

# RADS

## Designing Your First Userview

<https://github.com/radservice/rad-community/fork>

# Prerequisites

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- Created Process, Form, and Datalist.

# Content

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1. Introduction to Userview Builder
2. Designing Your First Userview
3. Introduction to PWA

A short horizontal bar with a black left half and an orange right half.

# Chapter I

## Introduction to Userview Builder

# Uview Builder

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

# Userview Builder

The screenshot displays the Userview Builder interface. At the top, a dark header bar contains the RAD Service logo and the text "USERVIEW BUILDER purchaseRequisition v1: #i18n.app.welcome# to Purchase Requisition Portal (Published)". Below this is a navigation bar with four tabs: "DESIGN USERVIEW" (active), "SETTINGS", "PREVIEW", and "SAVE".

On the left side, there is a sidebar titled "Basic" containing a list of available elements: Form, HTML Page, Inbox, Link, List, Run Process, Universal Inbox, and User Profile. A red bracket highlights this sidebar.

The main workspace shows a design view of a web portal. The header section includes the text "#i18n.app.welcome# to Purchase Requisition Portal" with a "Click to edit" link, a date placeholder "#date.EEE, d MMM yyyy#", and a "Logout" link. Below the header is a "Menu" section with a "Home" link and a "Drop menu item here" placeholder. A "Welcome" message is displayed below the menu. The main content area is labeled "<Content>".

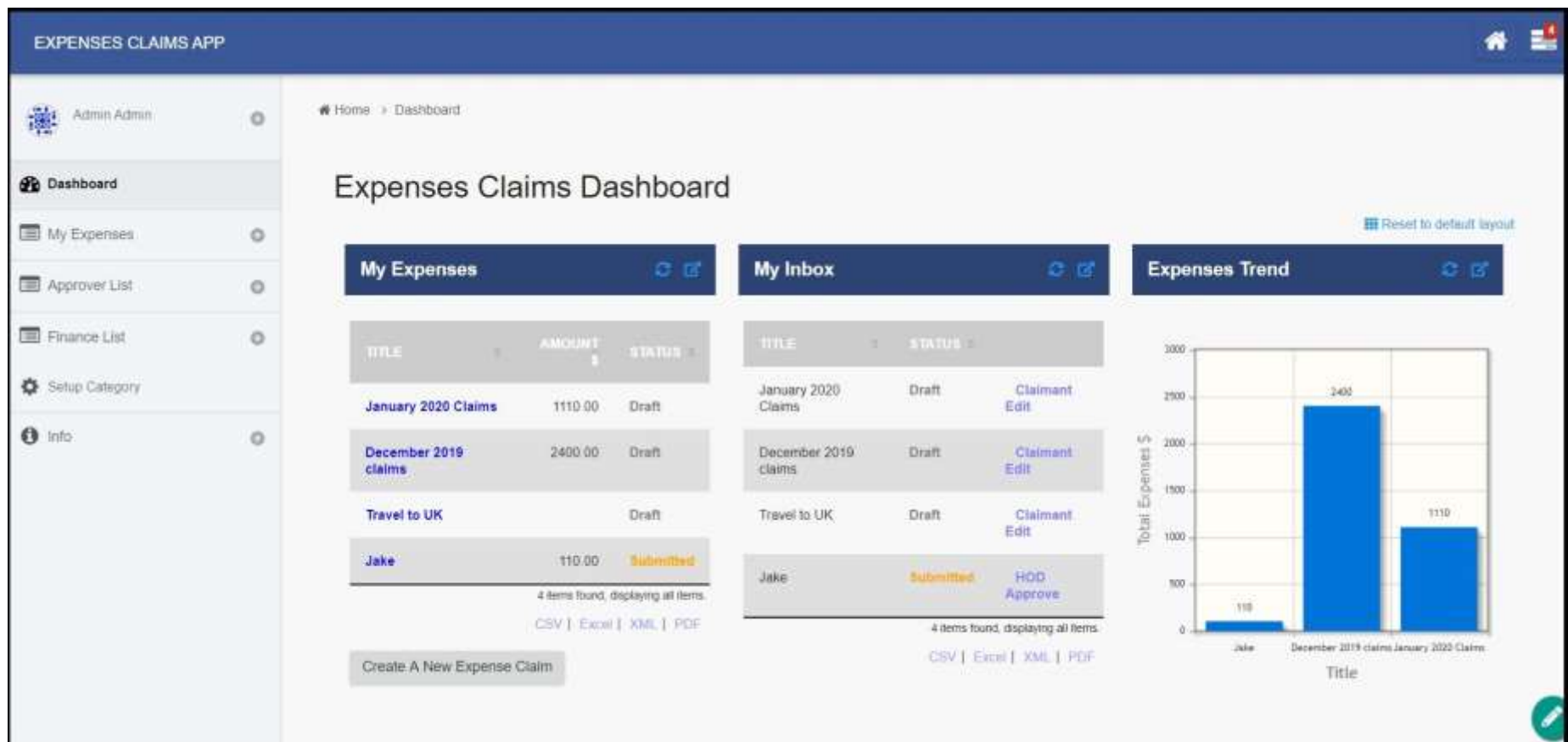
A red box highlights a list of features:

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

At the bottom of the design view, the footer text reads: "Powered by <a href='\"https://rads.purwana.net\"' target='\"\_blank\"'>RADS</a>."

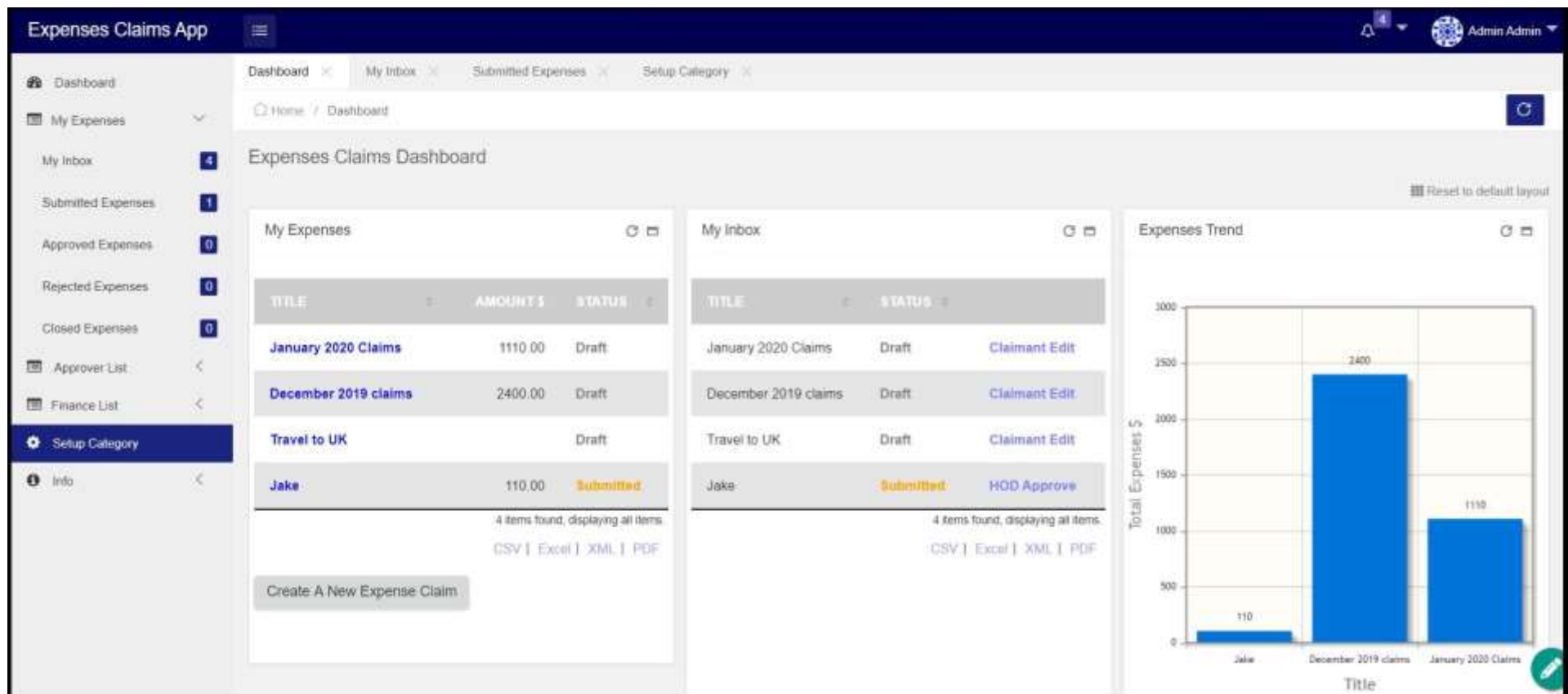
# Userview Builder

- Sample Userview using the **DX Progressive** theme



# Userview Builder

- Sample Userview using the **DX X-Admin** theme





# Chapter Review

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



# Chapter 2

## Designing Your First Userview

# Before You Continue

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- 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

# Create New Userview

Version 1 Published

Forms & UI

Processes

Properties & Export

Logs

All Apps

Create New Form

FORMS

- 1 - Submit Request
- 2 - Approve / Reject Request
- 3 - Acknowledge Approved

Create New Datalist

LISTS

- purchase\_requests
- purchase\_requests
- purchase\_requests
- Request List

Create New Userview

USERVIEW

18n.app.welcome# to Purcha: Requisition Portal

## CREATE NEW USERVIEW

### USERVIEW DETAILS

ID	purchaseRequisitionPortal
Name	Purchase Requisition Portal
Description	

# Userview Category

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

The screenshot displays the 'USERVIEW BUILDER' interface for 'purchaseRequisition v1: Purchase Requisition Portal (Published)'. The top navigation bar includes 'DESIGN USERVIEW', 'SETTINGS', 'PREVIEW', and 'SAVE'. On the left, a 'Basic' category sidebar lists various components: Form, HTML Page, Inbox, Link, List, Run Process, Universal Inbox, and User Profile. The main workspace shows the 'Purchase Requisition Portal' title with a 'Click to edit' prompt and a date format '#date.EEE, d MMM yyyy#'. Below this is a 'Menu' section with a 'Home' item and a 'Drop menu item here' placeholder. A red box highlights a '+' icon and a dropdown menu labeled 'Add Category'.

&lt;Cont

# HTML Page As the First Item

- When the **Userview** 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 Userview is created.
- You may edit as needed by clicking on **Properties** while hovering over it.
- Reference: <https://docs.rads.purwana.net/HTML+Page>



# Run Process Menu

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- **Run Process** enables one to start a process instance from the Userview.
- Reference:  
<https://docs.rads.purwana.net/Run+Process+Menu>

# Add Run Process Into Userview

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

The screenshot displays the USERVIEW BUILDER interface for a 'Purchase Requisition Portal'. The interface includes a top navigation bar with 'DESIGN USERVIEW', 'SETTINGS', 'PREVIEW', and 'SAVE' tabs. A left sidebar lists various widgets: Form, HTML Page, Inbox, Link, List, Run Process (highlighted with a red box), Universal Inbox, and User Profile. The main workspace shows a 'Purchase Requisition Portal' layout with a 'Menu' section containing 'Home' and 'Welcome' items. Below the menu is a 'Purchase Requisition' section, which is highlighted with a red box and contains a 'Run Process' widget. A red arrow points from the 'Run Process' widget in the sidebar to the 'Run Process' widget in the 'Purchase Requisition' section. The footer of the portal indicates it is 'Powered by RADS'.



# Integrate Run Process Into Userview

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

The screenshot displays the 'USERVIEW BUILDER' interface for a 'Purchase Requisition Portal'. The top navigation bar includes 'DESIGN USERVIEW', 'SETTINGS', 'PREVIEW', and 'SAVE'. The left sidebar lists various components: Basic, Form, HTML Page, Inbox, Link, List, Run Process, Universal Inbox, and User Profile. The main workspace shows a preview of the portal layout with sections for 'Menu' (Home, Welcome, Purchase Requisition, Run Process) and a configuration panel for the 'Run Process' section. The configuration panel is titled 'Edit Run Process' and includes the following fields:

Edit Run Process	
Edit Run Process > Redirection > Advanced > Performance & Offline	
Id	220E6D0376464F118E8282E8B96274EF
Custom ID	
Label *	Submit New Request
Process *	Purchase Request Process (purchaseRequest)
Run Process Without Confirmation Screen?	<input checked="" type="checkbox"/>
Show in Popup Dialog?	<input type="checkbox"/>
Submit Button Label	

The 'Label' and 'Process' fields are highlighted with a red rectangle. The 'Powered by' section is visible at the bottom left of the preview area.

# Custom ID for Userview Menu

- Assign a **Custom ID**. It is used to identify the link's name.
- Custom ID is **optional** but it must be **unique** when set.

The image shows two overlapping screenshots. The background screenshot is the 'Edit Run Process' configuration page, which includes a breadcrumb trail 'Edit Run Process > Redirection > Advanced > Performance & Offline'. A red box highlights the 'Custom ID' field with the value 'submit'. The foreground screenshot is a web application menu titled 'PURCHASE REQUEST PORTAL'. It shows a 'Submit New Request' link. A red arrow points from the 'submit' Custom ID in the configuration page to the URL of the 'Submit New Request' link, which is '.../\_submit?\_action=assignmentView&activityId=...'.

**Edit Run Process** ?

Edit Run Process > Redirection > Advanced > Performance & Offline

Custom ID: submit

Label \*: Submit New Request

Process \*: Purchase Request P

Run process without confirmation screen? ☒

Show in popup dialog? ☐

Submit Button Label

localhost:8080/jw/web/userview/purchaseRequisition/purchaseRequisition/\_submit?\_action=assignmentView&activityId=

**PURCHASE REQUEST PORTAL**

Home > Submit New Request

**PURCHASE REQUEST PROCESS - SUBMIT REQUEST**

**Request Details**

Name

Request Date \* MM/DD/YYYY

Category Stationery

# Add Inbox Into Userview

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

# Preview Userview

The screenshot displays the 'USERVIEW BUILDER' interface for a 'purchaseRequisition v1' application. The top navigation bar includes 'DESIGN USERVIEW', 'SETTINGS', 'PREVIEW' (highlighted with a red border), and 'SAVE'. On the left, a 'Basic' sidebar lists components: Form, HTML Page, Inbox, Link, List, Run Process, Universal Inbox, and User Profile. The main preview area shows a 'PURCHASE REQUISITION PORTAL' with a header '#i18n.app.welcome# to Purchase Requisition'. The portal layout includes a user profile for 'Admin Admin' and a 'Welcome' section with a 'Purchase Requisition' link. The main content area features three key messages: 'Build apps, not just processes!', 'Increased Efficiency and Productivity', and 'Lowered Cost'. A 'Preview' banner is visible in the top right corner of the preview area, and the footer indicates 'Powered by Jogel'.

**USERVIEW BUILDER** purchaseRequisition v1: #i18n.app.welcome# to Purchase Requisition

DESIGN USERVIEW SETTINGS **PREVIEW** SAVE

**Basic**

- Form
- HTML Page
- Inbox
- Link
- List
- Run Process
- Universal Inbox
- User Profile

**#i18n.app.welcome# to Purchase Requisition**

PURCHASE REQUISITION PORTAL

Admin Admin  
admin.admin@gmail.com

**Welcome**

Purchase Requisition

Submit New Request

Inbox

**Apps and Workflow Made Simple**

- 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**  
Employees can be guided through complex procedures, hence reducing the cost of training.

Preview

Powered by Jogel

# Publish the App

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- With the Userview 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 **Version/Publish** button, select the version to publish.

**Design App:**  
purchaseRequisition

Version 1 **Not Published**

**Forms & UI**

- Processes
- Properties & Export

**APP CONFIGURATION MANAGEMENT**

Search using key

Create New Form

**FORMS**

- 1 - Submit Requisition
- 2 - Approve / Requisition
- 3 - Acknowledge

Manage App Version Delegate App Designer Role

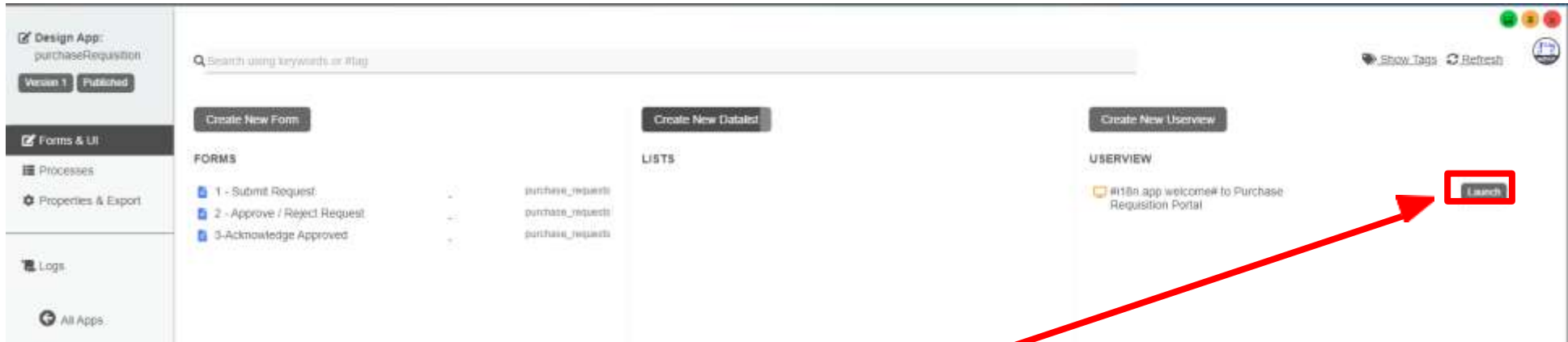
	VERSION	PUBLISHED	NOTES	DATE CREATED
<input type="radio"/>	1			18-10-2022 05:25 AM

15 | Page 1 of 1 | Displaying 1 to 1 of 1 items

New Version **Publish** Unpublish View Delete

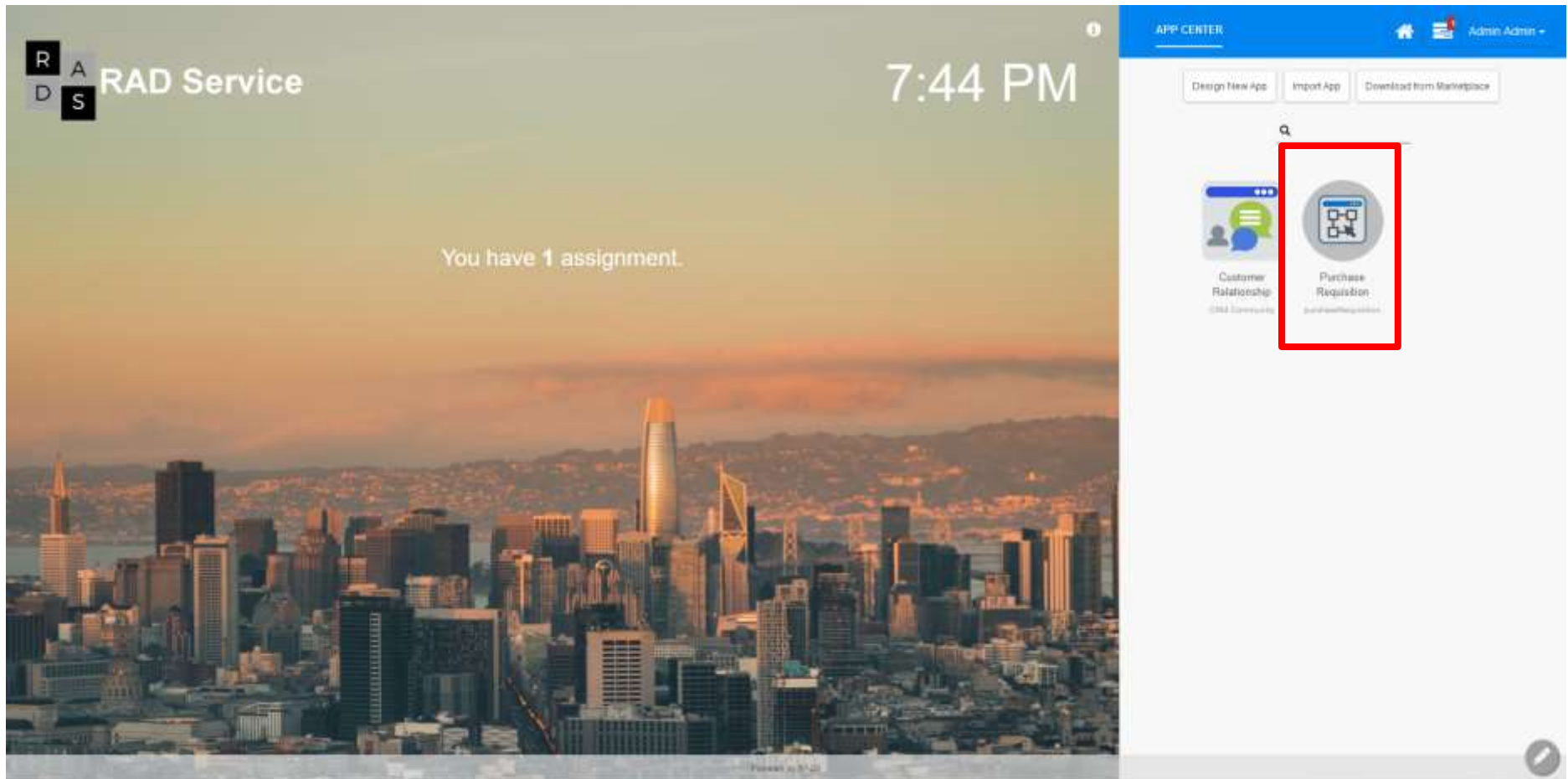
# Launching the Published App

- Click on **Launch** under Userview pane.



# Launching the Published App

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





# Exercise: Run Through the Process

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

The screenshot displays the 'PURCHASE REQUISITION PORTAL' interface. On the left sidebar, the 'Submit New Request' button is highlighted with a red rectangle. The main content area shows the 'PURCHASE REQUEST PROCESS - SUBMIT REQUEST' form. The form includes fields for 'Name', 'Request Date' (with a date picker), and 'Category' (with a dropdown menu). Below these fields is a table for 'Items' with columns for 'Name' and 'Quantity'. The table has two rows, each with a 'Click to edit' link. At the bottom of the table is an 'Add Row' button.

**PURCHASE REQUISITION PORTAL**

Admin Admin  
ian.edryan@gmail.com

Welcome

**Purchase Requisition**

**Submit New Request**

Inbox

Home > Purchase Requisition > Submit New Request

**PURCHASE REQUEST PROCESS - SUBMIT REQUEST**

**Request Details**

Name

Request Date \* MM/DD/YYYY

Category Stationery

Items

Name	Quantity
Click to edit	Click to edit
Click to edit	Click to edit

Add Row

# 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

Request Date

Category

**Items**

Name	Quantity
<a href="#">Click to edit</a>	<a href="#">Click to edit</a>
<a href="#">Add Row</a>	

**Remarks**

[Save As Draft](#) [Complete](#)

# Exercise: Integrate DataList Into Userview

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

# Exercise: Add CRUD Functionality

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

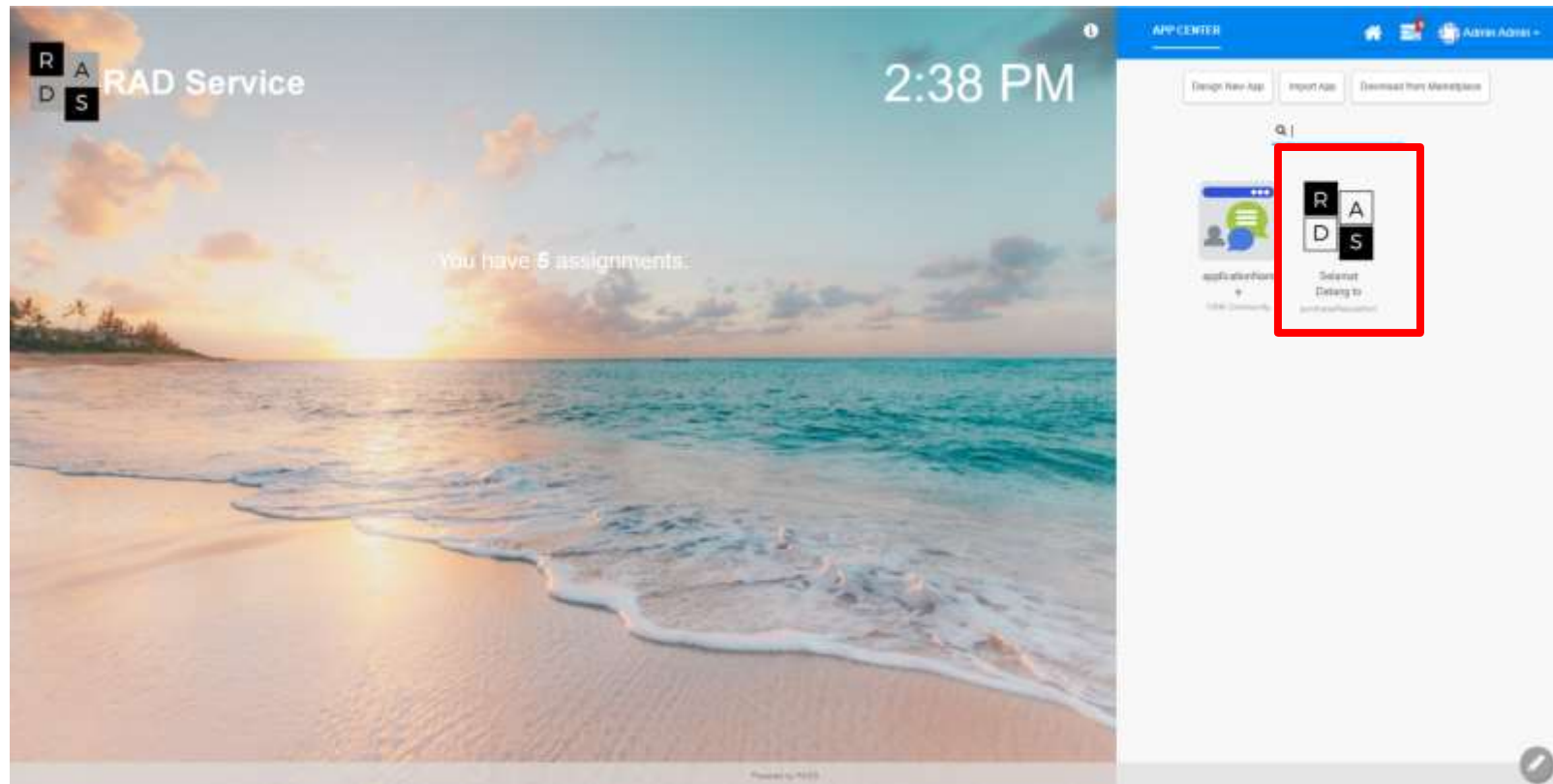
# Exercise: Change Userview Theme

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- At Userview Builder's settings, change the Userview 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.



# Chapter Review

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We have learnt to:

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



# Chapter 3

## Introduction to PWA



# Requirements

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- Your mobile phone/device with PWA-supported browsers.
- For PWA to work, it requires RADS to have a secure web connection (HTTPS).
- The theme used in the RADS App is PWA compliant (By default: DX Progressive Theme & DX X-Admin Theme are PWA compliant).

# Push Notification

- Enable Push Notification in the app itself.

The screenshot shows the RAD Studio interface for a Design App named 'test PWA Offline'. The 'Properties & Export' tab is selected in the left sidebar. The 'Set Plugin Default Properties' dialog box is open, displaying a table of plugins. The 'User Notification' plugin is highlighted with a red box.

**SET PLUGIN DEFAULT PROPERTIES**

Filter by Type: Audit Trail

Search:

PLUGIN NAME	PLUGIN DESCRIPTION	PLUGIN VI	TYPE
Process Data Collector	Save process data into app_report_* tables for reporting purposes.	5.0.0	Audit Trail
User Notification	Sends notification email and push notification (PWA) to assignee on new assignment creation.	7.0.0	Audit Trail, Web Service

15 Page 1 of 1 Displaying 1 to 2 of 2 items

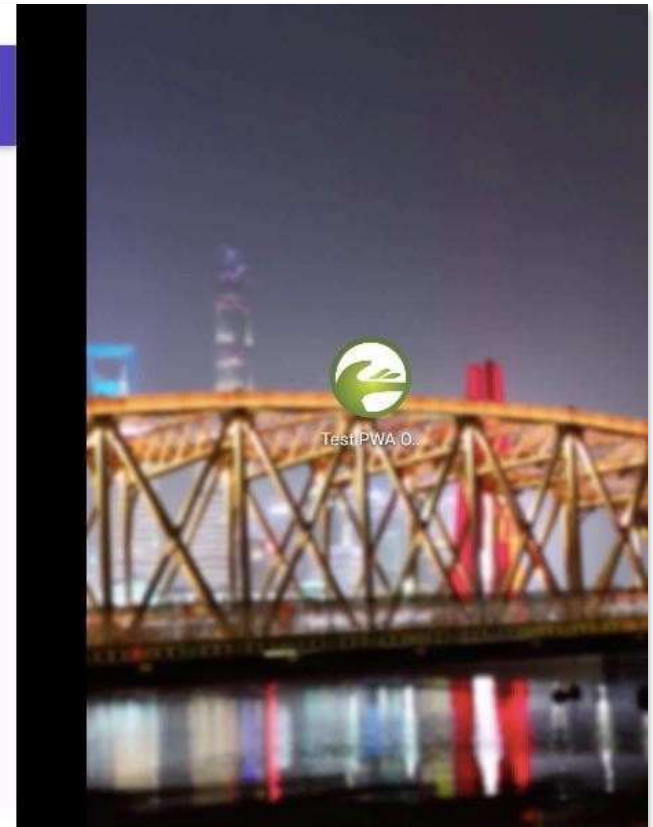
# Push Notification

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

The screenshot shows a web browser window with the URL `training.beta.joget.com/jw/web/userview/testPwaOffline/v/_/re...`. The page title is "TEST PWA OFFLINE". The breadcrumb navigation is "Home > Request Approval Process > Submit Request". The main heading is "REQUEST APPROVAL PROCESS". Below this is a form with the following fields:

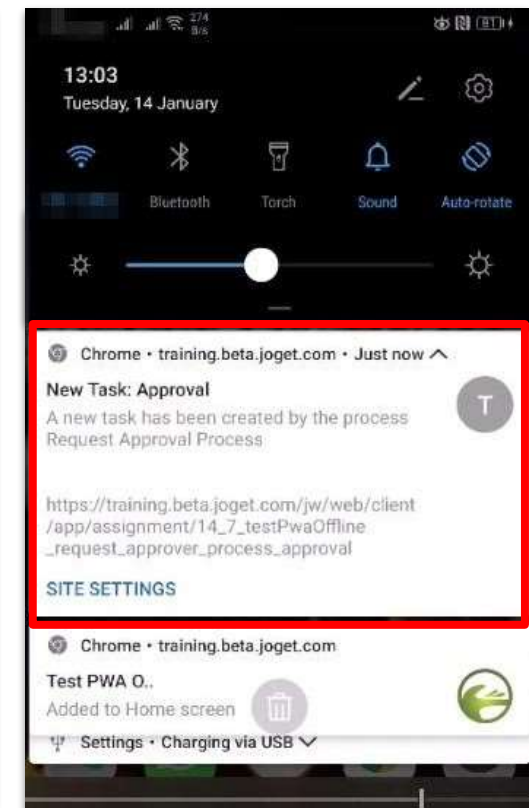
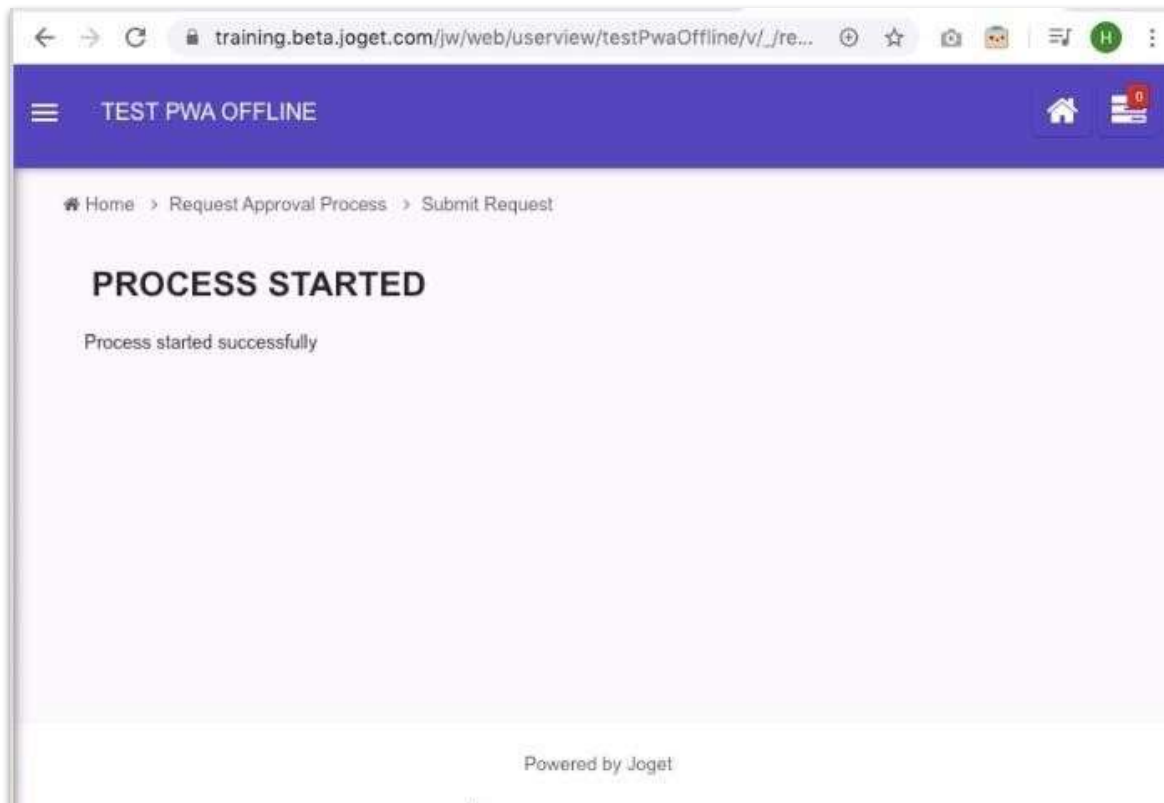
- Section**: (empty)
- Name**: "Test approval where approver is cat who is logged in on phone on the right"
- Option**: Two radio buttons, "Option A" and "Option B", both of which are unselected.

A red rectangular box highlights the "Submit" button at the bottom left of the form.



# Push Notification

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



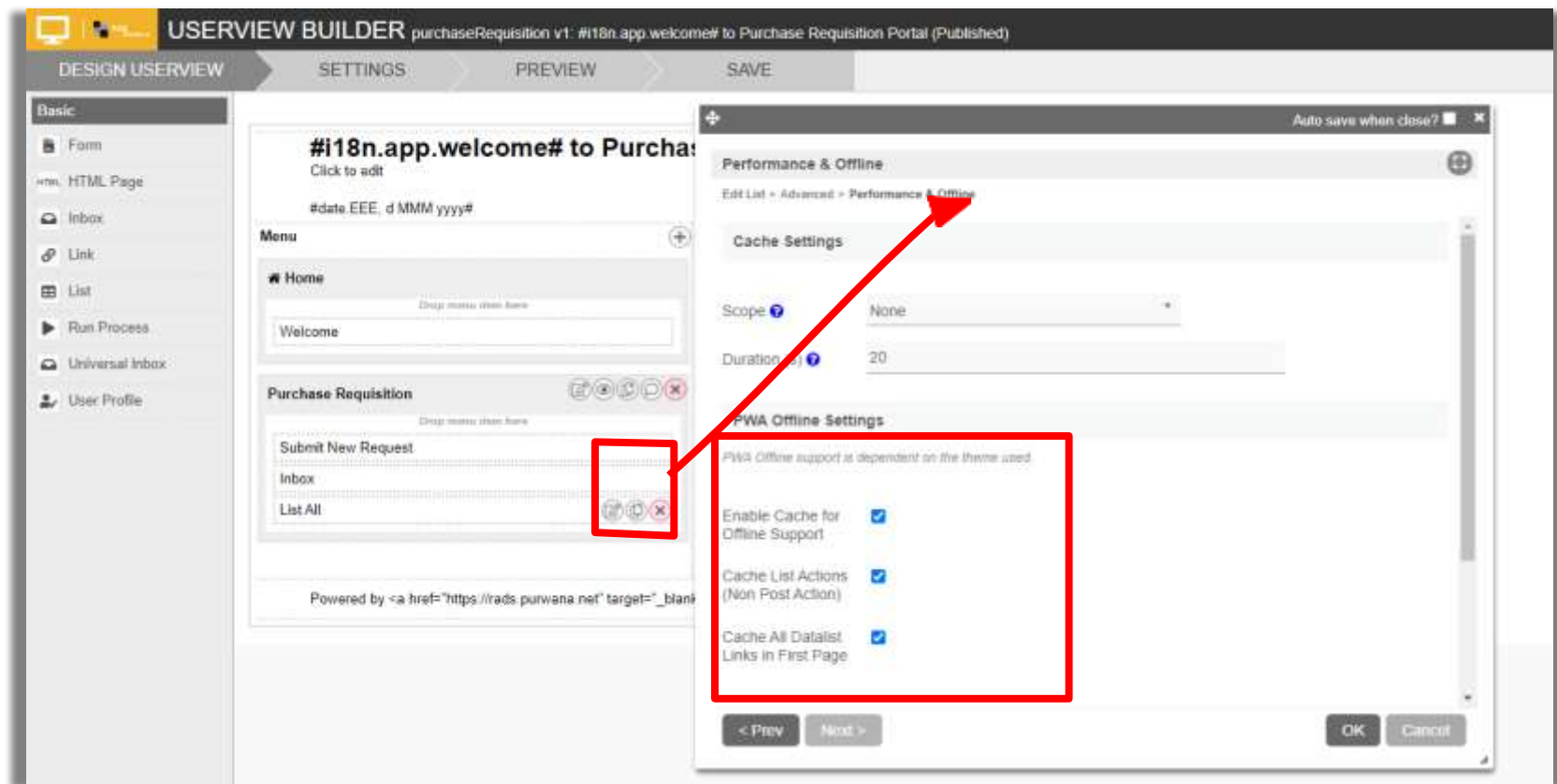
# Offline Support

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

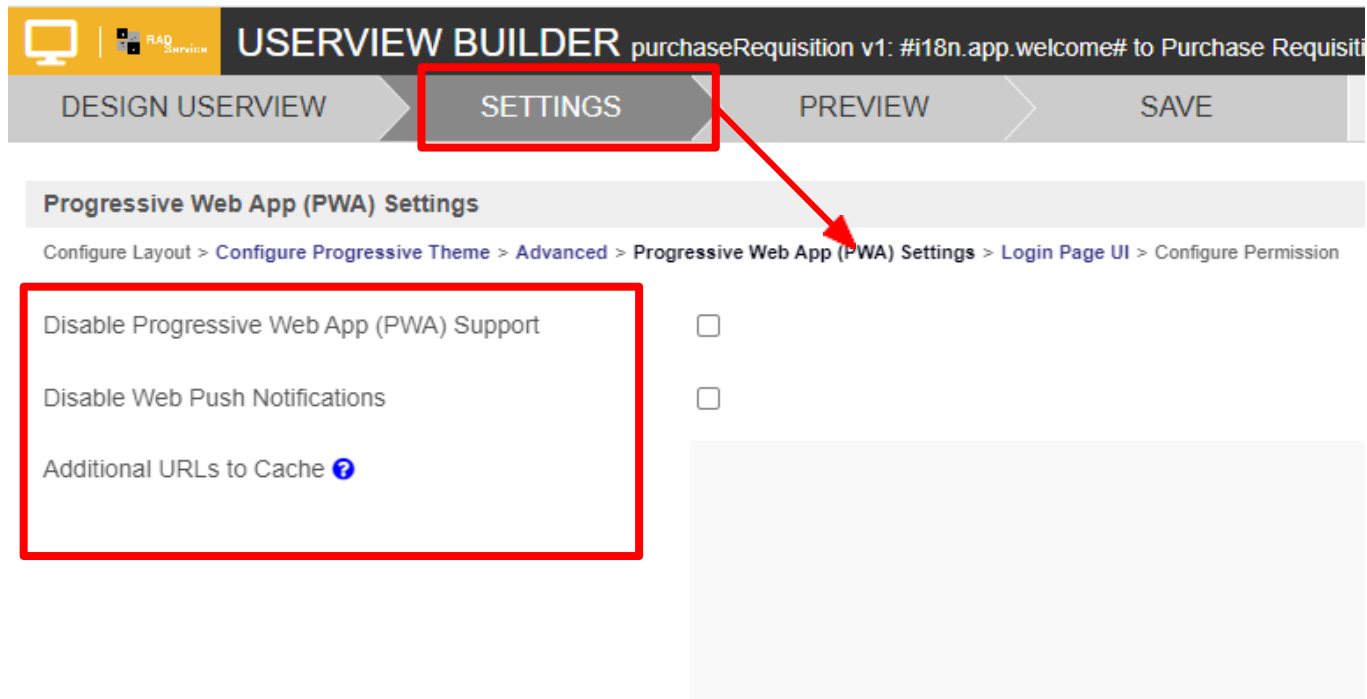
# How To Enable PWA Offline Support

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



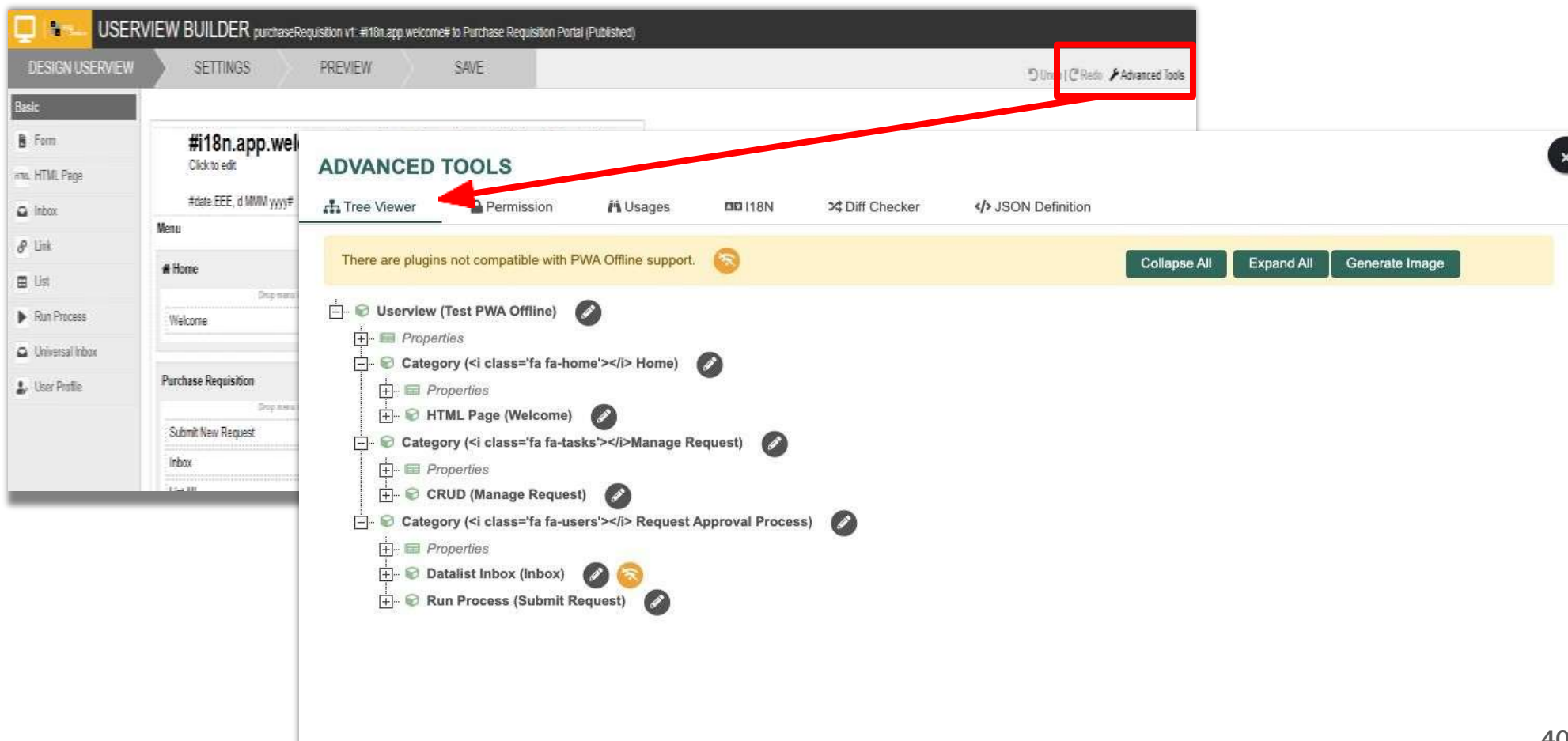
# Where Are The PWA Settings?

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



# PWA Offline Compatibility

- Compatibility check inside Userview Builder's Tree Viewer.





# Chapter Review

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We have learnt to:

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

# Module Review

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1. Introduction to Userview Builder
2. Designing Your First Userview
3. Introduction to PWA

# Recommended Further Learning

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- Hash Variables
- Permission Control

# Stay Connected With RADS

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- [rads.purwana.net](https://rads.purwana.net)
- <https://github.com/radservice/rad-community>