Thu, 29 Sep 2022

Admin Admin

Home > Dashboard

Expenses Claims Dashboard

[Reset to default layout](#)

My Expenses

Title A
Amount \$ 1.00
Status Submitted

One item found.
[CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

[Create A New Expense Claim](#)

My Inbox

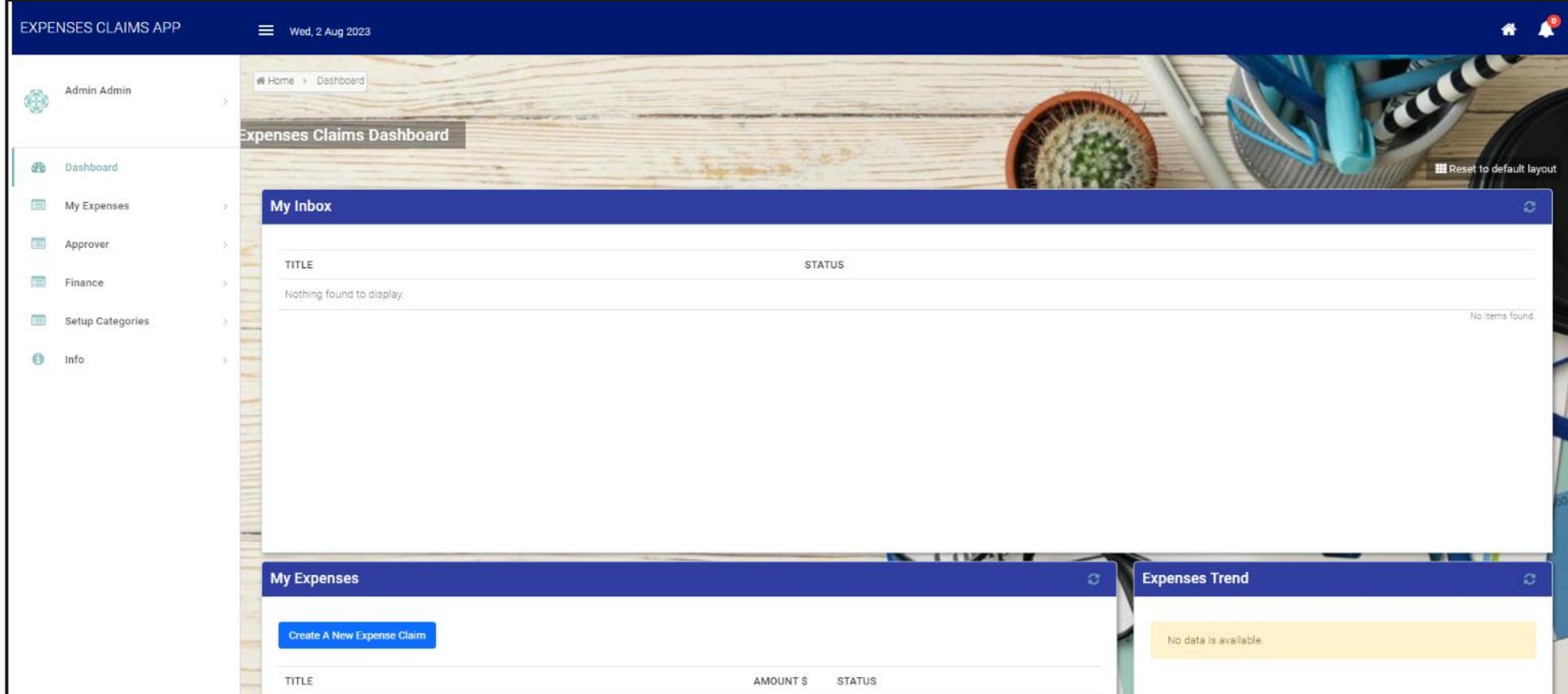
Nothing found to display.
No items found.

Expenses Trend

Total Expenses \$
A
Title

UI Builder

- Sample UI using the **DX 8 Angle** theme



The screenshot displays the Expenses Claims App dashboard using the DX 8 Angle theme. The interface features a dark blue header bar with the app name "EXPENSES CLAIMS APP" and the date "Wed, 2 Aug 2023". On the left, a sidebar menu lists navigation options: Admin Admin, Dashboard, My Expenses, Approver, Finance, Setup Categories, and Info. The main content area has a wooden background image. At the top of the main area, a breadcrumb navigation shows "Home > Dashboard". Below it, a title bar reads "Expenses Claims Dashboard". A central section titled "My Inbox" shows a table with columns "TITLE" and "STATUS", stating "Nothing found to display." To the right, a message "No items found." is visible. At the bottom of the main content area, there are two cards: "My Expenses" (with a "Create A New Expense Claim" button) and "Expenses Trend" (which displays the message "No data is available."). The top right corner of the screen includes icons for home, refresh, and notifications, with a notification count of 9.

UI Builder

- Sample UI using the **DX 8 Color Admin** theme

EXPENSES CLAIMS APP

Thu, 29 Sep 2022

Home / Dashboard

Admin Admin

Dashboard

My Expenses

Approver List

Finance List

Setup Categories

Info

Reset to default layout

My Expenses

My Inbox

Expenses Trend

Title A

Amount \$ 1.00

Status Submitted

One item found.

CSV | Excel | XML | PDF

Create A New Expense Claim

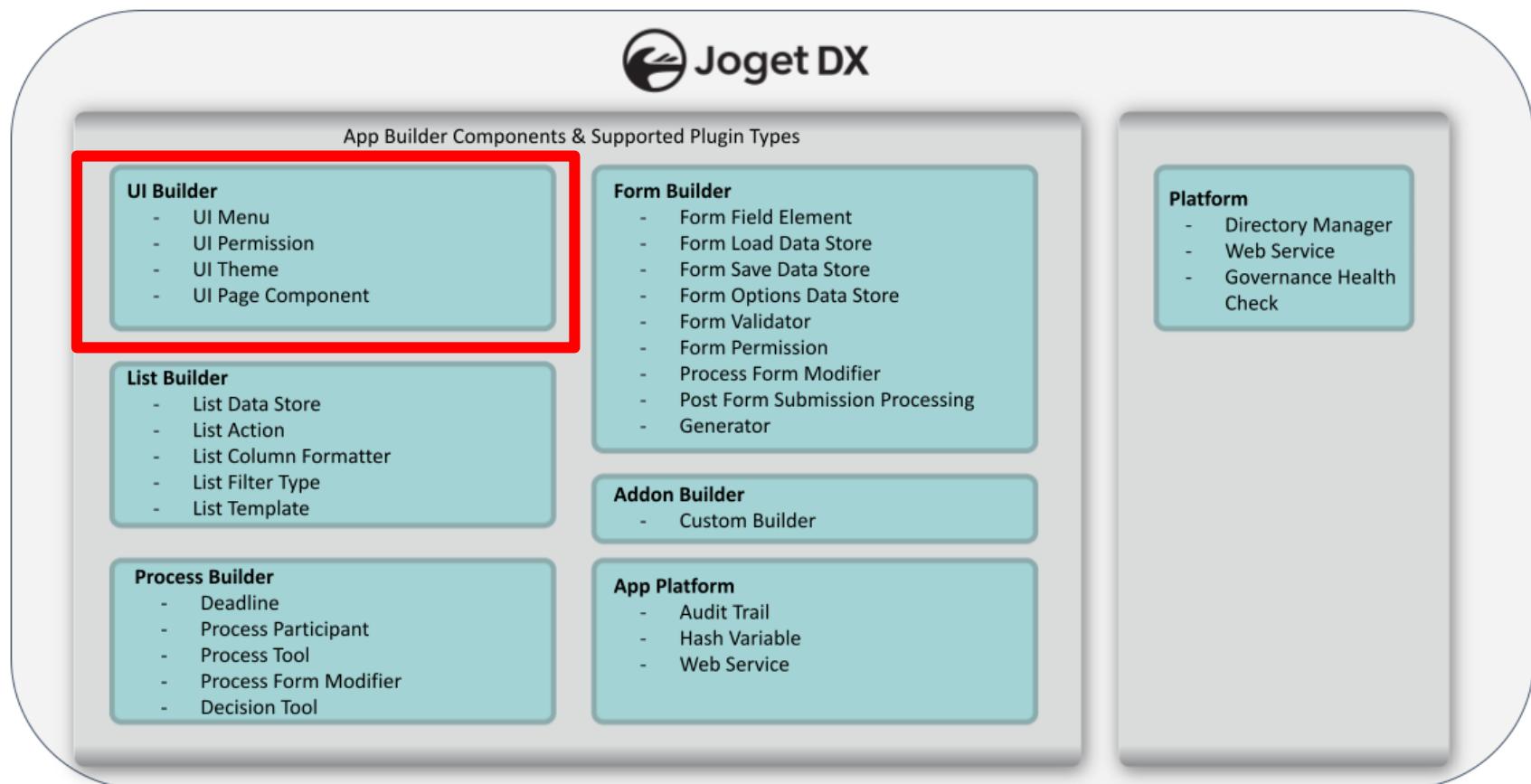
Reset to default layout

Total Expenses \$ 1.00

Home

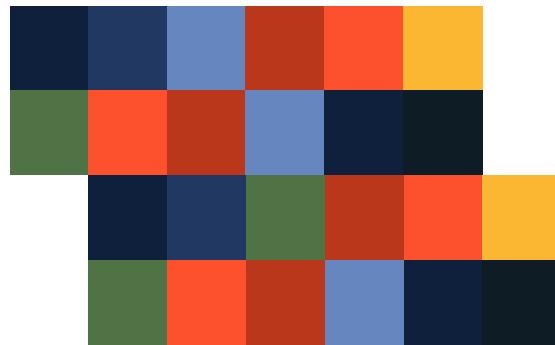
Notification

Plugin Types



Chapter Review

- General understanding of the UI Builder and its functionality.
- General understanding on its elements and its extensibility capability.



Chapter 2

Designing Your

First UI

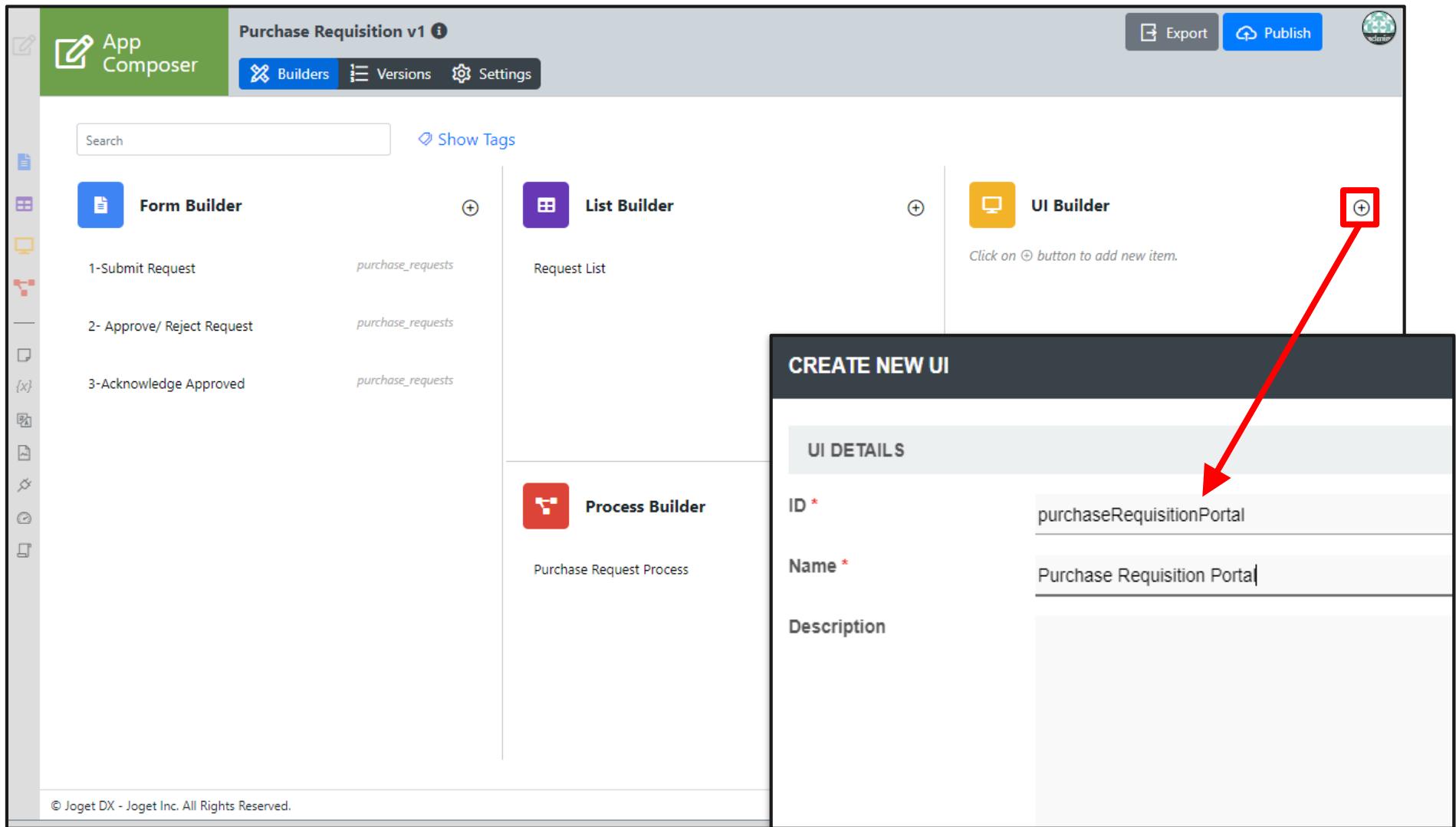
Before You Continue

- This chapter serves more or less a recap of what we have learnt previously in
 - Designing your First Process
 - Designing your First Form
 - Designing your First Datalist

Just In Case...

- You can download the base Purchase Requisition app – **7.2.jwa** to start ‘playing around’ with it.

Create New UI



The screenshot shows the Joget App Composer interface for a 'Purchase Requisition v1' application. The top navigation bar includes 'App Composer', 'Purchase Requisition v1', 'Builders', 'Versions', 'Settings', 'Export', 'Publish', and a user icon.

The main area displays four builder components:

- Form Builder**: Shows three items: '1-Submit Request' (purchase_requests), '2- Approve/ Reject Request' (purchase_requests), and '3-Acknowledge Approved' (purchase_requests).
- List Builder**: Shows one item: 'Request List'.
- Process Builder**: Shows one item: 'Purchase Request Process'.
- UI Builder**: Shows a placeholder message: 'Click on + button to add new item.' with a red arrow pointing to the '+' button.

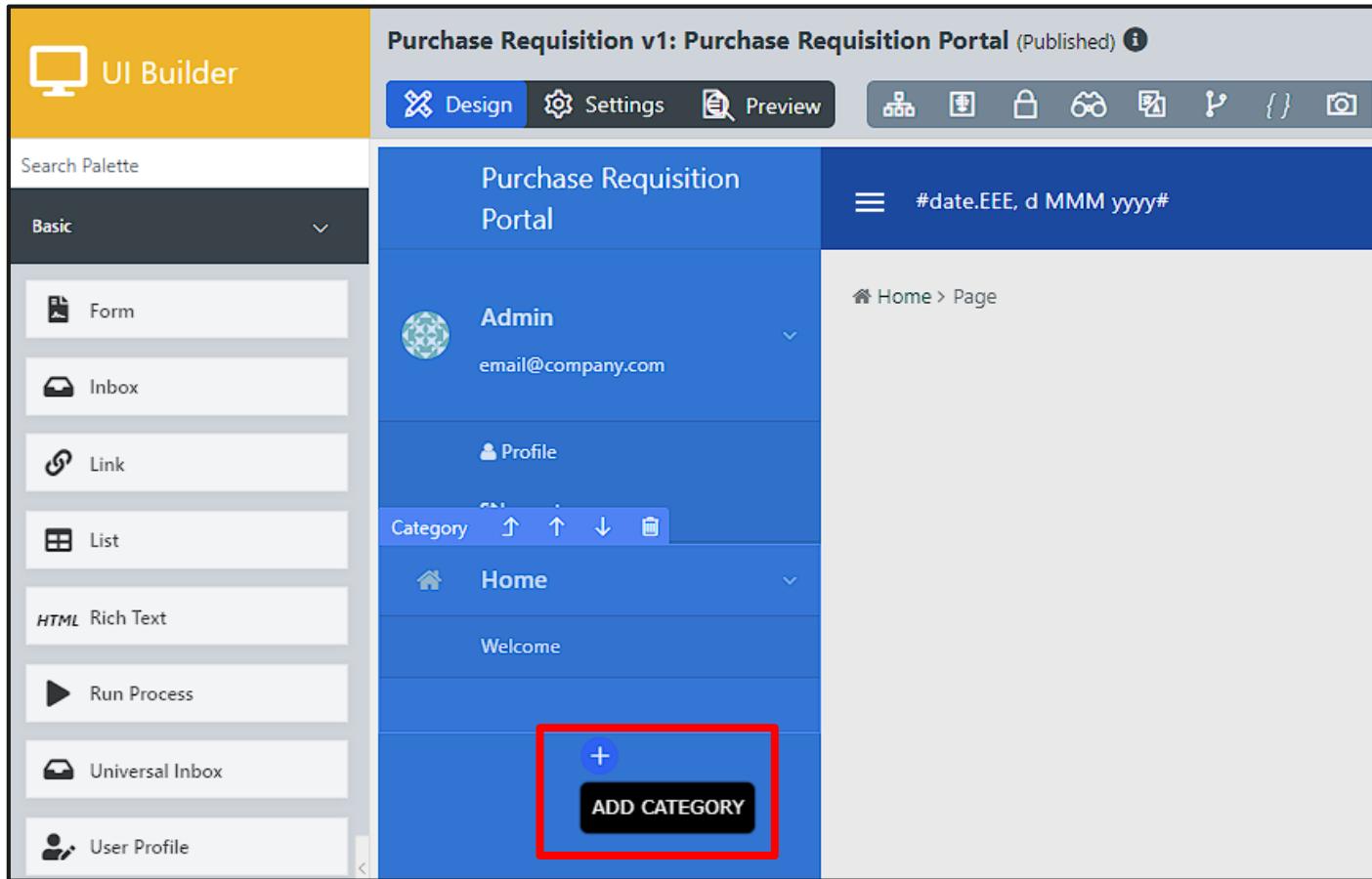
A modal window titled 'CREATE NEW UI' is open in the bottom right corner, containing the following fields:

UI DETAILS	
ID *	purchaseRequisitionPortal
Name *	Purchase Requisition Porta
Description	

At the bottom left of the main interface, there is a copyright notice: '© Joget DX - Joget Inc. All Rights Reserved.'

UI Category

- Items are organized by Category.
- Add 1 new category – Purchase Requisition



Purchase Requisition v1: Purchase Requisition Portal (Published) [i](#)

Design Settings Preview ≡ {} ...

Purchase Requisition Portal

Admin
email@company.com

Profile

Category ↑ ↑ ↓ ↵

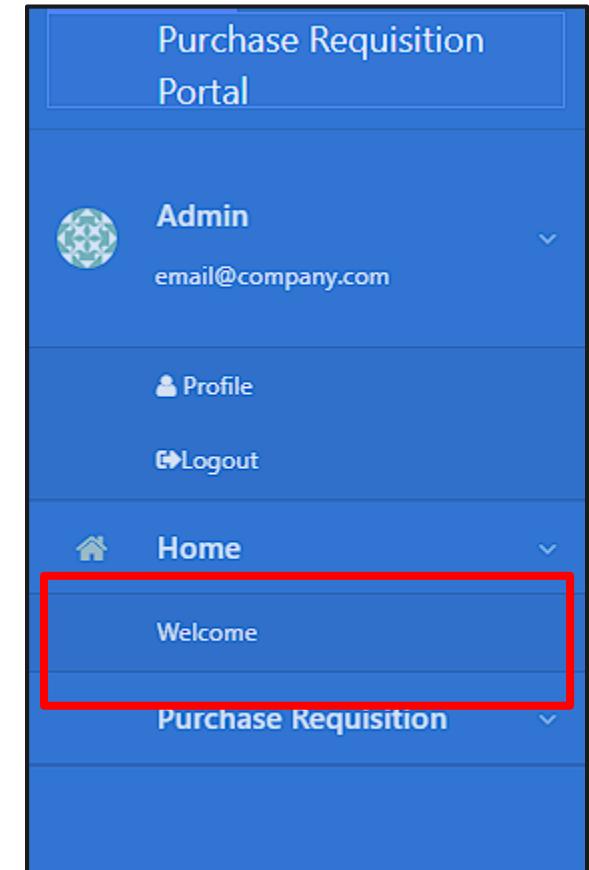
Home

Welcome

ADD CATEGORY

HTML Page As the First Item

- When the **UI** is loaded, the first available (and permissible) item will be loaded automatically.
 - **HTML Page** is recommended as the first menu item, to serve as the landing page.
 - It will be automatically added when a new UI is created.
 - You may edit as needed by clicking it, where the properties panel will pop up on the left
-
- Reference:
<http://dev.joget.org/community/display/DX8/HTML+Page>

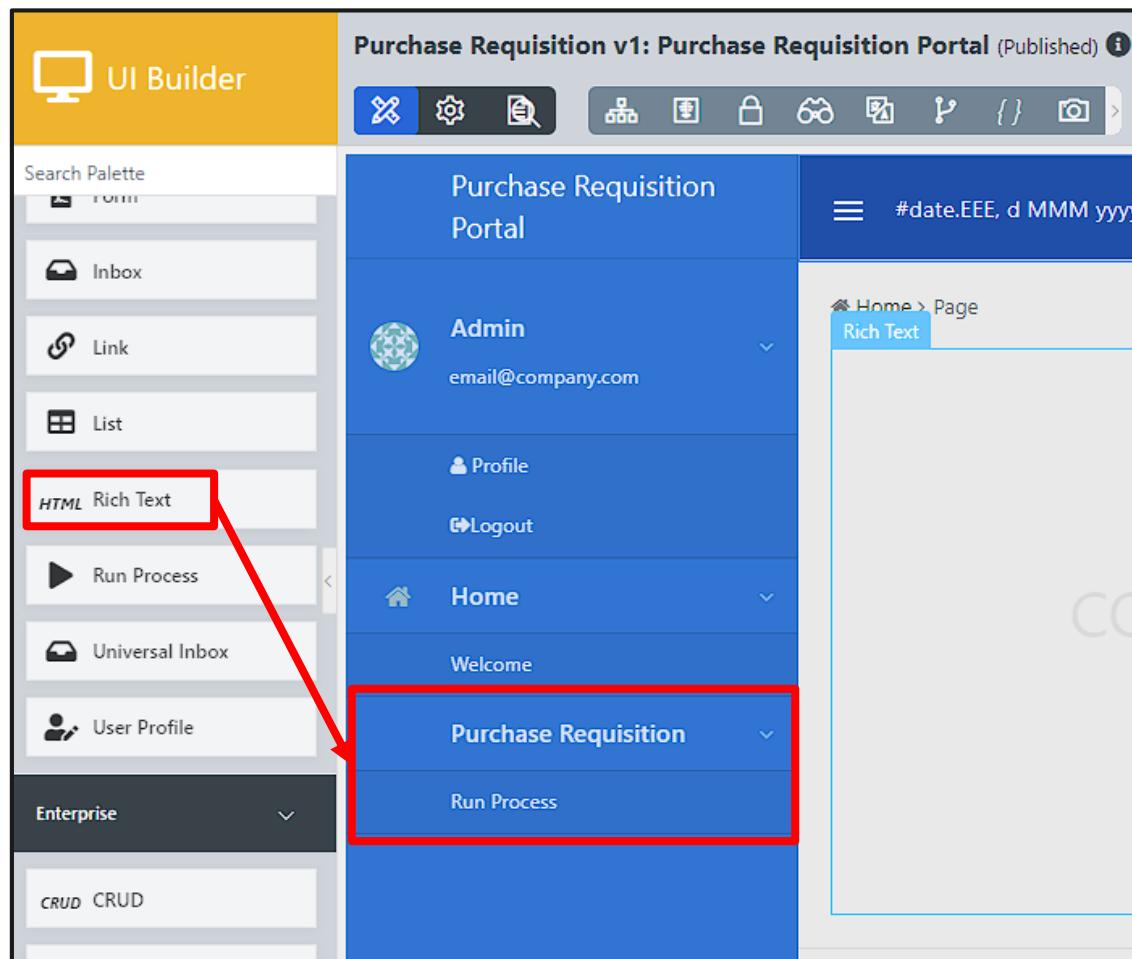


Run Process Menu

- **Run Process** enables one to start a process instance from the UI.
- Reference:
<http://dev.joget.org/community/display/DX8/Run+Process+Menu>

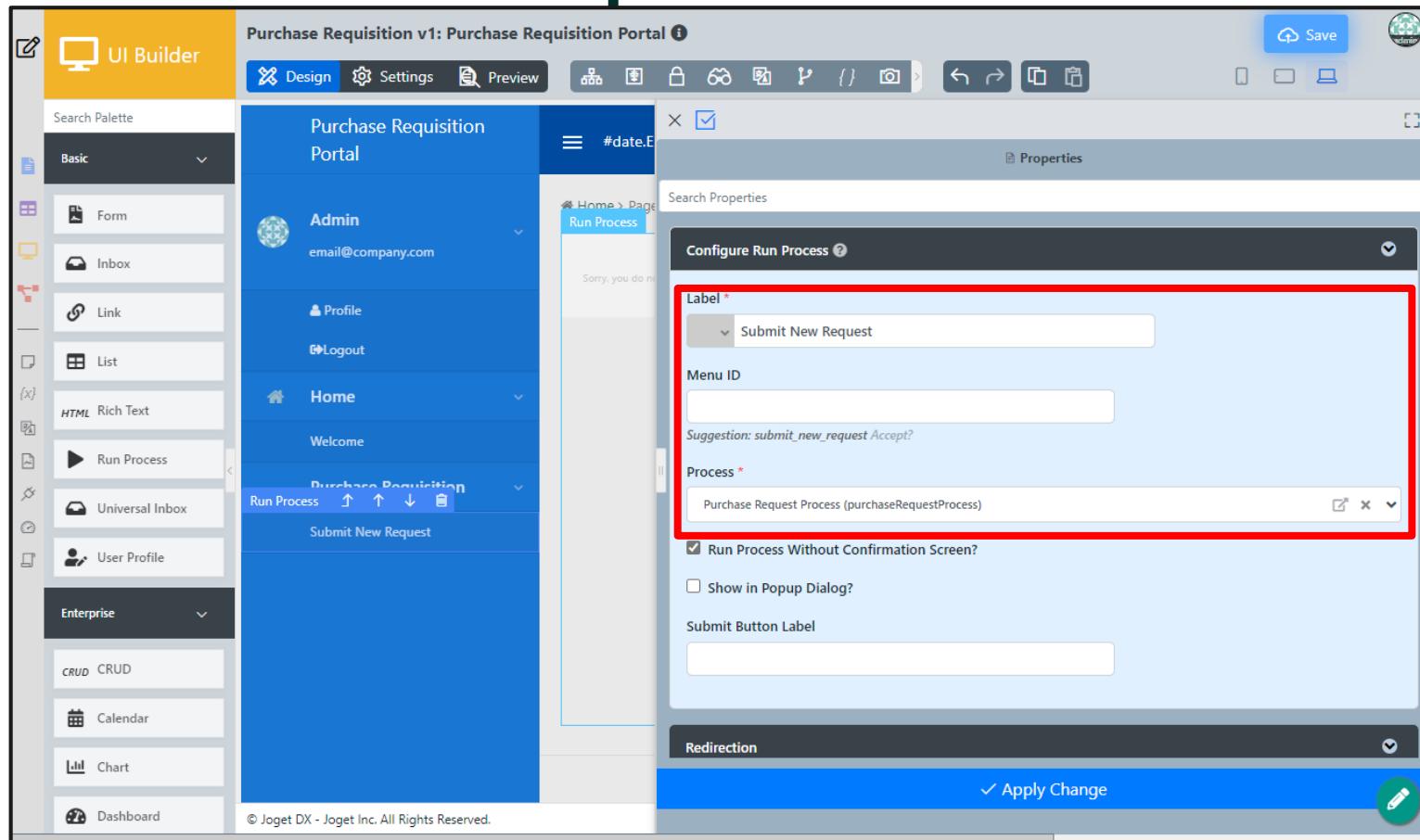
Add Run Process Into UI

- Drag-n-drop **Run Process** into **Purchase Requisition** category.



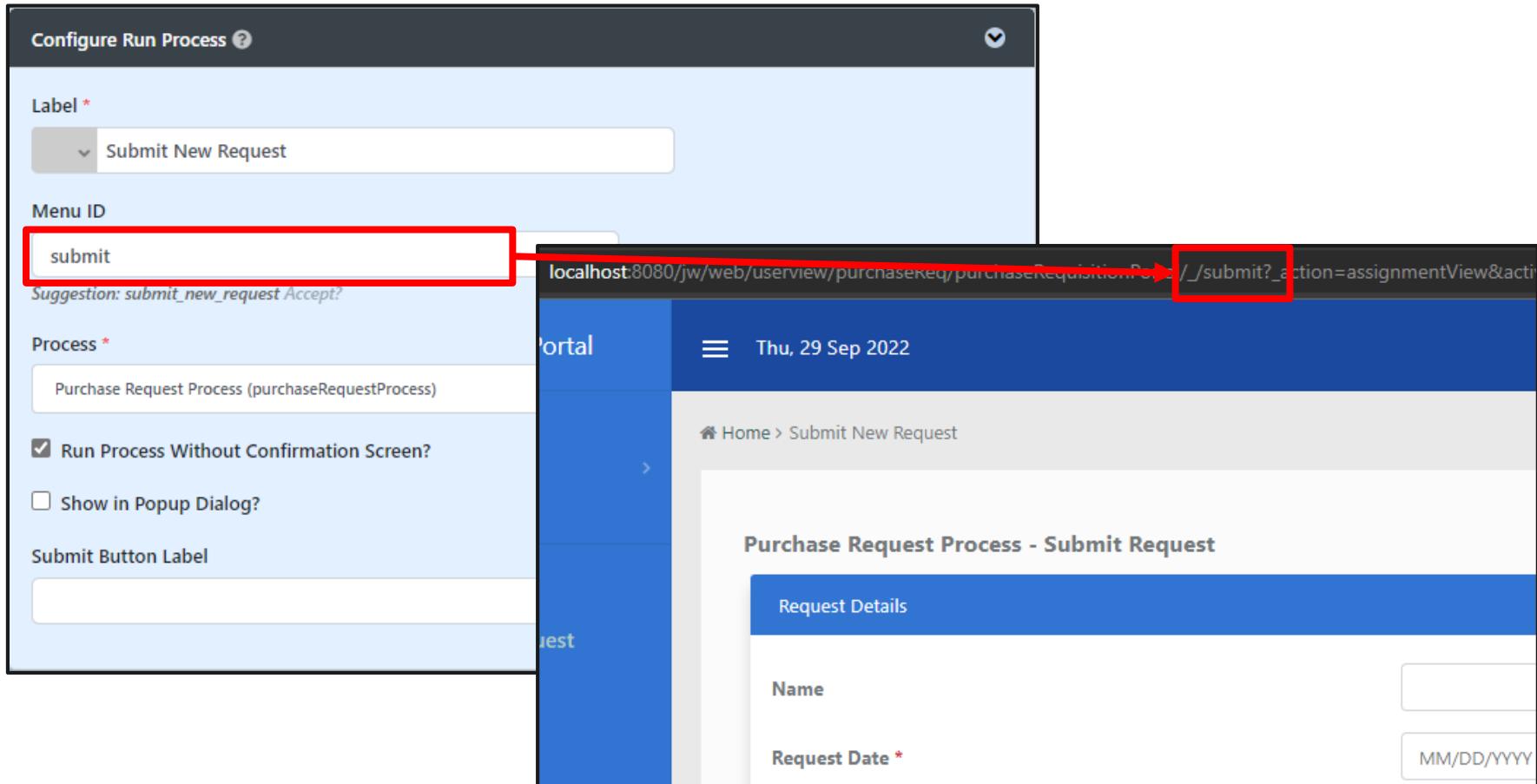
Integrate Run Process Into UI

- Set the appropriate **label**.
- Select **Purchase Request Process** in **Process**.



Menu ID for UI Menu

- Assign a **Menu ID** to identify a menu.
- **Recommended** for easy access and identification in APM.



The screenshot illustrates the configuration of a UI menu item and its resulting presentation.

Configure Run Process Dialog:

- Label ***: Submit New Request
- Menu ID**: submit (highlighted with a red box)
- Suggestion: submit_new_request Accept?**
- Process ***: Purchase Request Process (purchaseRequestProcess)
- Run Process Without Confirmation Screen?
- Show in Popup Dialog?
- Submit Button Label**: (empty input field)

Resulting UI:

- The URL in the browser's address bar is `localhost:8080/jw/web/userview/purchaseReq/purchaseRequisitionProc:/_submit?_action=assignmentView&acti`. A red box highlights the `_submit` part of the URL.
- The UI shows a blue sidebar with a navigation menu. A red box highlights the "Submit" item under the "Purchase Request" section.
- The main content area displays the "Purchase Request Process - Submit Request" form. It includes fields for "Request Details", "Name", and "Request Date *".

Menu ID for UI Menu Alternative

- You can use the suggested ID for consistency.

The image shows two instances of the "Configure Run Process" dialog side-by-side, illustrating the use of suggested menu IDs.

Left Dialog (Suggestion):

- Label:** Submit New Request
- Menu ID:** (Field contains "Suggestion: submit_new_request Accept?")
- Process:** Purchase Request Process (purchaseRequestProcess)
- Run Process Without Confirmation Screen?**
- Show in Popup Dialog?**
- Submit Button Label:** (Empty field)

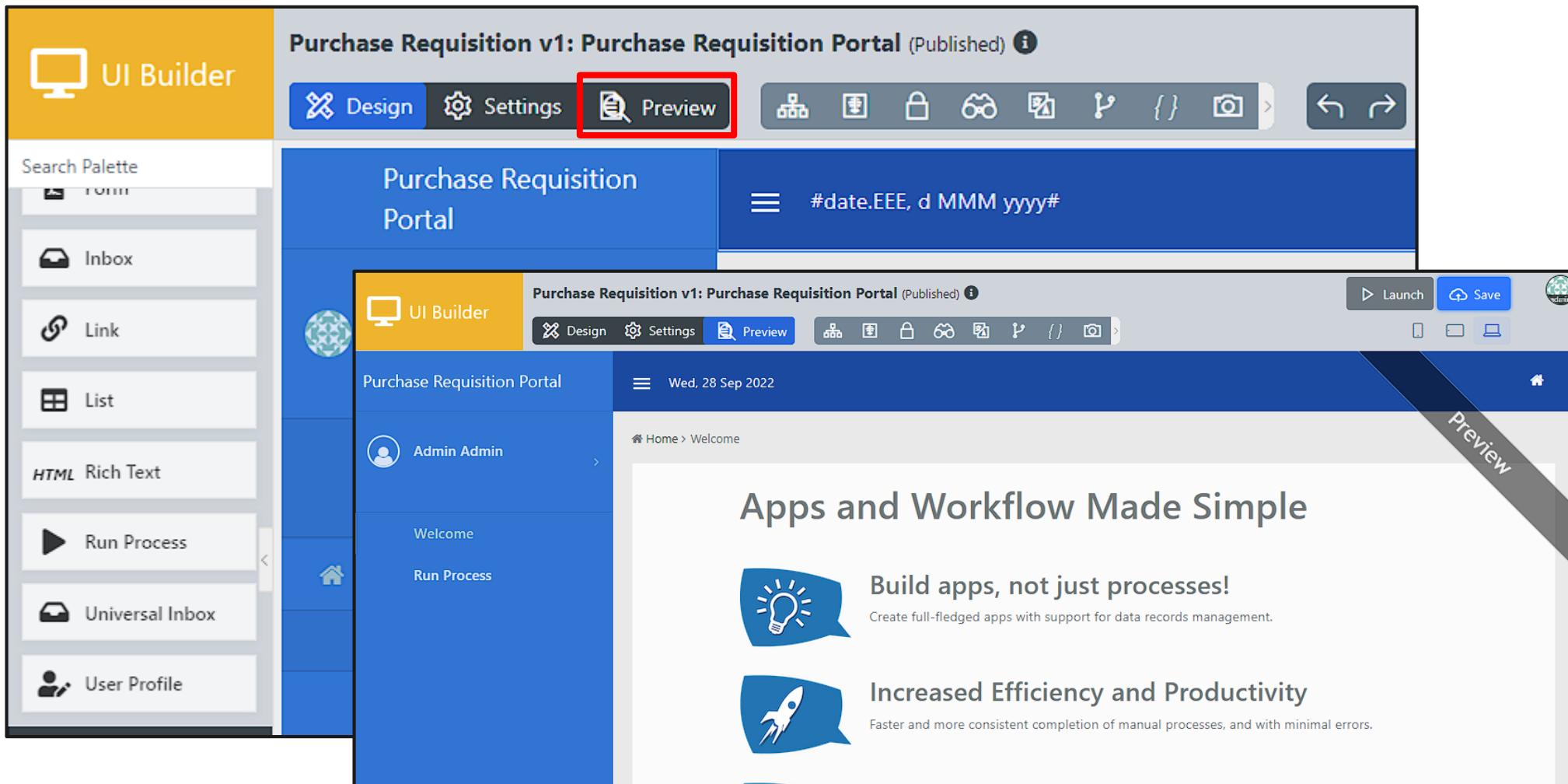
Right Dialog (Accepted Suggestion):

- Label:** Submit New Request
- Menu ID:** submit_new_request (Field is highlighted with a red border)
- Process:** Purchase Request Process (purchaseRequestProcess)
- Run Process Without Confirmation Screen?**
- Show in Popup Dialog?**
- Submit Button Label:** (Empty field)

Add Inbox Into UI

- Add **Inbox** into **Purchase Requisition** category.
- Configure it to show **All Assignments**.

Preview UI



The screenshot illustrates the Joget UI Builder interface, specifically the Preview mode. On the left, a vertical sidebar lists various components: UI Builder, Search Palette, Form, Inbox, Link, List, HTML Rich Text, Run Process, Universal Inbox, and User Profile. The main workspace shows a published application titled "Purchase Requisition v1: Purchase Requisition Portal (Published)". The top navigation bar includes tabs for Design, Settings, and Preview, with the Preview tab highlighted by a red box. Below the navigation is a toolbar with icons for file operations like Open, Save, and Print. The application's header displays the title and a date placeholder "#date.EEE, d MMM yyyy#". The left sidebar of the preview view shows a navigation menu with "Purchase Requisition Portal", "Admin Admin", "Welcome", and "Run Process". The main content area features a large heading "Apps and Workflow Made Simple" and two promotional sections: "Build apps, not just processes!" with a lightbulb icon and "Increased Efficiency and Productivity" with a rocket ship icon. A diagonal "Preview" watermark is visible across the preview area.

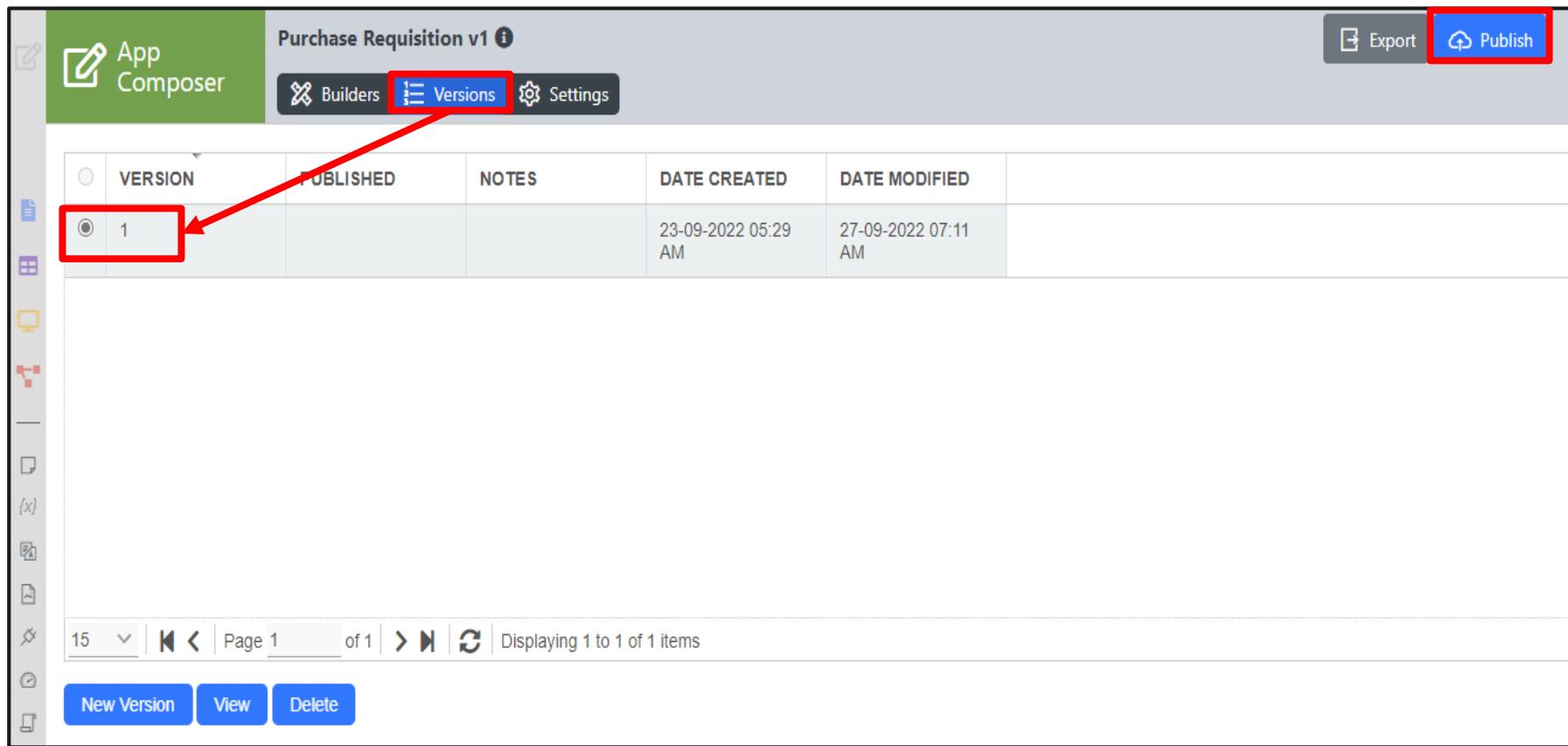
Publish the App

- With the UI created, it is now ready for prime time.
- End users can now access them through this interface when the App is made published.

Note: Only **ONE** App version can be made published at any point of time.

Publish the App

- Click on the **Versions** tab, select the version to publish then click **Publish**.



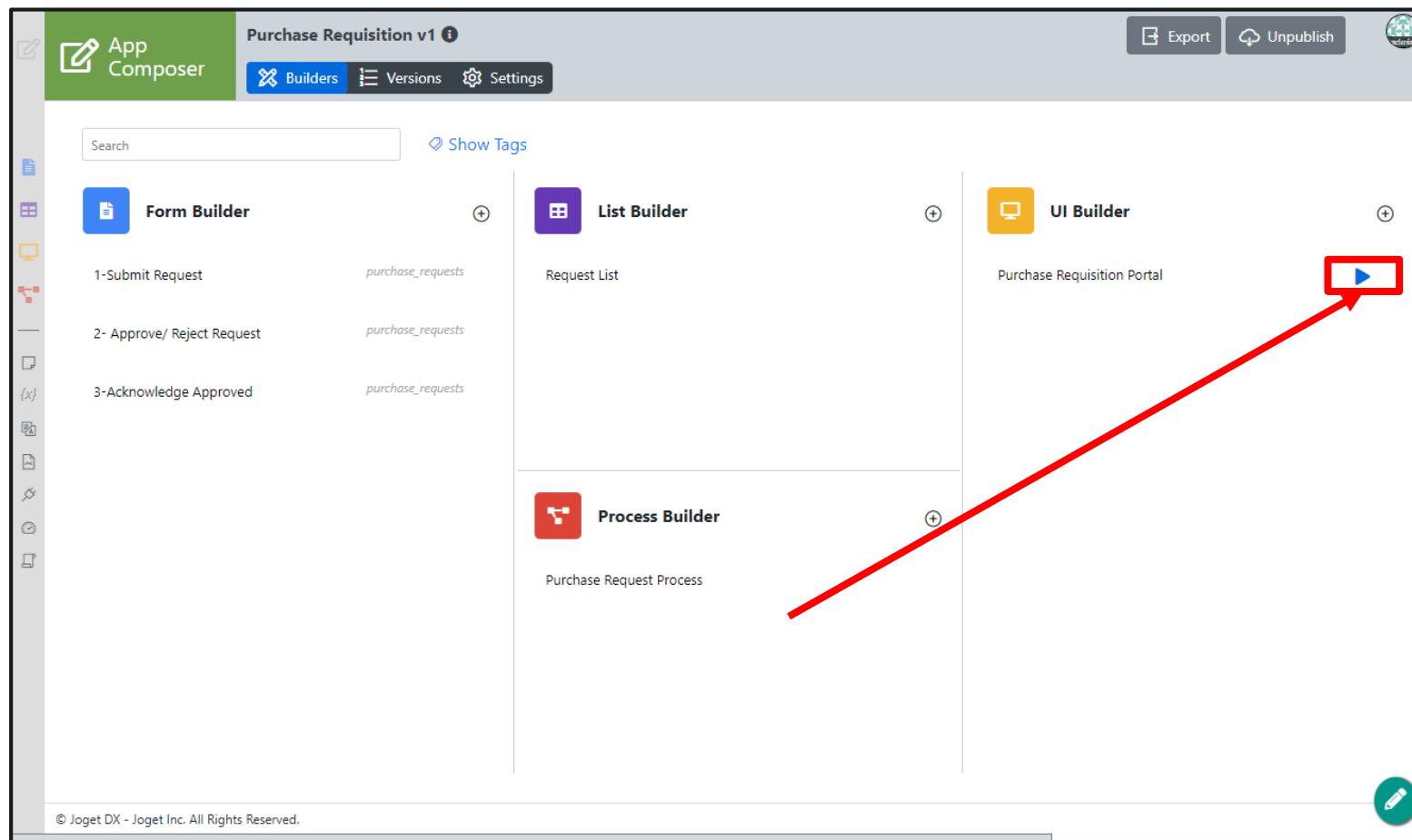
The screenshot shows the App Composer interface for a "Purchase Requisition v1" app. The "Versions" tab is selected. A red box highlights the "VERSION" column of the first row, which contains the value "1". A red arrow points from the "Publish" button at the top right towards this highlighted cell. The "Publish" button is located in the top right corner of the header bar.

VERSION	PUBLISHED	NOTES	DATE CREATED	DATE MODIFIED
1			23-09-2022 05:29 AM	27-09-2022 07:11 AM

At the bottom of the screen, there are buttons for "New Version", "View", and "Delete".

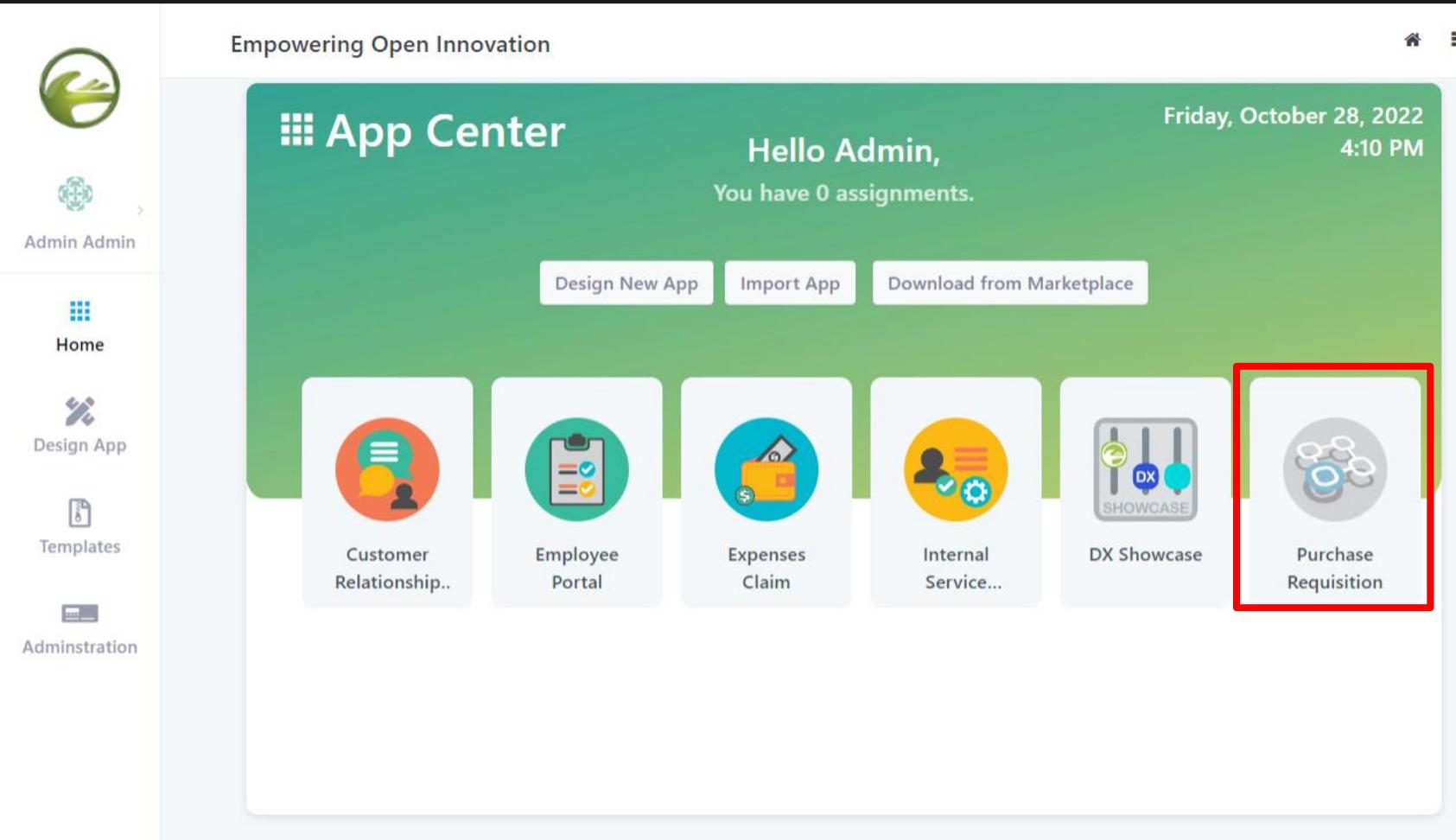
Launching the Published App

- Click on  under UI pane.



Launching the Published App

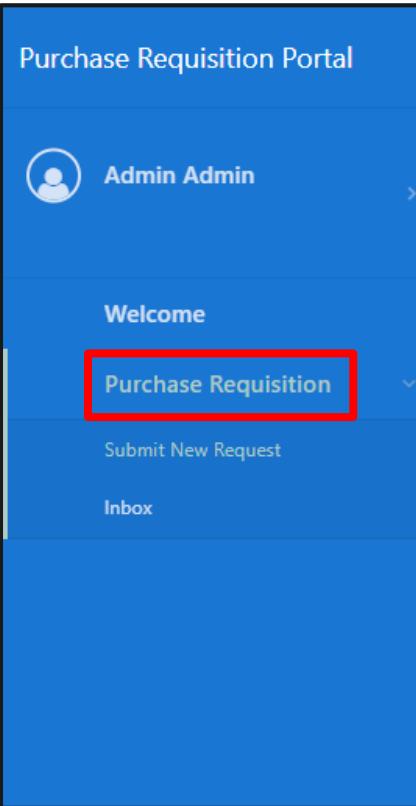
- One can also access it through the **App Center** itself.



The screenshot shows the Joget App Center interface. On the left is a sidebar with user information (Admin Admin) and navigation links: Home, Design App, Templates, and Administration. The main area has a header "Empowering Open Innovation" and a date/time "Friday, October 28, 2022 4:10 PM". It features a "Hello Admin," message and a count of "0 assignments". There are three buttons: "Design New App", "Import App", and "Download from Marketplace". Below these are six app cards: "Customer Relationship.." (orange circle icon), "Employee Portal" (green clipboard icon), "Expenses Claim" (blue wallet icon), "Internal Service..." (yellow circle icon), "DX Showcase" (gray square icon with gear and chart), and "Purchase Requisition" (gray circle icon with coins). The "Purchase Requisition" card is highlighted with a red border.

Exercise: Run Through the Process

- With the UI created, run through the entire **Purchase Request Process** again by using ONLY the UI.



The screenshot shows the 'Purchase Requisition Portal' interface. On the left, there's a sidebar with a user profile for 'Admin Admin' and a 'Welcome' message. Below that, a menu item 'Purchase Requisition' is highlighted with a red box. Other menu items include 'Submit New Request' and 'Inbox'. The main content area shows the 'Purchase Request Process - Submit Request' form. It has a 'Request Details' section with fields for 'Name' (empty), 'Request Date *' (MM/DD/YYYY), 'Category' (Stationery), and an 'Items' section with two rows for 'Name' and 'Quantity' (both 'Click to edit').

Exercise: Run Through the Process

- Submit the form (which is part of the Process's activity flow) and continue on with the next assignment by going to **Inbox**.

Purchase Request Process - Submit Request

Request Details

Name	<input type="text"/>
Request Date *	<input type="text"/> MM/DD/YYYY
Category	Stationery

Items

Name	Quantity
Click to edit	Click to edit
Add Row	

Remarks

Save As Draft **Complete**

Exercise: Integrate DataList Into UI

- Add a **List** element into the UI to incorporate the Datalist that was created earlier.
- Name it as “**List All**”.

Exercise: Add CRUD Functionality

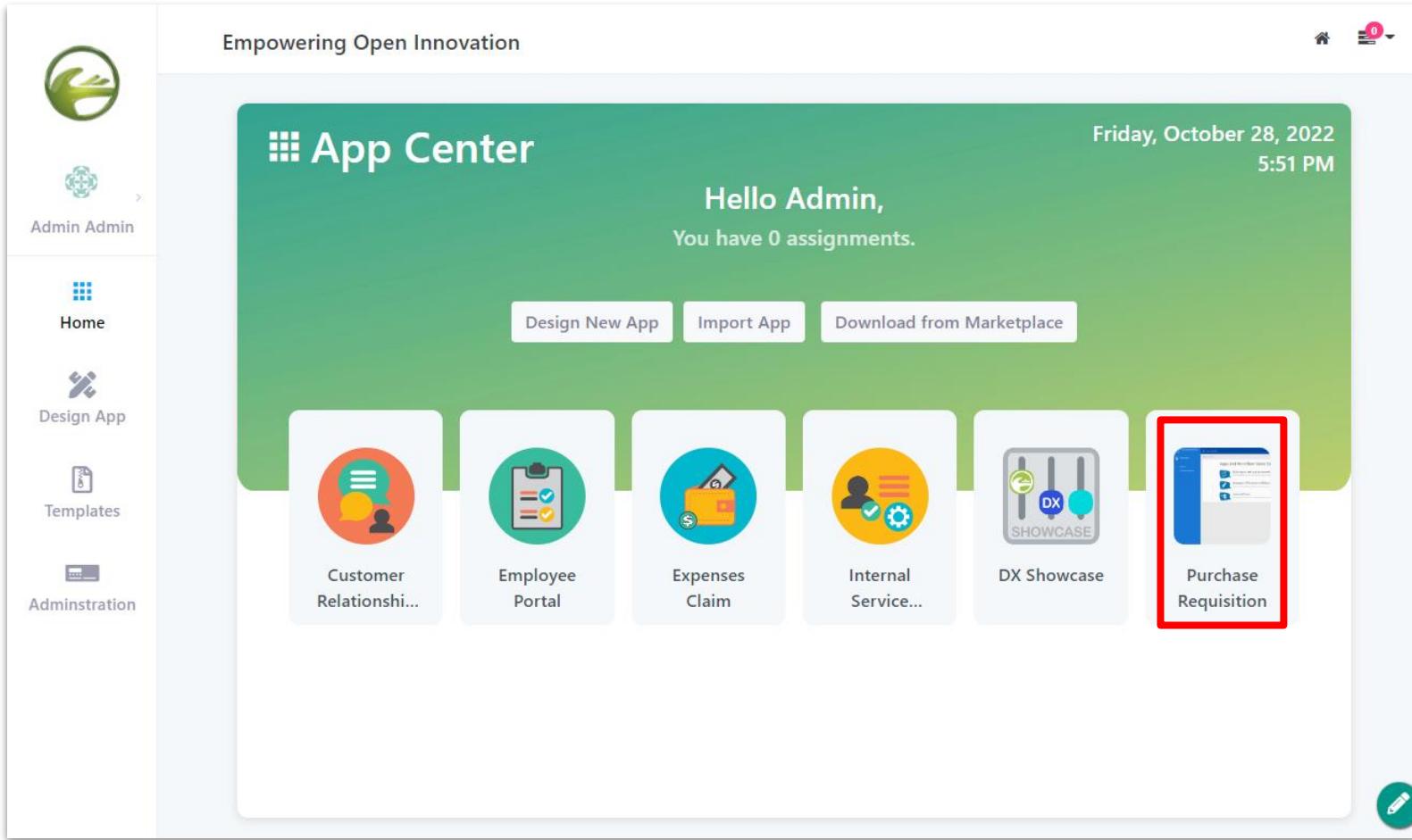
- Add a “CRUD” element into the UI.
- Configure the CRUD to use the list created earlier and point to the appropriate form for editing.

Exercise: Change UI Theme

- At UI Builder's settings, change the UI Theme to a new look and feel.
- Remember to click “OK” after selecting a new theme.
- Preview.

Exercise: App Thumbnail

Notice that other apps have each its own app thumbnail in the app center? Try to personalize yours too.

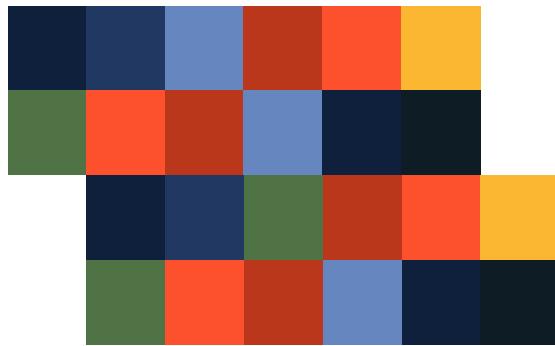


The screenshot shows the Joget App Center interface. On the left is a vertical sidebar with icons for Admin, Home, Design App, Templates, and Administration. The main area has a green header with the text "Empowering Open Innovation". The top right shows the date "Friday, October 28, 2022" and time "5:51 PM". The title "App Center" is displayed above a greeting "Hello Admin," and a message "You have 0 assignments.". Below this are three buttons: "Design New App", "Import App", and "Download from Marketplace". A row of six app thumbnails is shown, each with a small preview image and a label: "Customer Relationship...", "Employee Portal", "Expenses Claim", "Internal Service...", "DX Showcase", and "Purchase Requisition". The "Purchase Requisition" thumbnail is highlighted with a red border. The bottom right corner of the main area features a teal circular icon with a white pencil symbol.

Chapter Review

We have learnt to:

1. Create UI.
2. Use UI as application Front-end interface.
3. Integrate Datalist, Run Process, Inbox into UI.



Chapter 3

Introduction to

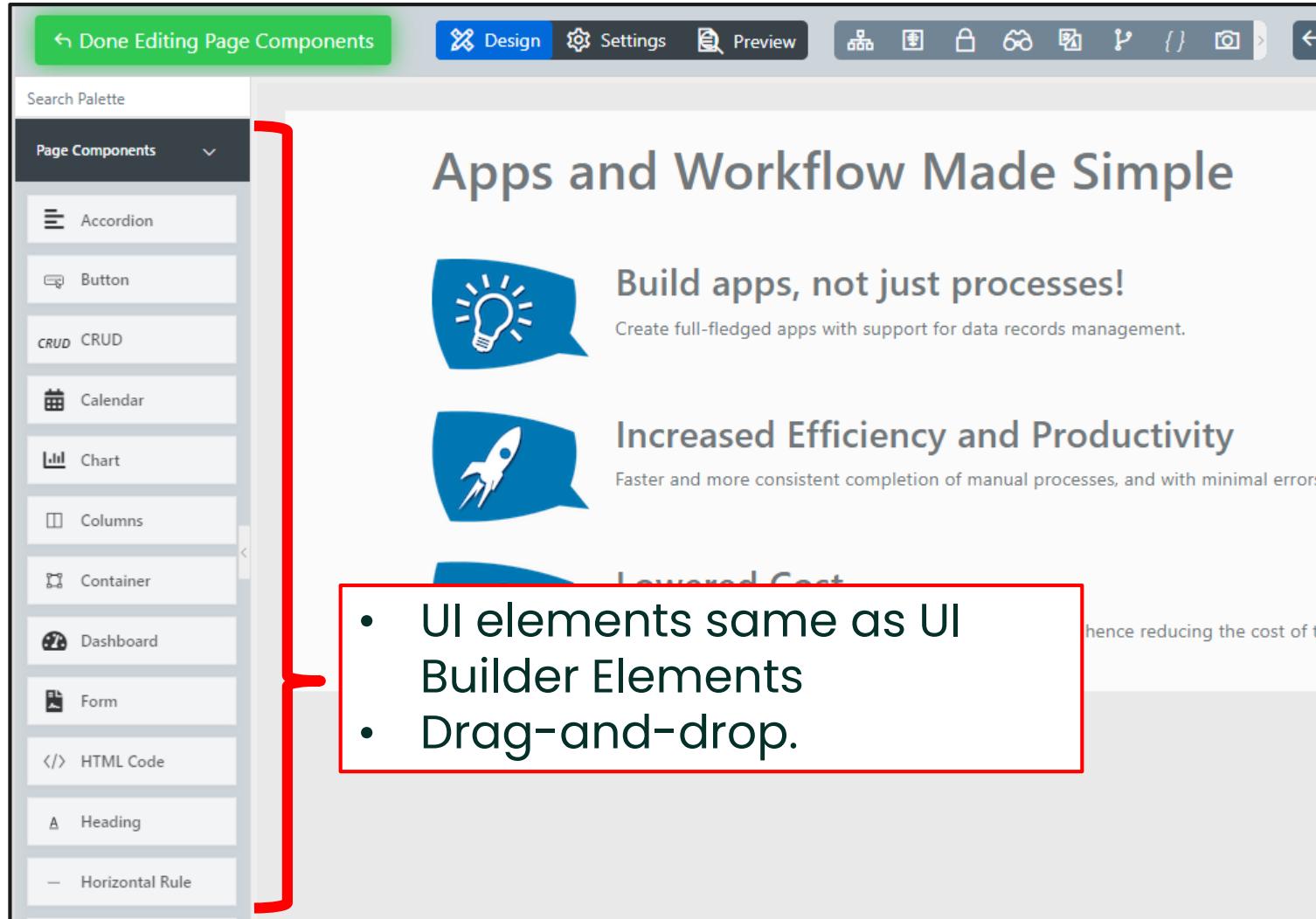
Page

Component

Page Components

- New feature in Joget DX8
- **Page Components** allow users to configure the UI of the app's page with ease.
- Reference:
<https://dev.joget.org/community/display/DX8/Page+Components>

Page Component



The screenshot shows the Joget Page Components editor interface. On the left is a sidebar titled "Page Components" with a dropdown menu. The sidebar contains the following items:

- Accordion
- Button
- CRUD
- Calendar
- Chart
- Columns
- Container
- Dashboard
- Form
- HTML Code
- Heading
- Horizontal Rule

A red bracket on the right side of the sidebar groups the "Accordion", "Button", "CRUD", "Calendar", "Chart", "Columns", "Container", "Dashboard", "Form", "HTML Code", "Heading", and "Horizontal Rule" items.

The main content area features a title "Apps and Workflow Made Simple" and two sections: "Build apps, not just processes!" and "Increased Efficiency and Productivity". A red bracket on the right side of the main content area groups these two sections.

Build apps, not just processes!
Create full-fledged apps with support for data records management.

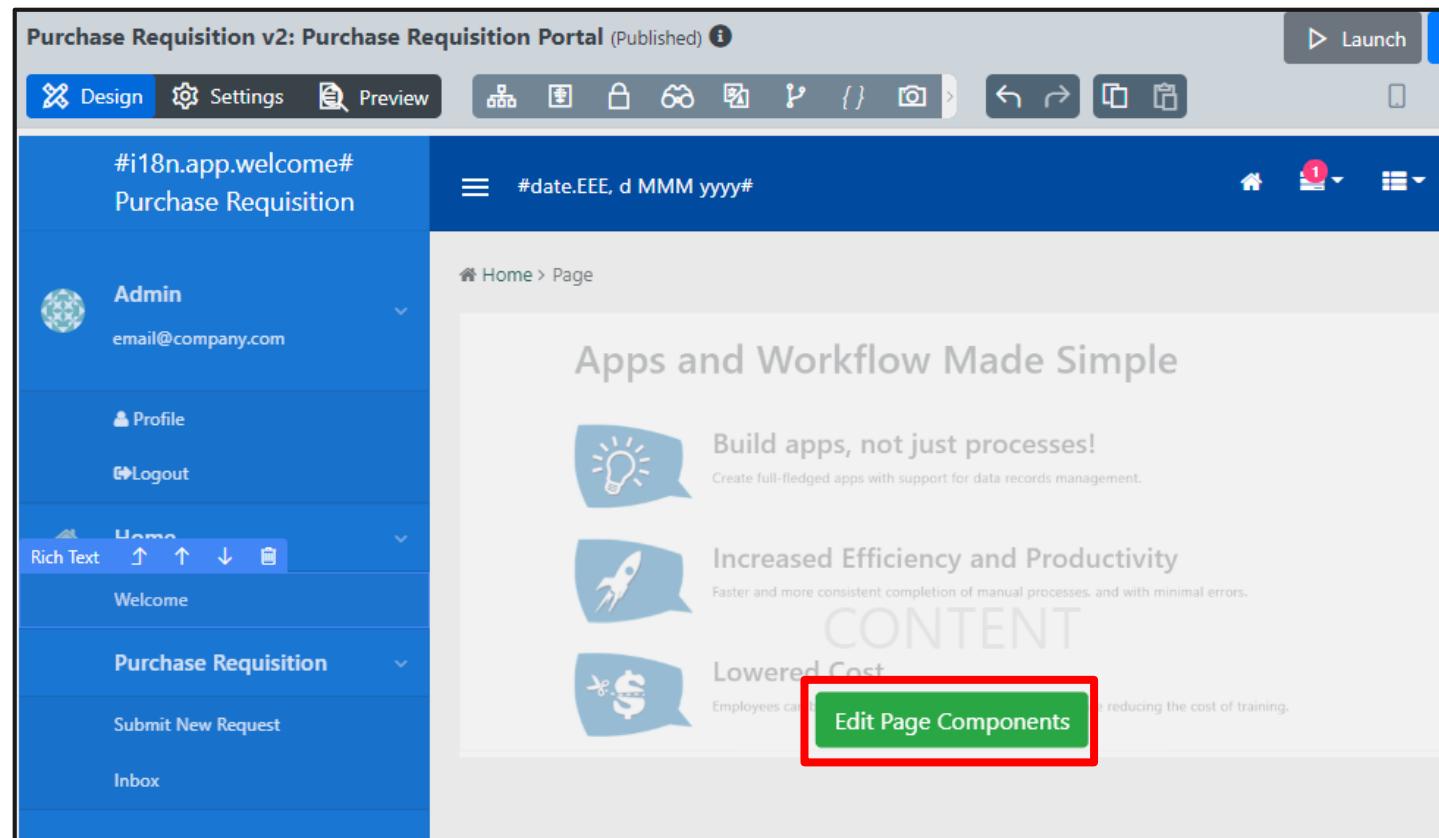
Increased Efficiency and Productivity
Faster and more consistent completion of manual processes, and with minimal errors

Lowered Cost
hence reducing the cost of t

- UI elements same as UI Builder Elements
- Drag-and-drop.

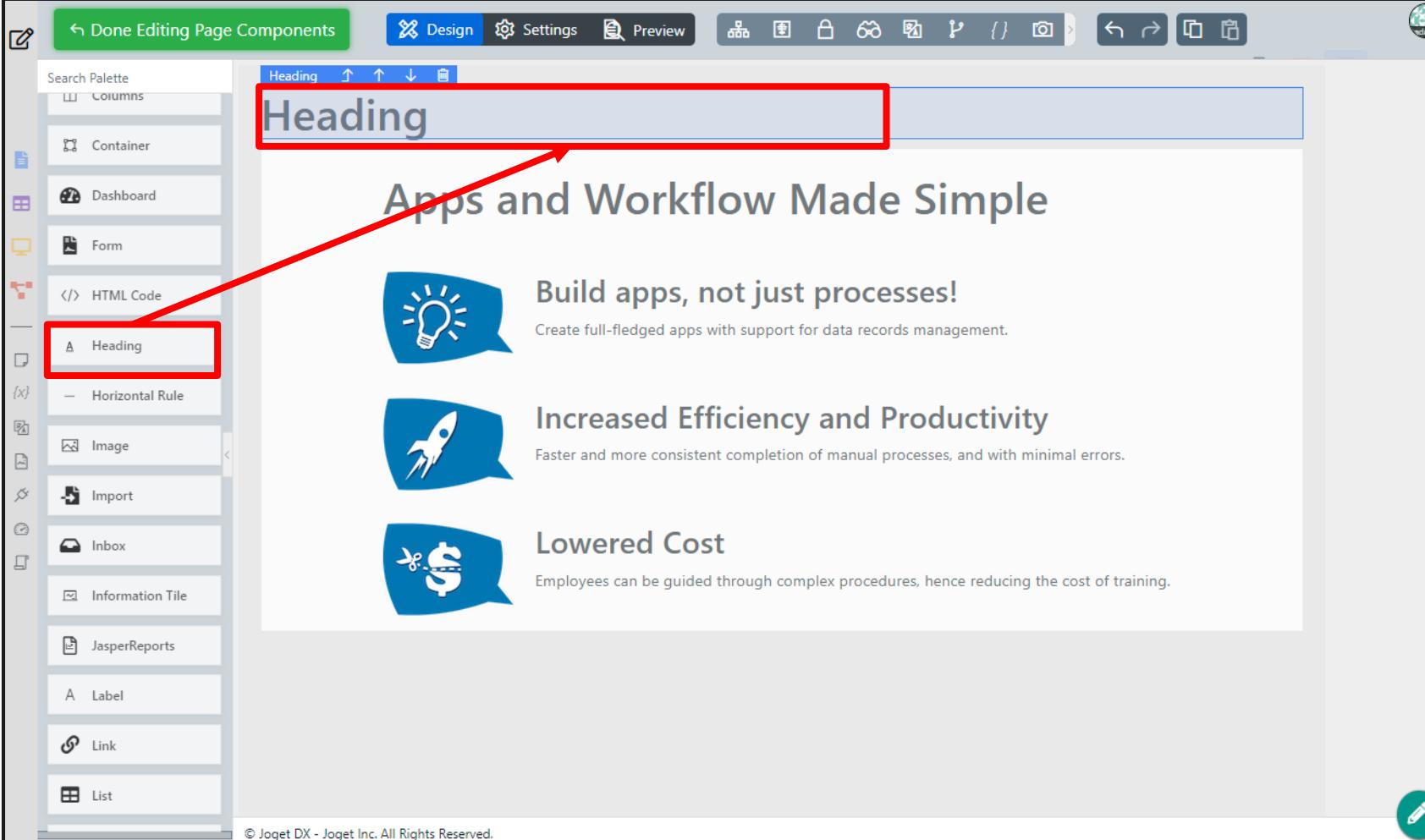
Use Page Component In UI

- Click on the **Edit Page Components** button



Use Page Component in UI

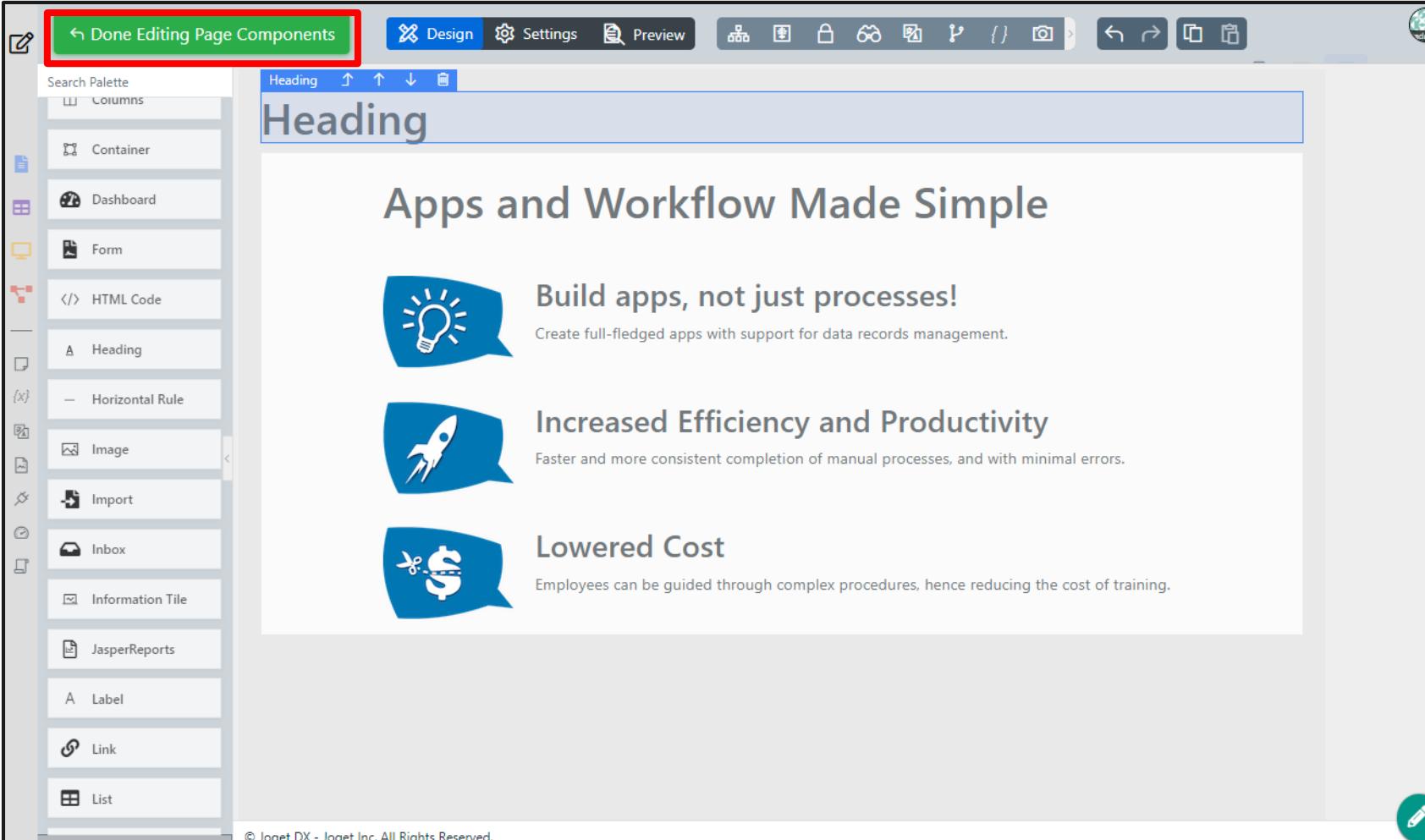
- Drag an element onto the canvas



The screenshot shows the Joget UI Designer interface. On the left, there's a sidebar with a search palette containing various components like Columns, Container, Dashboard, Form, HTML Code, Heading, Horizontal Rule, Image, Import, Inbox, Information Tile, JasperReports, Label, Link, and List. A red box highlights the 'Heading' component in the sidebar. Another red box highlights the 'Heading' component on the canvas. The main canvas area displays a page with the heading 'Heading' at the top, followed by the text 'Apps and Workflow Made Simple'. Below this, there are three sections: 'Build apps, not just processes!' with a lightbulb icon, 'Increased Efficiency and Productivity' with a rocket icon, and 'Lowered Cost' with a dollar sign icon.

Save Page Component

- Click on the **Done Editing Page Components** button.



The screenshot shows the Joget DX application interface. On the left is a vertical toolbar with various icons and labels: Search Palette, Columns, Container, Dashboard, Form, HTML Code, Heading, Horizontal Rule, Image, Import, Inbox, Information Tile, JasperReports, Label, Link, and List. The 'Image' icon is currently selected. The main workspace contains a heading 'Heading' and a section titled 'Apps and Workflow Made Simple' with three bullet points: 'Build apps, not just processes!', 'Increased Efficiency and Productivity', and 'Lowered Cost'. Each bullet point has an associated icon: a lightbulb for the first, a rocket for the second, and a dollar sign with a slash for the third. The top navigation bar includes buttons for Design, Settings, Preview, and several other tools. A red box highlights the 'Done Editing Page Components' button in the top-left corner of the workspace.

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Exercise: Try Out The Page Component

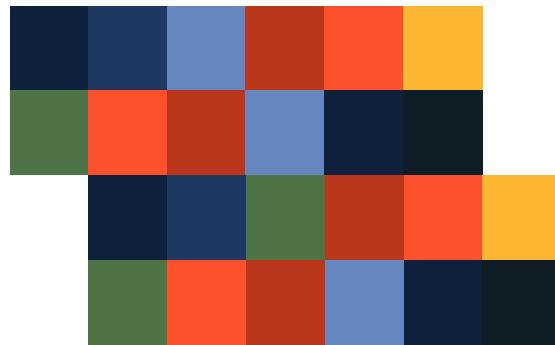
- On the **Welcome** page press the **Edit Page Component Button**
- Drag and drop any page component element onto the canvas
- ‘Play around’ with the page component and see how each components work

Materials

- Complete app is available at **8.3.jwa**

Chapter Review

- Introduce **Page Component** Feature in UI Builder
- Learn to use the **Page Component** Feature



Chapter 4

Introduction to

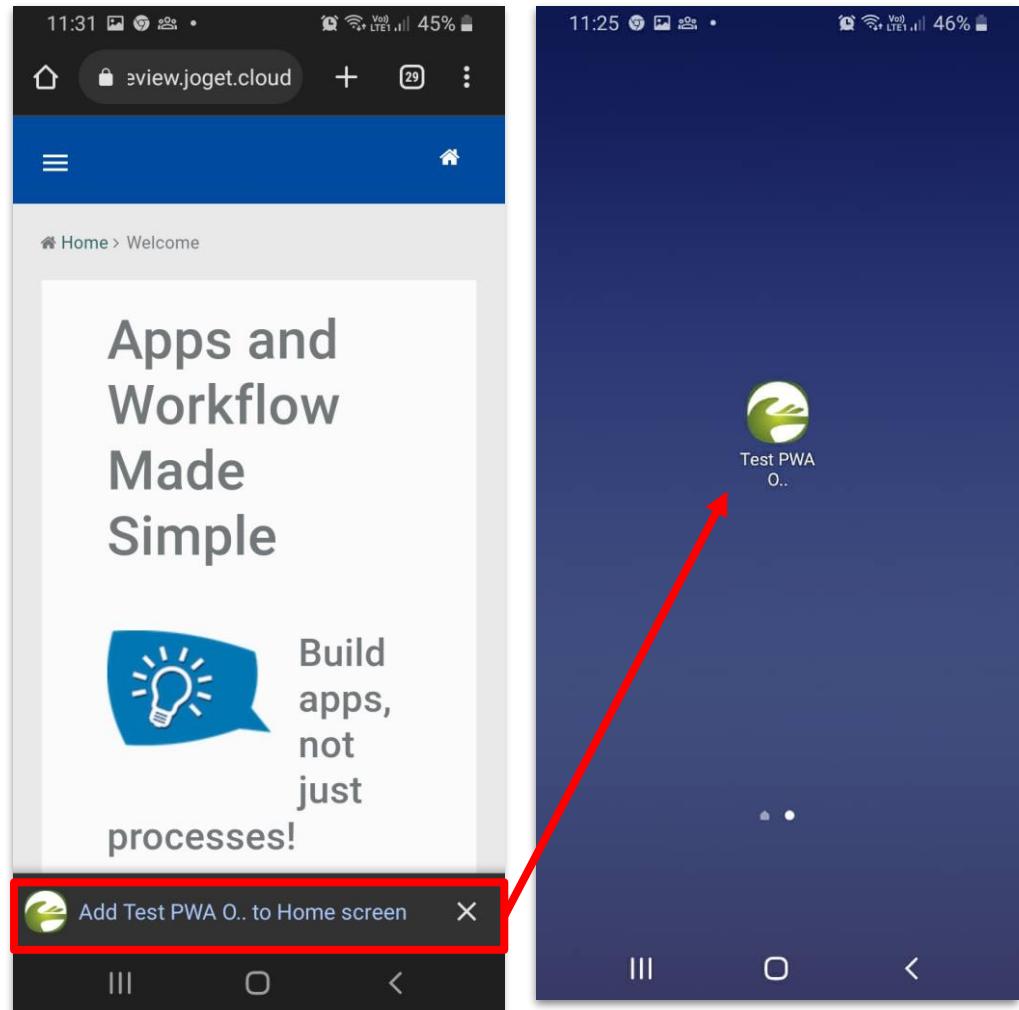
PWA

Requirements

- Your mobile phone/device with PWA-supported browsers.
- For PWA to work, it requires Joget to have a secure web connection (HTTPS).
- The theme used in the Joget App is PWA compliant
(By default: All DX 8 Themes are PWA compliant).

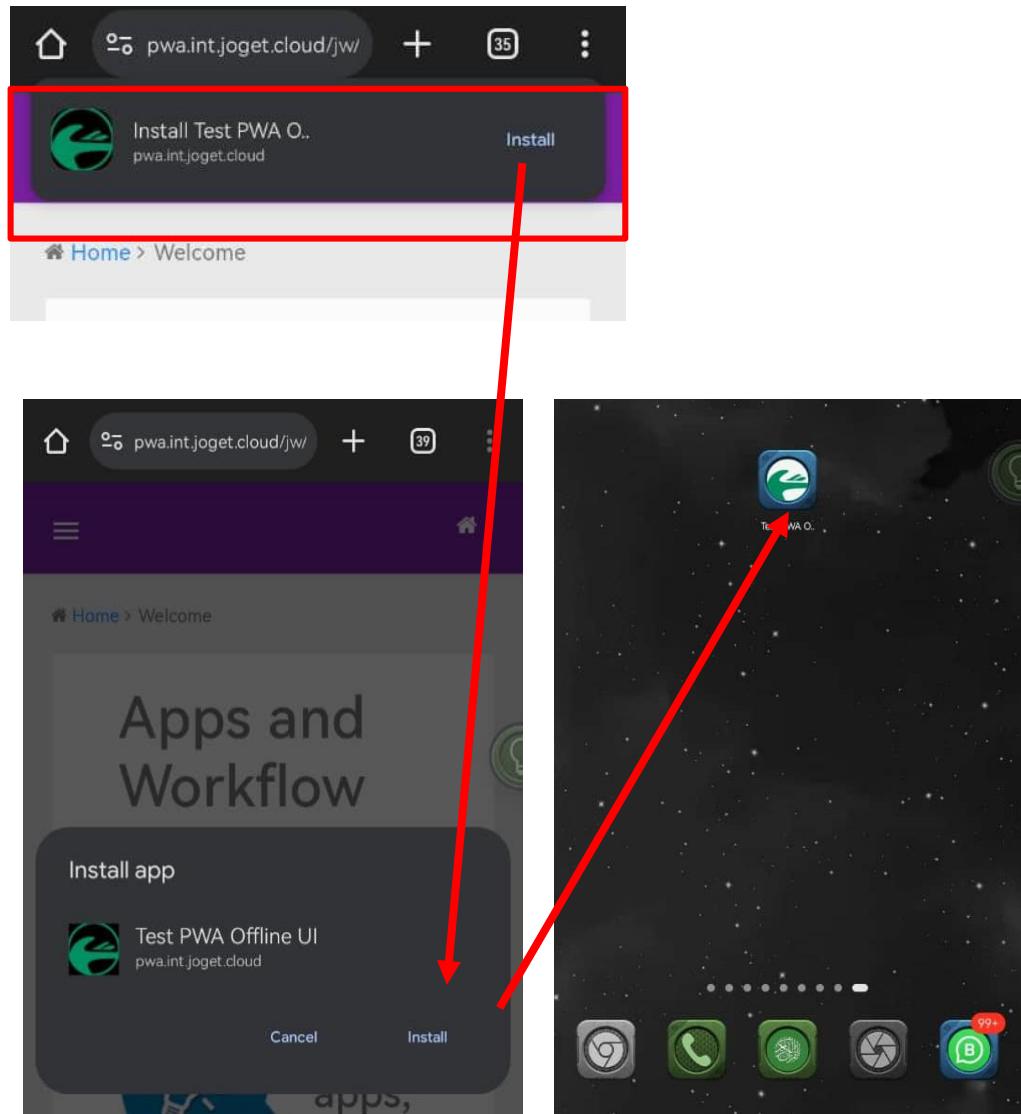
Adding to Home Screen

- Using your smartphone or browser, head over to :
<https://pwa.int.joget.cloud/l>.
- Add to Home Screen.
- An App will appear on app launcher.
- Sign in as one of the users (This is so that Joget would know who to push the notification to).



Android Installation (Chrome)

- From Google Chrome, open the url :<https://pwa.int.joget.cloud/>.
- Once you are in, Chrome will automatically prompt a notification for you to install the PWA on your device
- Tap on it and it will be installed in your device



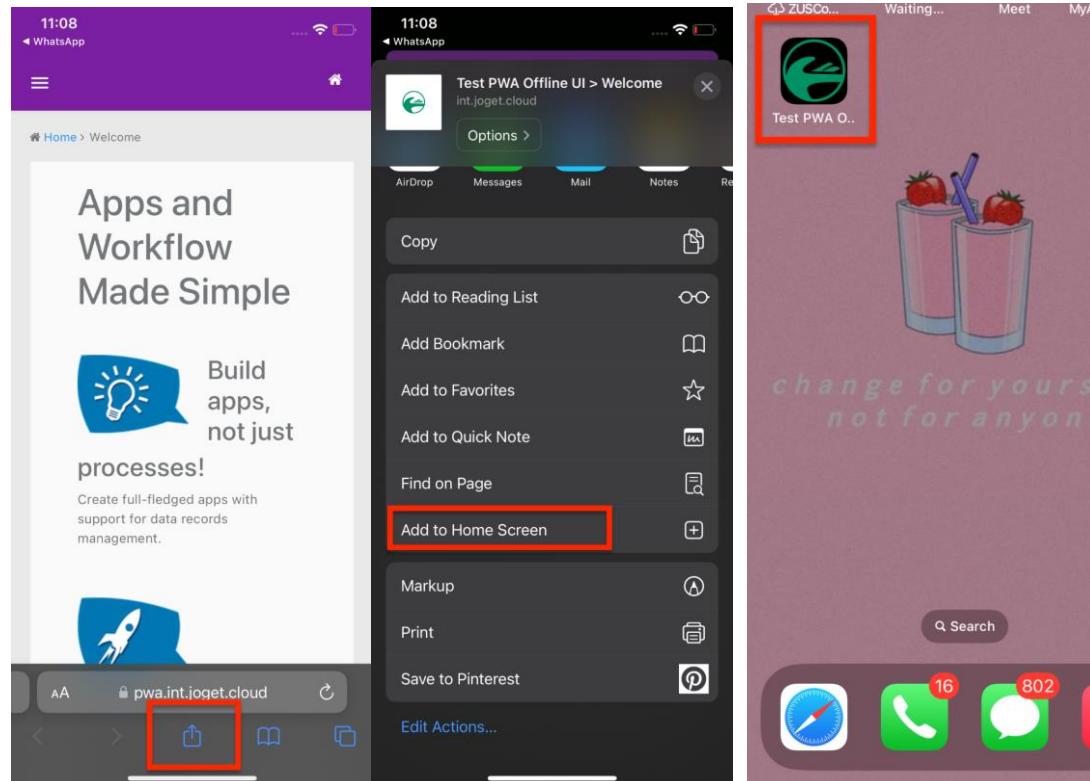
IOS Installation (Safari)

- Open this url in Safari
<https://pwa.int.joget.cloud/>

1) Press Share button

2) Click Add to Home Screen

3) And you will have it in your home Screen



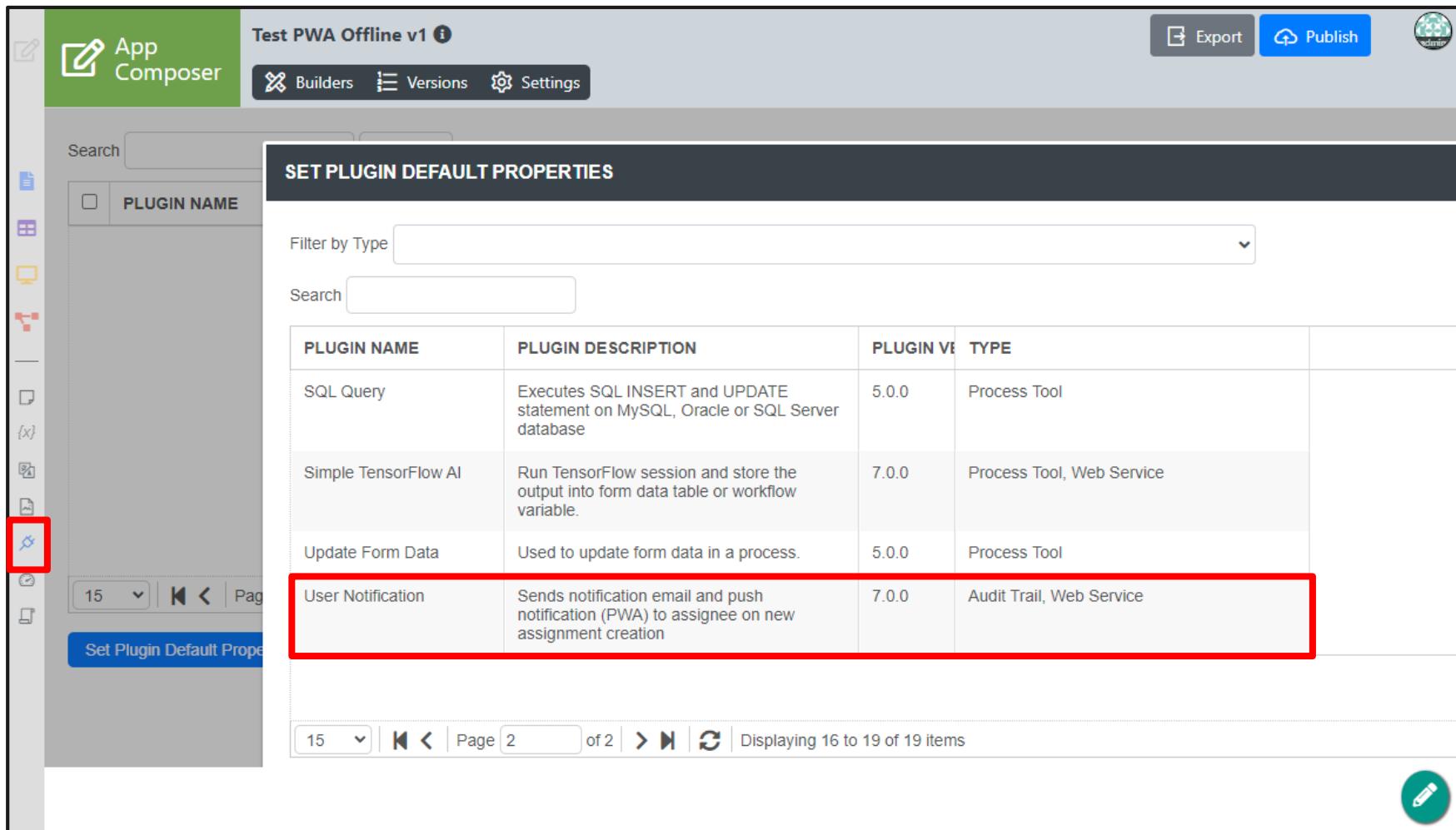
1)

2)

3)

Push Notification

- Enable Push Notification in the app itself.



The screenshot shows the Joget App Composer interface with the following details:

Top Bar: Test PWA Offline v1 ⓘ, Export, Publish, User icon.

Left Sidebar: App Composer, Search, Plugins (SQL Query, Simple TensorFlow AI, Update Form Data, User Notification), Set Plugin Default Properties (highlighted with a red box).

Central Content: SET PLUGIN DEFAULT PROPERTIES

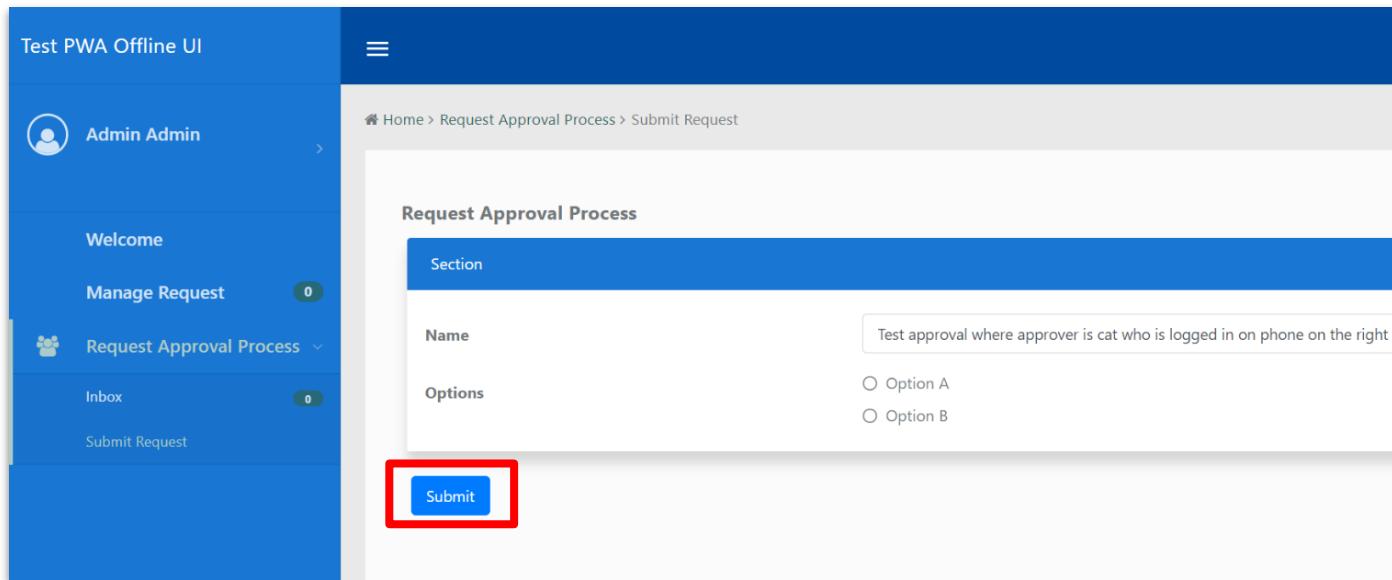
PLUGIN NAME	PLUGIN DESCRIPTION	PLUGIN VER	TYPE
SQL Query	Executes SQL INSERT and UPDATE statement on MySQL, Oracle or SQL Server database	5.0.0	Process Tool
Simple TensorFlow AI	Run TensorFlow session and store the output into form data table or workflow variable.	7.0.0	Process Tool, Web Service
Update Form Data	Used to update form data in a process.	5.0.0	Process Tool
User Notification	Sends notification email and push notification (PWA) to assignee on new assignment creation	7.0.0	Audit Trail, Web Service

Bottom Navigation: Page 2 of 2, Displaying 16 to 19 of 19 items.



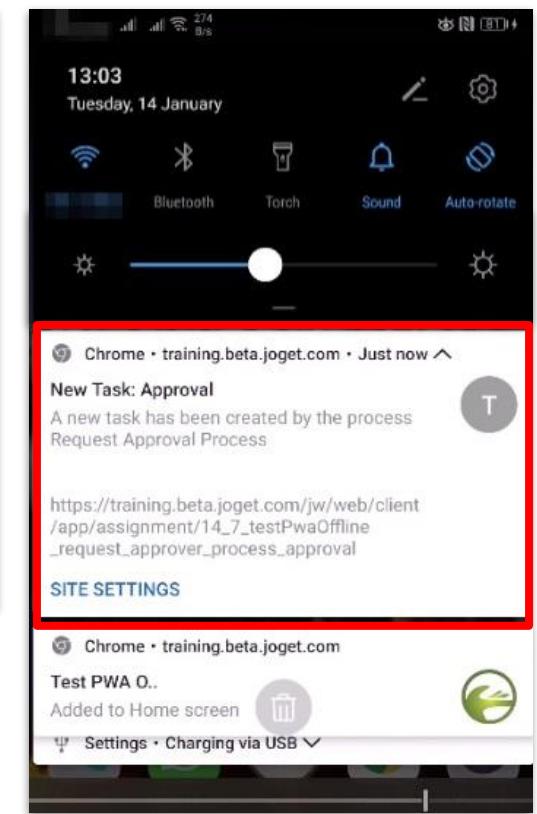
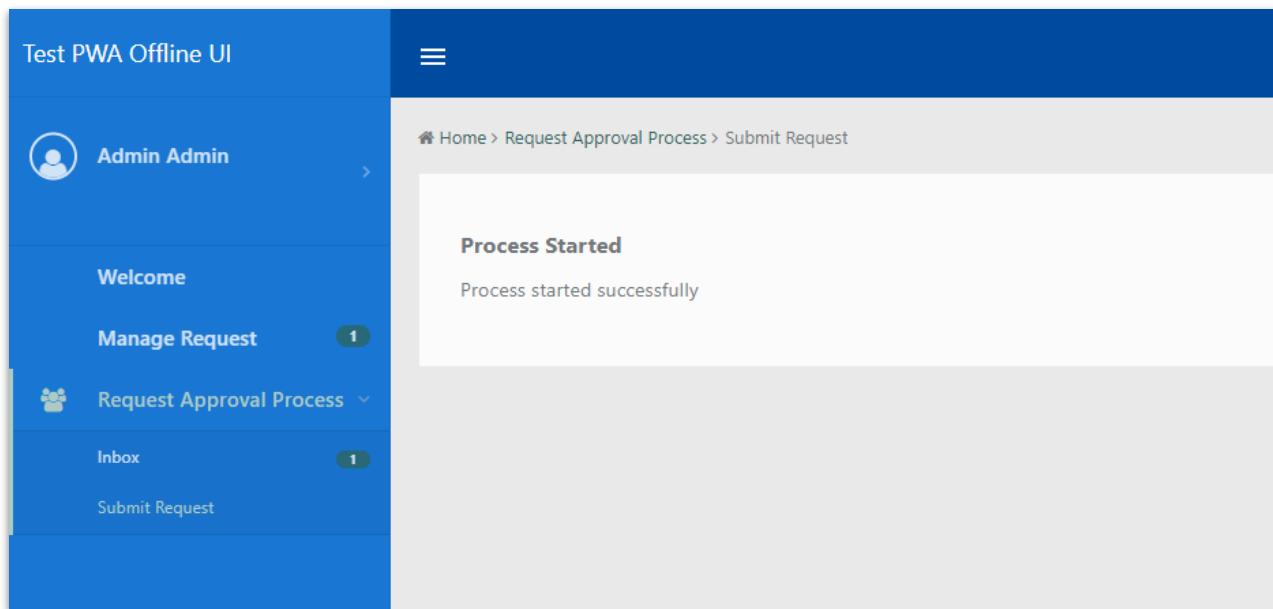
Push Notification

- Starts a new process instance and make sure that it assigns to the person who has signed in on the other device/browser.



Push Notification

- Once process is started and assignment is assigned to the person signed in on the mobile device, push notification will be sent.

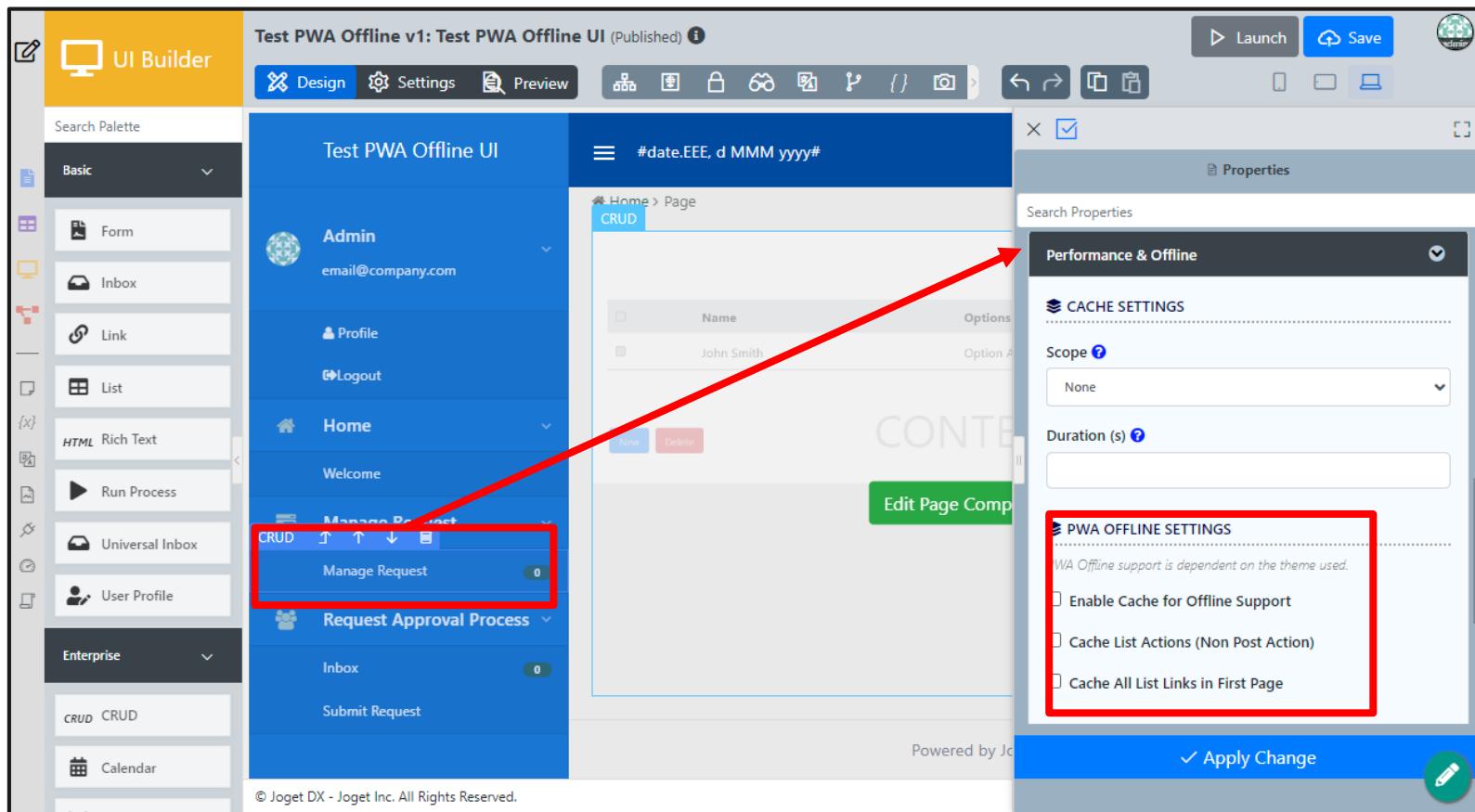


Offline Support

- Offline storage support allows uninterrupted work when device is offline.
- Compatibility depends on the theme and UI menu, down to the form and form field level.

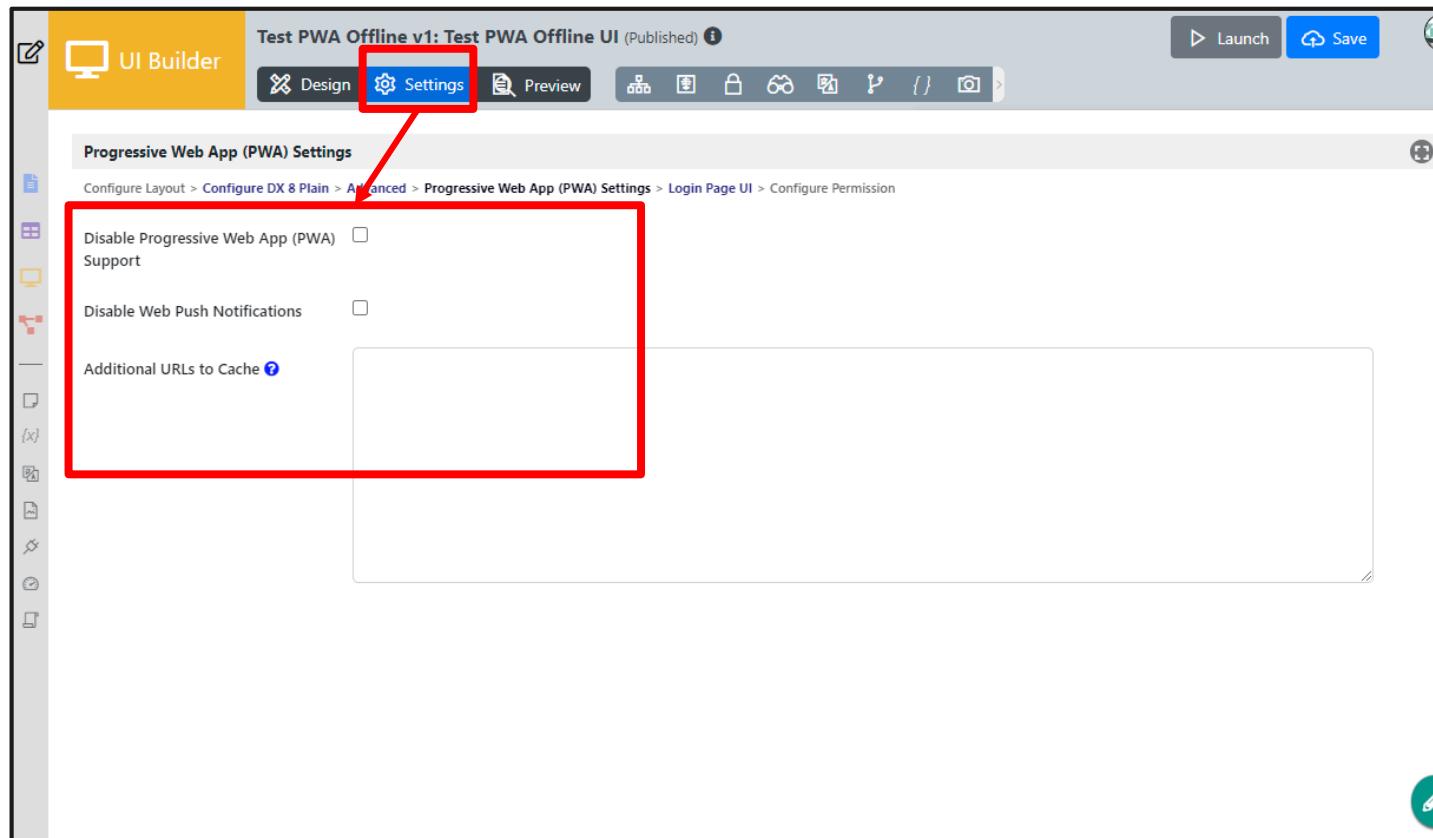
How To Enable PWA Offline Support

- In UI Builder, toggle “Enable Cache for Offline Support” in each menu element.



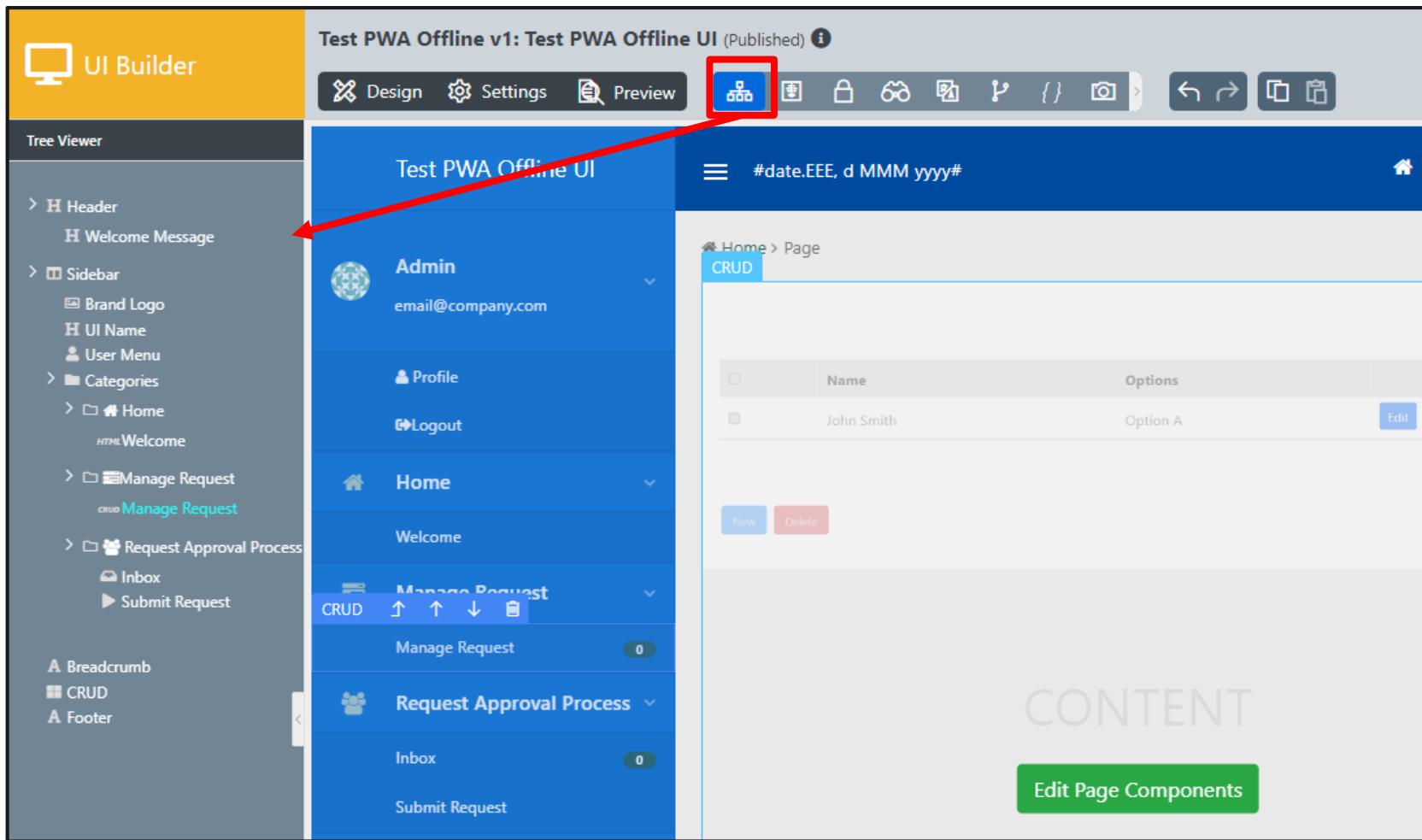
Where Are The PWA Settings?

- In UI Builder > Settings > PWA Supported themes > Progressive Web App (PWA) Settings



PWA Offline Compatibility

- Compatibility check inside UI Builder's Tree Viewer



The screenshot shows the UI Builder application interface. On the left, there is a sidebar titled "Tree Viewer" containing a tree structure of UI components:

- > H Header
- H Welcome Message
- > Sidebar
 - Brand Logo
 - UI Name
 - User Menu
- > Categories
 - Home
 - HTML Welcome
 - Manage Request
 - Manage Request
 - Request Approval Process
 - Inbox
 - Submit Request
- A Breadcrumb
- CRUD
- A Footer

The main content area displays a "Test PWA Offline UI" page. At the top, there is a toolbar with icons for Design, Settings, Preview, and others. A red arrow points from the "Preview" icon in the toolbar to the "Preview" icon in the sidebar. Another red box highlights the "Preview" icon in the toolbar.

The page content includes:

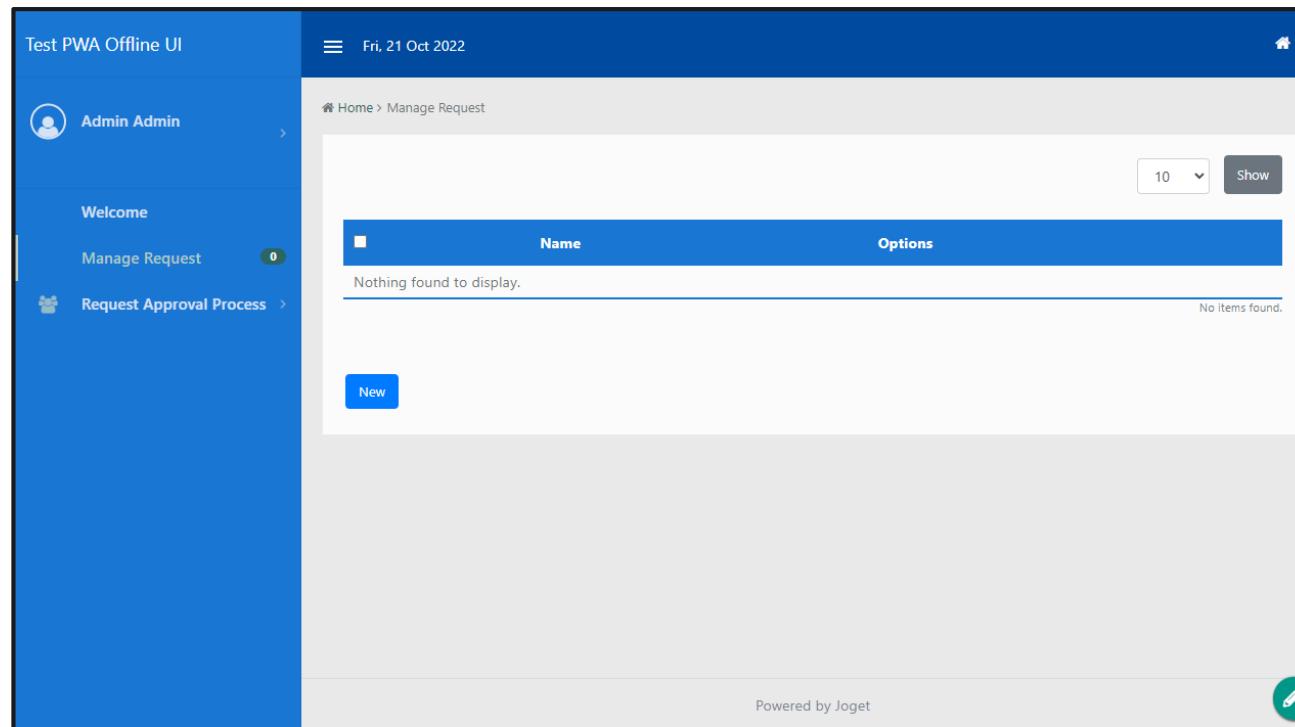
- Header: Test PWA Offline UI
- User Profile: Admin, email@company.com
- Navigation: Profile, Logout
- Home section: Home, Welcome
- Manage Request section: CRUD, Manage Request, Request Approval Process, Inbox, Submit Request
- Request Approval Process section: Inbox, Submit Request
- Footer: #date.EEE, d MMM yyyy#
- Breadcrumbs: Home > Page
- CRUD table:

Name	Options
John Smith	Option A

New Delete
- CONTENT
- Edit Page Components

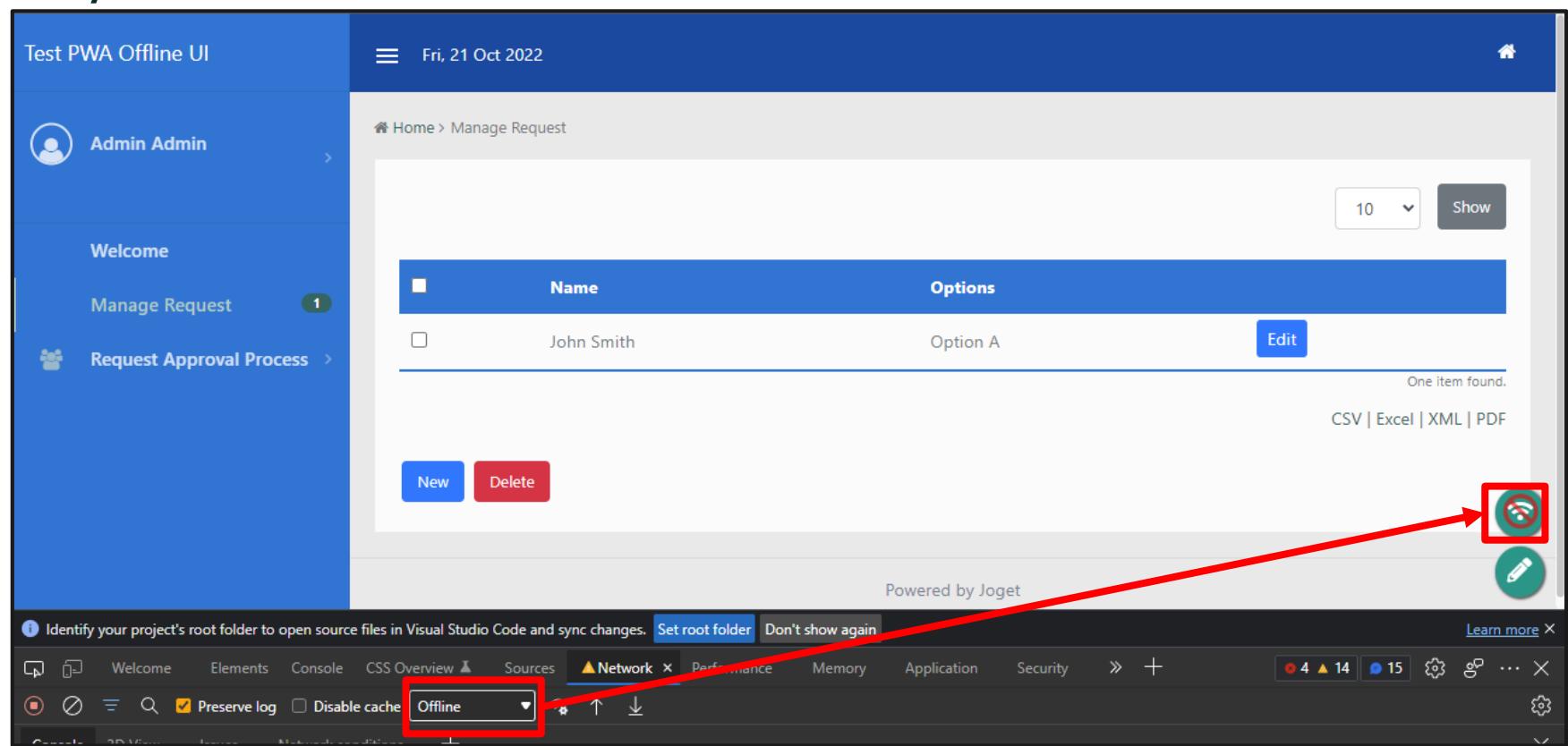
Exercise: Try Out PWA Offline Support

- On your PC, go to <https://pwa.on.joget.cloud/>
- Click on Test PWA Offline App > Manage Request
- Try saving submit a request or save data



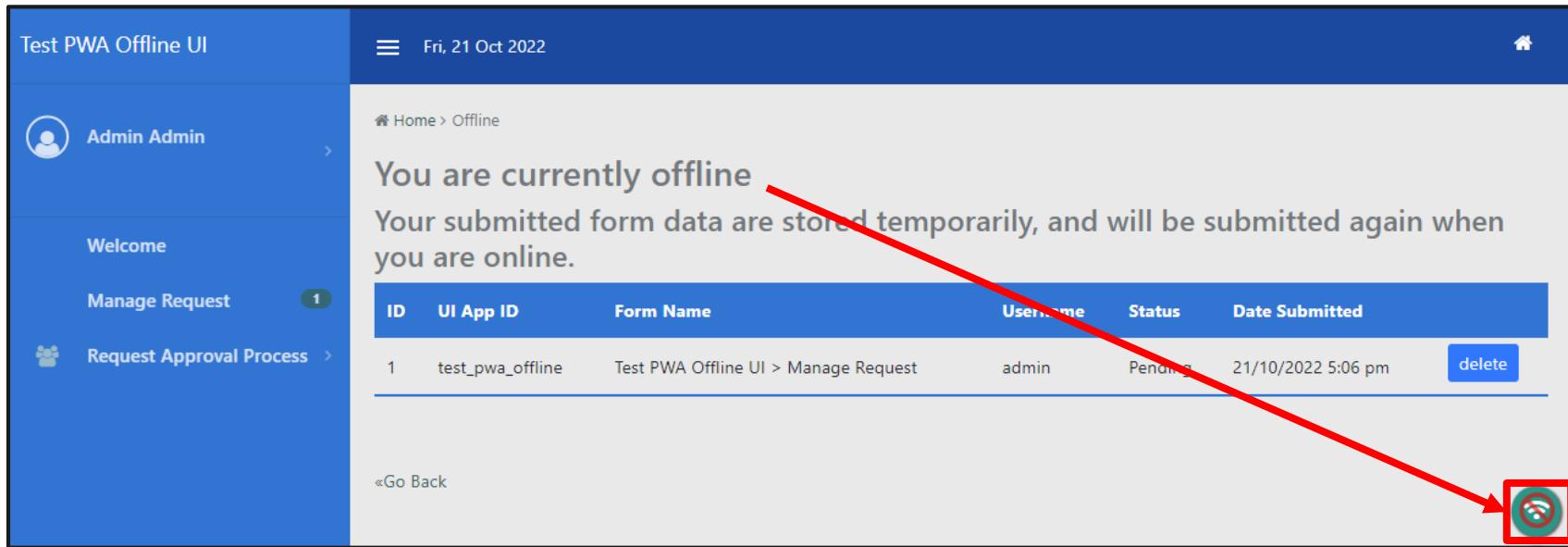
Exercise: Try Out PWA Offline Support

- Enable offline mode by making use of Developer Tools in your browser



Exercise: Try Out PWA Offline Support

- Try again - saving submit a request or save data.
- You will be presented with this screen on submission.
- You can click on the Wifi icon on the bottom right anytime to view stored offline data.



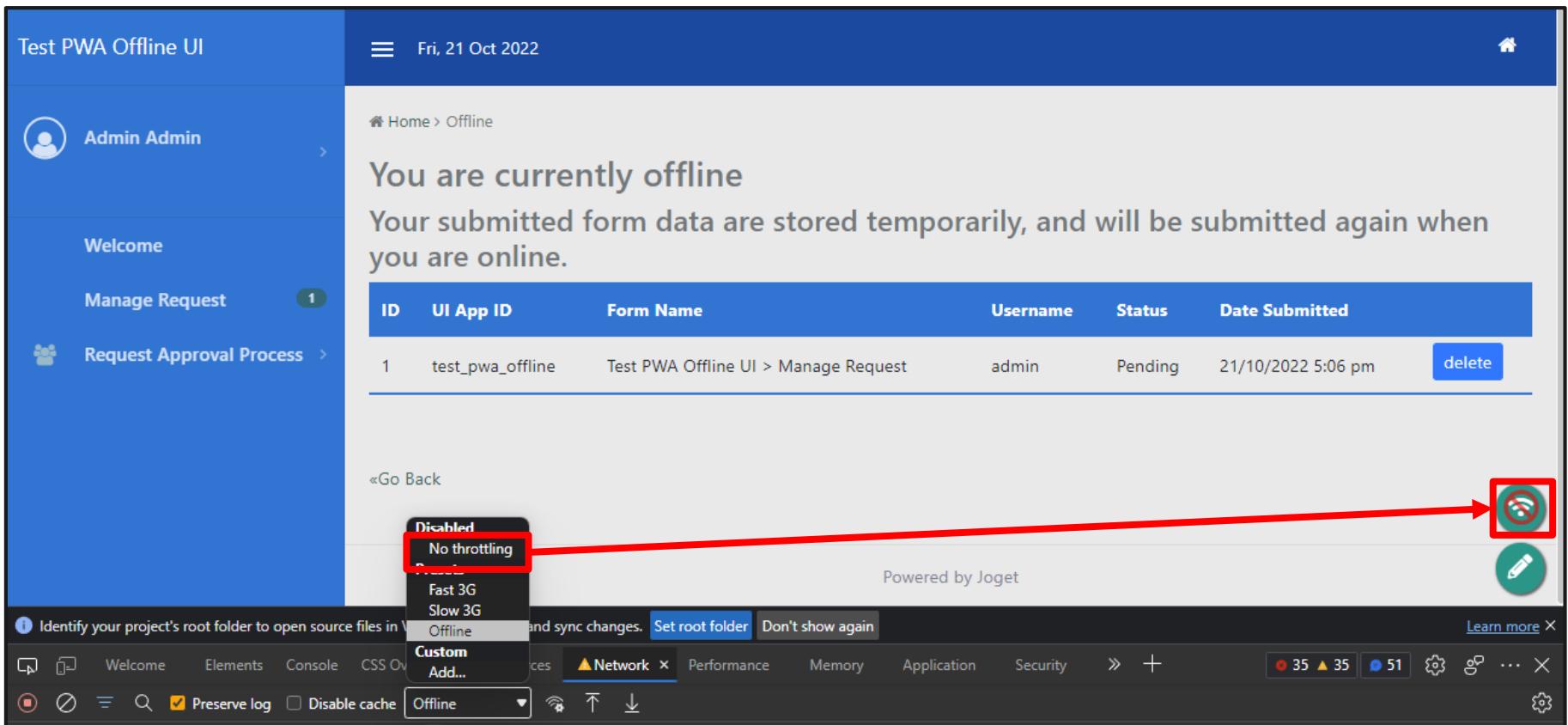
The screenshot shows a mobile application interface for "Test PWA Offline UI". The top navigation bar includes a date ("Fri, 21 Oct 2022") and a home icon. The left sidebar has a user profile ("Admin Admin") and three menu items: "Welcome", "Manage Request" (with a notification count of 1), and "Request Approval Process". The main content area displays a message: "You are currently offline. Your submitted form data are stored temporarily, and will be submitted again when you are online." Below this message is a table listing a single request:

ID	UI App ID	Form Name	Username	Status	Date Submitted
1	test_pwa_offline	Test PWA Offline UI > Manage Request	admin	Pending	21/10/2022 5:06 pm

A red arrow points from the text "You are currently offline" to a small circular icon with a crossed-out signal symbol in the bottom right corner of the screen. Another red arrow points from the bottom right corner of the screen to the same icon, which is highlighted with a red square.

Exercise: Try out PWA Offline support

- Get back online.
- Joget will now attempt to sync all the data saved to server online.



The screenshot shows the Joget PWA Offline UI interface. On the left, there's a sidebar with user information (Admin Admin) and navigation links for Welcome, Manage Request (with 1 notification), and Request Approval Process. The main content area displays a message: "You are currently offline. Your submitted form data are stored temporarily, and will be submitted again when you are online." Below this is a table listing a single row of data:

ID	UI App ID	Form Name	Username	Status	Date Submitted
1	test_pwa_offline	Test PWA Offline UI > Manage Request	admin	Pending	21/10/2022 5:06 pm

At the bottom, a network throttling dropdown menu is open, showing options: Disabled, No throttling (which is highlighted with a red box and arrow), Fast 3G, Slow 3G, Offline, and Custom Add... A red arrow points from the "No throttling" option to a red box around a circular icon with a Wi-Fi symbol and a slash through it, indicating that no throttling is selected. The footer includes a note about identifying the project's root folder, a "Set root folder" button, and a "Don't show again" link. It also says "Powered by Joget". The browser's developer tools Network tab is visible at the bottom, showing a request for "Offline" with a status of "35 35" and a "51" badge.

Chapter Review

We have learnt to:

1. Add app to homescreen on mobile.
2. Push Notification.
3. Offline Support.

Module Review

1. Introduction to UI Builder
2. Designing Your First UI
3. Introduction to Page Component
4. Introduction to PWA

Recommended Further Learning

- Hash Variables
- Permission Control

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