



Joget DX8

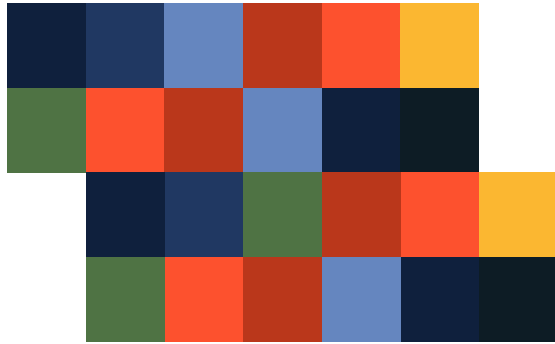
Introduction to Reporting

Prerequisites

1. Basic understanding of reporting means.
2. Basic understanding of using SQL to generate report.
3. Jaspersoft Studio is optional for one of the chapters.

Content

1. Introduction
2. Chart
3. JasperReports
4. Dashboard
5. Report Builder



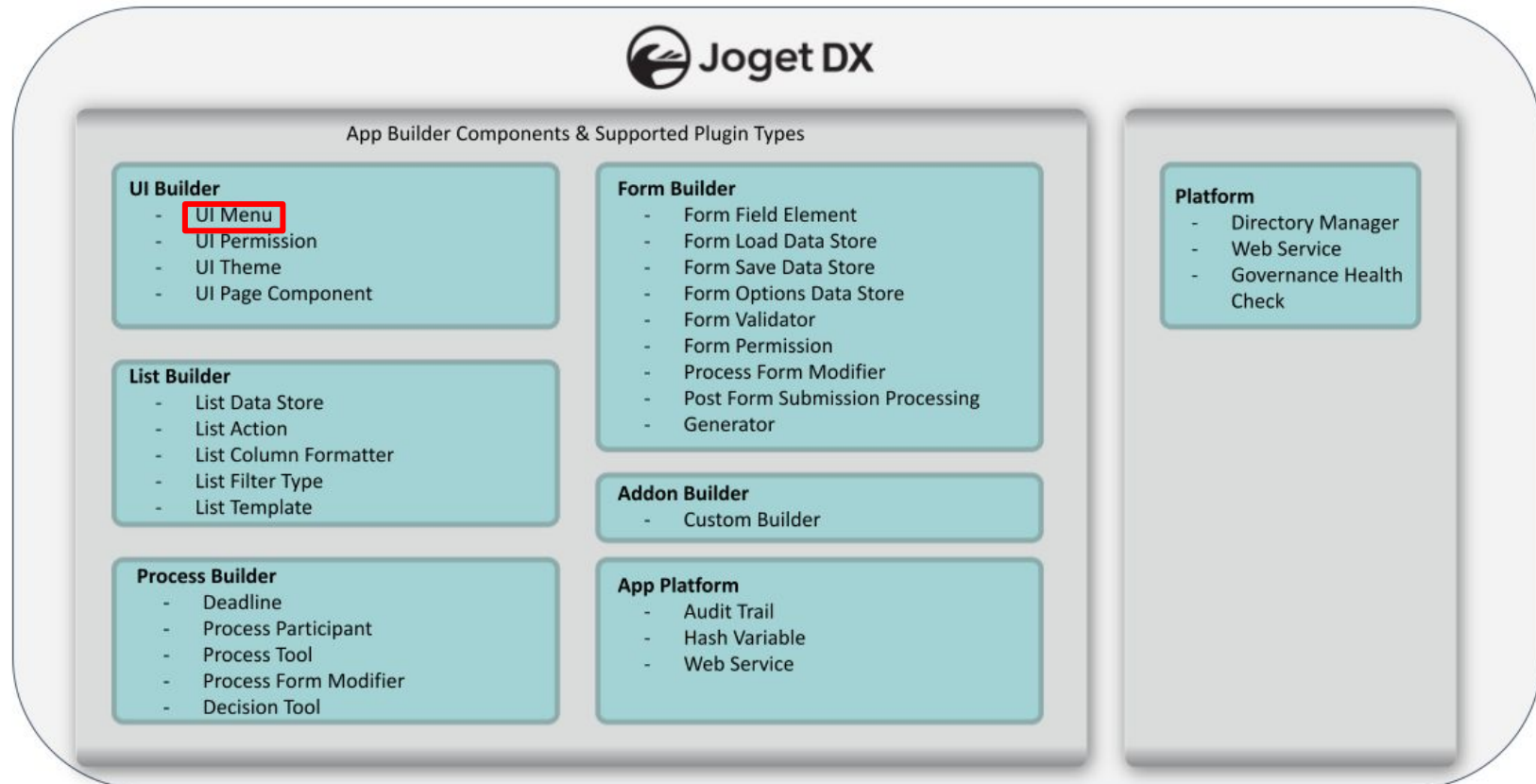
Chapter 1

Introduction

Introduction

- This module would introduce you to some of the basic reporting means available in Joget.
- We will be covering Chart, JasperReports, and Dashboard UI Menus.

Plugin Types





Chapter 2

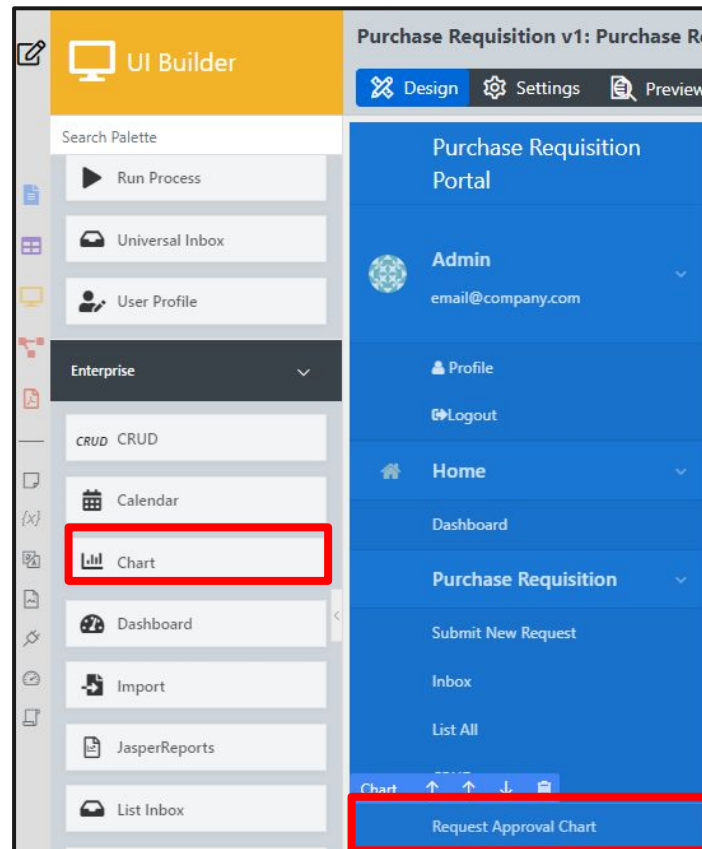
Chart

Chart

- Chart is a UI Menu that generate graphs based on the defined data store or datasource.
- Reference:
<https://dev.joget.org/community/display/DX8/Chart+Menu>

Exercise

- Import the base app, **13.jwa** into your Joget.
- Edit the UI, add a Chart. Configure accordingly.



Configure Chart ?

Label *
Request Approval Chart

Menu ID

Chart Type *
Bar Chart

Chart Title
Request Approval Chart

Chart Library
jqPlot Charts



Datasource

Datasource ?
Load Data From

Data Store *
Advanced Form Data

Configure Advanced Form ?

Form *
1-Submit Request

AGGREGATE QUERY

Aggregate Fields

| FIELD * | FUNCTION * |
|----------|------------|
| approval | Count |

Group By ?

category
createdBy
createdByName
dateCreated
dateModified
id
items
modifiedBy

>>
>
<
<<

approval

Data Store & Chart Data Mapping

Order By

Order

ASC

X-axis Value *

approval

Y-axis Values *

| Number Value * | Series Name |
|------------------|-------------|
| approval (COUNT) | Requests |

Series Customization






Chart Options 

X-axis Label *

Status

X-Axis Display as

Category 

Y-axis Label *

Category of Requests

Y-axis Prefix

☒ Show Legend

☒ Show Value Label in Chart

☐ Stack Series

☐ Display as Horizontal Chart

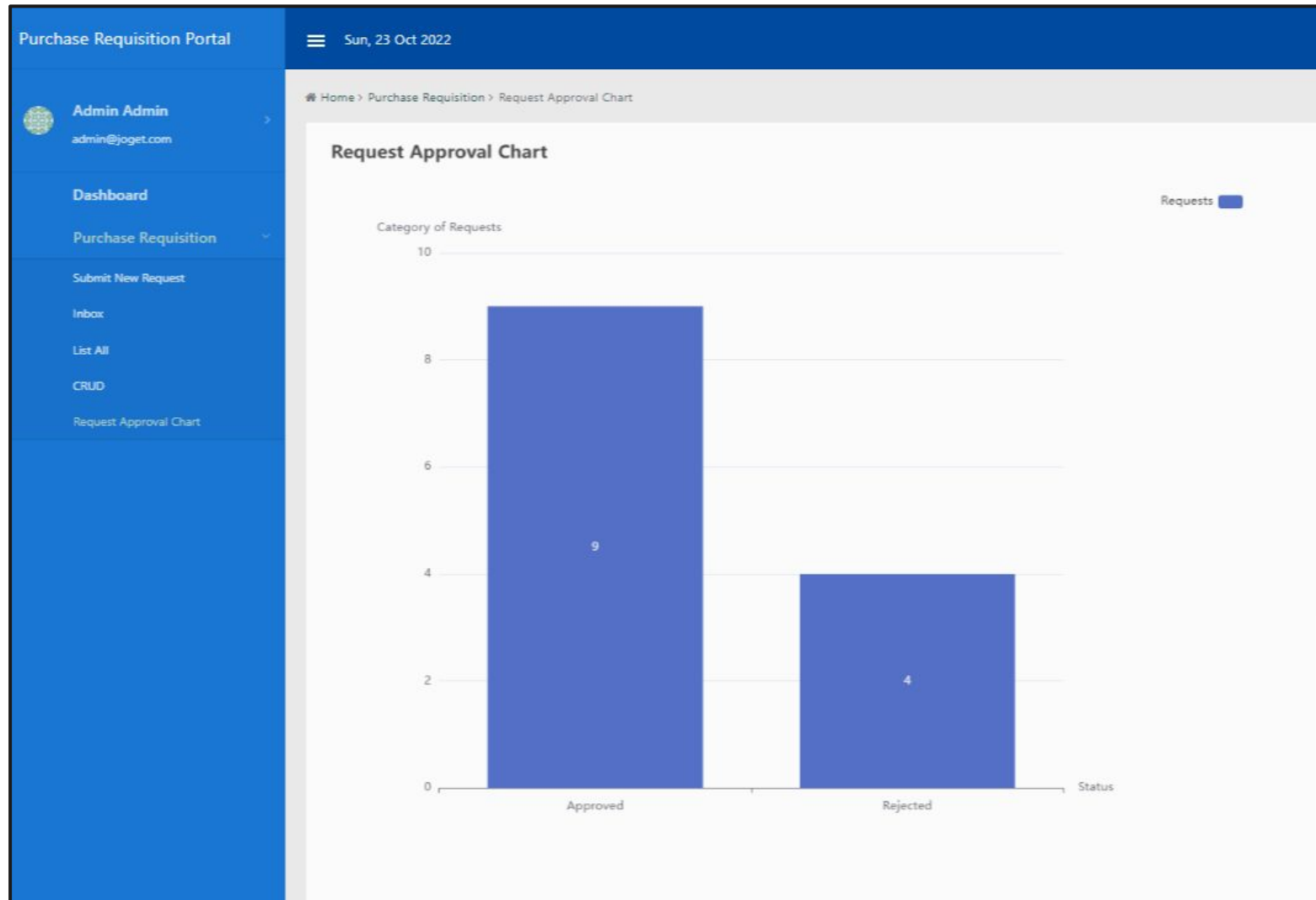
Width *

60%

Height *

50%

This Is How the Chart Should Look like in Runtime.



Materials

- “Purchase Requisition Portal” UI definition can be obtained at **14.2.1.txt**

Chapter Review

- Able to use the Chart.



Chapter 3

JasperReports

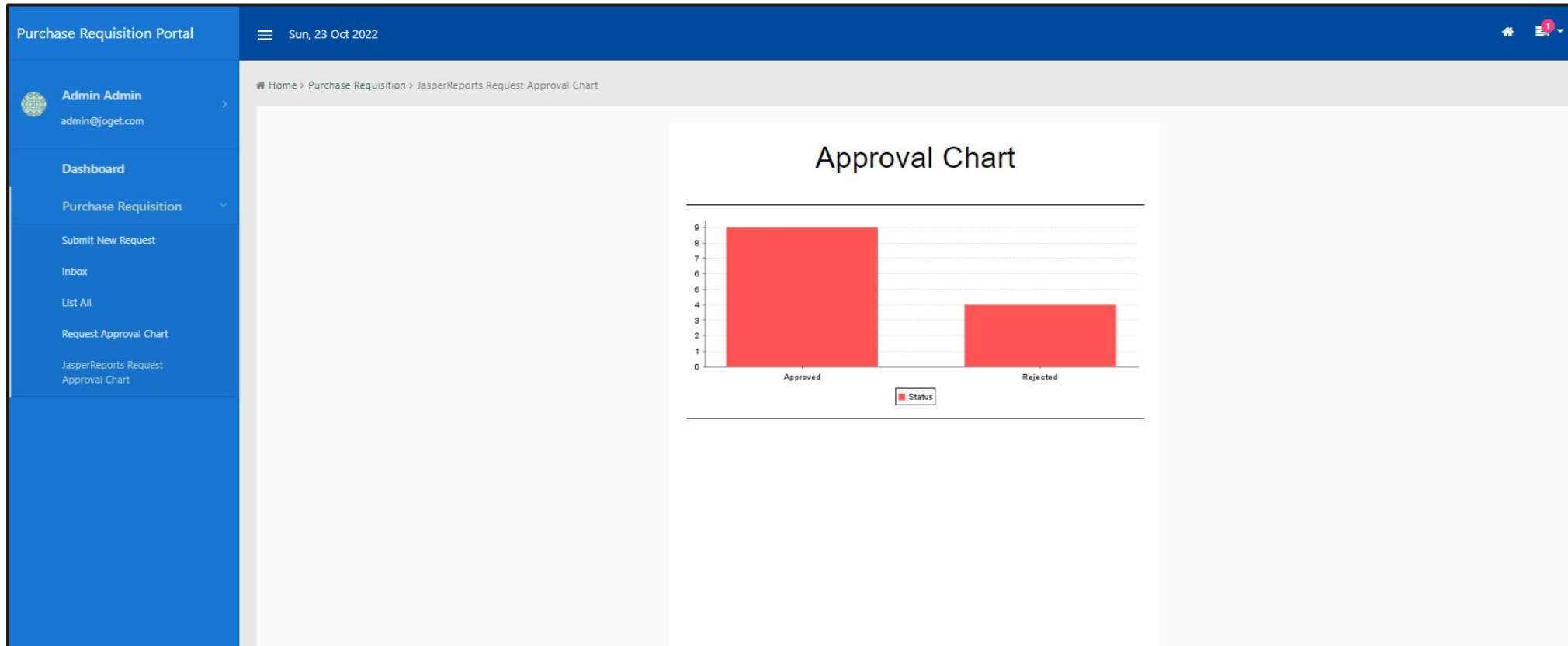
JasperReports

- JasperReports offers better reporting means through integration with JasperReports report definition.
- Reference:
<https://dev.joget.org/community/display/DX8/JasperReports+Menu>

Exercise – Optional

- Continue to use the app from the previous chapter.
- Add a JasperReports element into the UI.
- Configure the newly added element.
 - Label: JasperReports Request Approval Chart
 - JasperReport Definition (JRXML): (Obtain from file **14.3.1.txt**)
 - Datasource: Default Datasource

This Is How the Chart Should Look like in the Runtime.



Chapter Review

- Able to add a JasperReports element into a Joget app.



Chapter 4

Dashboard

Dashboard

- Dashboard menu displays multiple menu items from a selected UI in a resizable grid layout.
- See important information from various UI elements in a single glance.
- Able to edit some information on the same page!
- Reference:
<https://dev.joget.org/community/display/DX8/Dashboard+Menu>

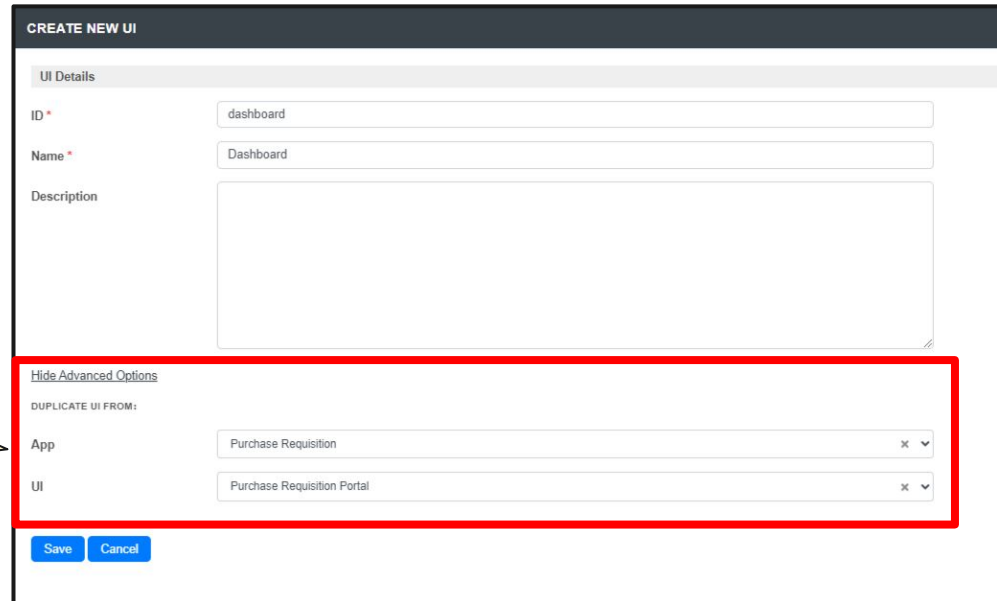
Dashboard

- There are 3 types of configuration
 - Using UI
 - Using UI Menu Plugin
 - Using URL Portlet Setting

Dashboard Using UI

- Continue to use the app from the previous chapters.
- Dashboard element works by reading the elements available in a selected UI, so let's create a new UI with the details below:

Remember to click on this!
You can use this feature to duplicate from another UI.



CREATE NEW UI

UI Details

ID * dashboard

Name * Dashboard

Description

Hide Advanced Options

DUPLICATE UI FROM:

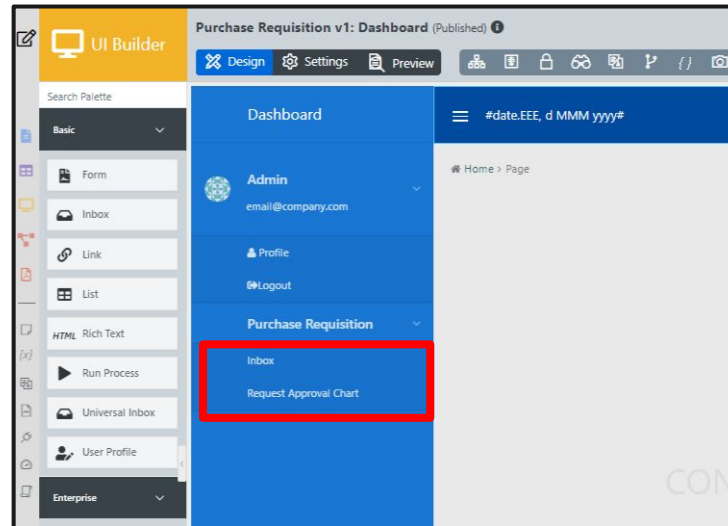
App Purchase Requisition x

UI Purchase Requisition Portal x

Save Cancel

Dashboard Using UI

- Remove all other UI elements until only these elements remain.



- To make our Dashboard more informative, go ahead and **add in** another **Chart** element! Configure accordingly.

Configure Chart ?

Label *
Category Demand Chart

Menu ID

Chart Type *
Bar Chart

Chart Title
Category Demand Chart

Chart Library
Apache ECharts

Datasource

Datasource ?
Load Data From

Data Store *
Advanced Form Data

Configure Advanced Form ?

Form *
3-Acknowledge Approved

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Chart Options

ECharts Theme

Default

X-axis Label *

Category

X-Axis Display as

Category

Y-axis Label *

Amount

Y-axis Prefix

☒ Show Legend

☒ Show Value Label in Chart

☐ Stack Series

☐ Display as Horizontal Chart

☐ No Boundary Gap

Width *

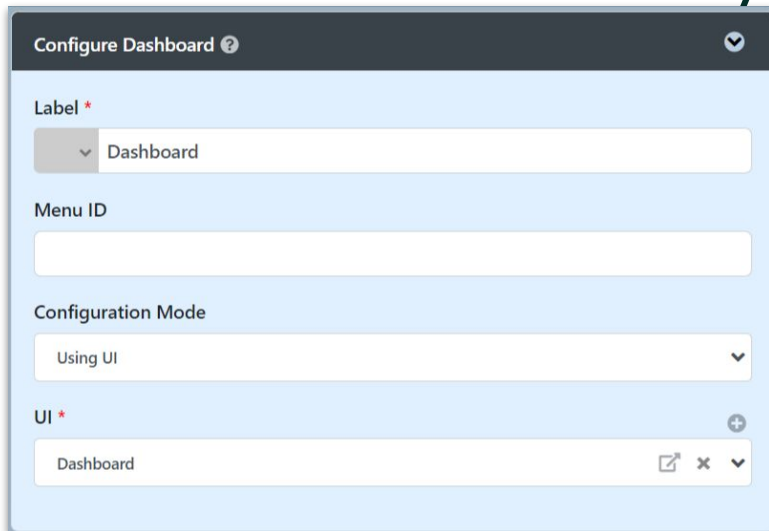
60%

Height *

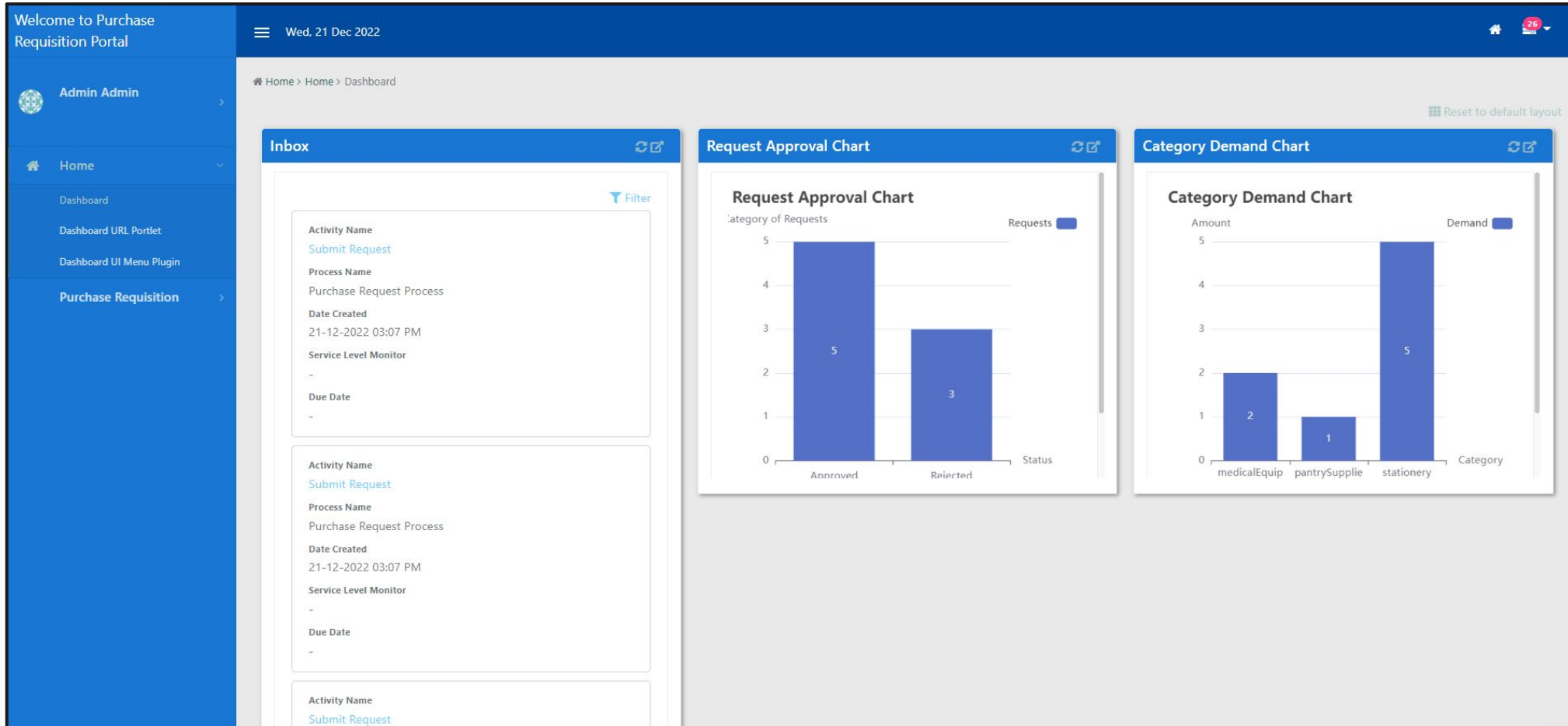
50%

Dashboard Using UI

- By now, you should have just 1 inbox and 2 chart elements. Save the UI.
- Now go to the UI Builder of **Purchase Requisition Portal. Remove** the “Welcome” menu and replace with a Dashboard menu. Configure accordingly. Remember to save your changes!



This Is How the Dashboard Should Look Like in Runtime.



Dashboard Using UI Menu Plugin

Configuration Mode

Using UI Menu Plugin

Portlet Setting

UI Menu Plugin *

Form

Configure Form ?

Custom ID

Label *

Form *

1-Submit Request

☐ Show in Popup Dialog?

☐ Readonly?

☒ Display Field as Label When Readonly?

☐ Fixed Position

☒ Resizable

☒ Auto Adjust Portlet Height

UI Menu Plugin *

Inbox

Configure Inbox ?

Custom ID

Label *

Inbox

Assignments to Display

All Assignments

UI Menu Plugin *

CRUD

Configure CRUD ?

Custom ID

Label *

CRUD

List *

Request List

Form (Add)

1-Submit Request

Form (Edit)

1-Submit Request

Dashboard Using UI Menu Plugin in Runtime

Welcome to Purchase Requisition Portal

Admin Admin

Home

Dashboard

Dashboard URL Portlet

Dashboard UI Menu Plugin

Purchase Requisition

Wed, 21 Dec 2022

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Home > Home > Dashboard UI Menu Plugin

Reset to default layout

Form

Request Details

Name

Admin Admin

Request Date *

MM/DD/YYYY

Category

Stationery

Items

| Name | Quantity | Price |
|---------------|---------------|---------------|
| Click to edit | Click to edit | Click to edit |

Add Row

Remarks

Save

Print

Inbox

10

Show

| Activity Name | Process Name | Date Created | Service Level Monitor | Due Date |
|----------------|--------------------------|---------------------|-----------------------|----------|
| Submit Request | Purchase Request Process | 21-12-2022 03:13 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:11 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:11 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:11 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:11 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:07 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:07 PM | - | - |
| Submit Request | Purchase Request Process | 21-12-2022 03:07 PM | - | - |

CRUD

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Approval

Show

| Name | Request Date | Category | Remarks |
|-----------|--------------|------------------|---------|
| Paul | 2022-09-30 | medicalEquipment | Search |
| Justin | 2022-10-01 | stationery | Search |
| Cat Grant | 2022-10-29 | medicalEquipment | Search |
| Paul | 2022-10-15 | stationery | Search |
| Cat Grant | 2022-10-21 | stationery | Search |
| Jake | 2022-09-30 | stationery | Search |
| Jay | 2022-10-21 | pantrySupplies | Search |
| Cat Grant | 2022-11-04 | stationery | Search |

8 items found, displaying all items.

1

CSV | Excel | XML | PDF

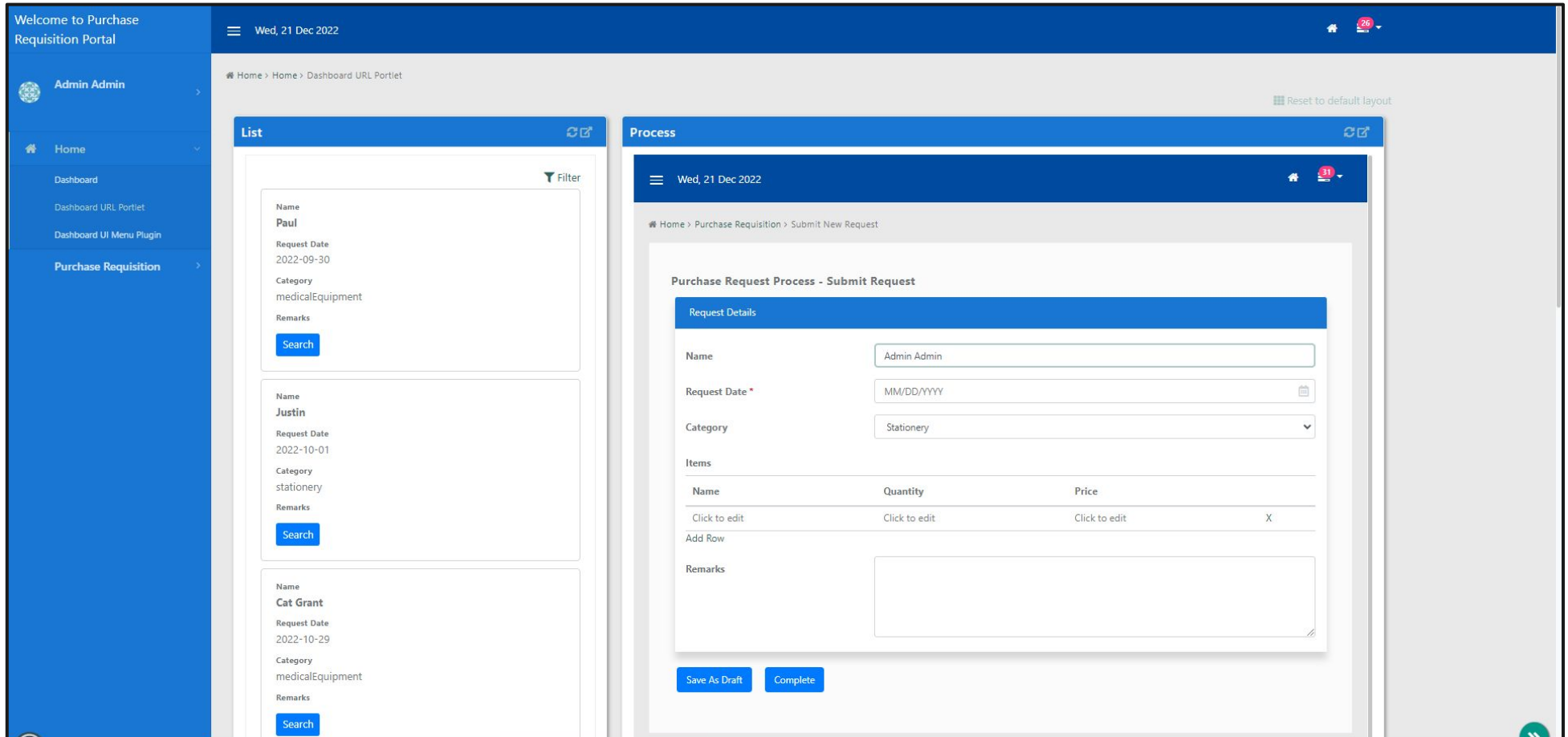
Dashboard Using URL Portlet Setting

URL Portlet Setting

| | |
|---|--|
| URL * | Label * |
| <input type="text" value="requestList?embed=true"/> | <input type="text" value="List"/> |
| Position X | Position Y |
| <input type="text"/> | <input type="text"/> |
| Width (Column) | Min Height (px) |
| <input type="text" value="1"/> | <input type="text"/> |
| Auto Reload (Mins) | <input type="checkbox"/> Fixed Position |
| <input type="text"/> | <input checked="" type="checkbox"/> Auto Adjust Portlet Height |
| <input checked="" type="checkbox"/> Resizable | |

| | |
|---|--|
| URL * | Label * |
| <input type="text" value="submit"/> | <input type="text" value="Process"/> |
| Position X | Position Y |
| <input type="text"/> | <input type="text"/> |
| Width (Column) | Min Height (px) |
| <input type="text" value="2"/> | <input type="text"/> |
| Auto Reload (Mins) | <input type="checkbox"/> Fixed Position |
| <input type="text"/> | <input checked="" type="checkbox"/> Auto Adjust Portlet Height |
| <input checked="" type="checkbox"/> Resizable | |

Dashboard Using URL Portlet Setting in Runtime



The screenshot displays the Joget dashboard interface, which is divided into a left sidebar, a top header, and a main content area.

Left Sidebar: Contains navigation links for "Welcome to Purchase Requisition Portal", "Admin Admin", "Home", "Dashboard", "Dashboard URL Portlet", "Dashboard UI Menu Plugin", and "Purchase Requisition".

Top Header: Displays the date "Wed, 21 Dec 2022" and a "Reset to default layout" button.

Main Content Area: The dashboard is split into two columns. The left column, titled "List", shows a table of purchase requisitions with columns for Name, Request Date, Category, and Remarks. The right column, titled "Process", shows a form for submitting a new request, including fields for Name, Request Date, Category, and a table for items.

List Table:

| Name | Request Date | Category | Remarks |
|-----------|--------------|------------------|---------|
| Paul | 2022-09-30 | medicalEquipment | |
| Justin | 2022-10-01 | stationery | |
| Cat Grant | 2022-10-29 | medicalEquipment | |

Process Form:

Purchase Request Process - Submit Request

Request Details

Name: Admin Admin

Request Date: MM/DD/YYYY

Category: Stationery

Items

| Name | Quantity | Price |
|---------------|---------------|-----------------|
| Click to edit | Click to edit | Click to edit X |

Remarks: [Text Area]

Buttons: Save As Draft, Complete

Materials

- Completed App from previous chapters' exercises can be obtained at **14.4.jwa**.

Chapter Review

- Able to configure Dashboard for Joget apps.



Chapter 5

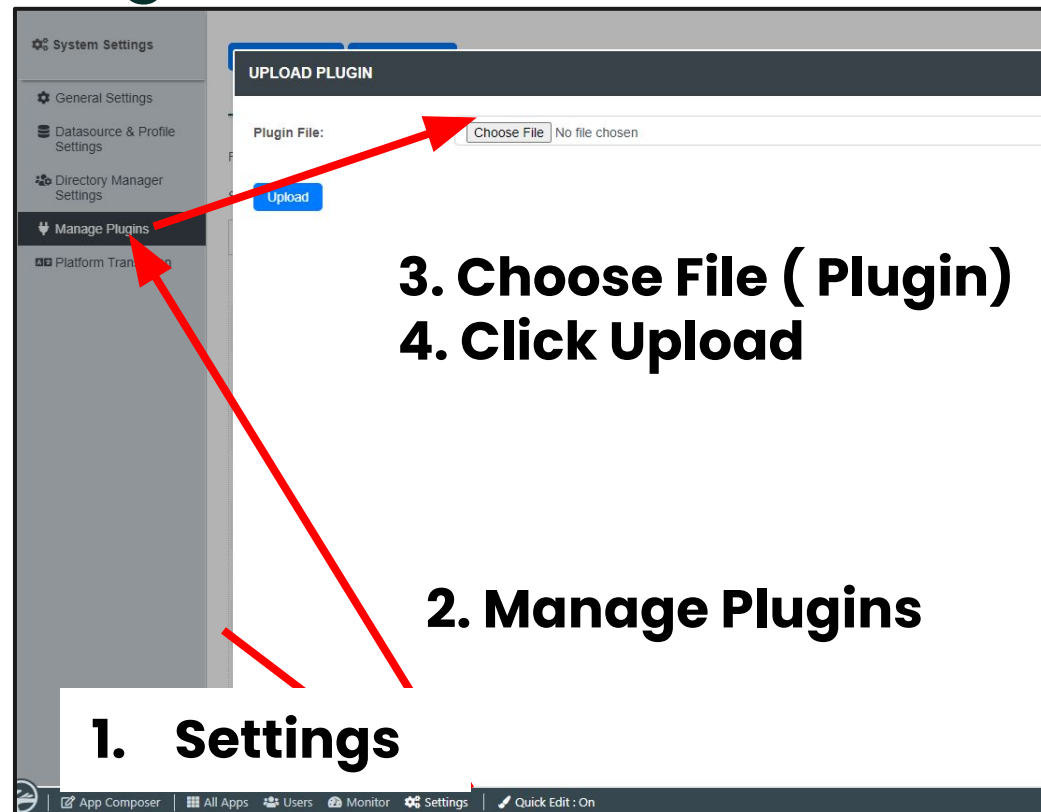
Report Builder

Report Builder

- Report Builder belongs to a new plugin type called Custom Builder.
- Allows one to create your own customized report.
- Reference:
<https://dev.joget.org/community/display/marketplace/Report+Builder>

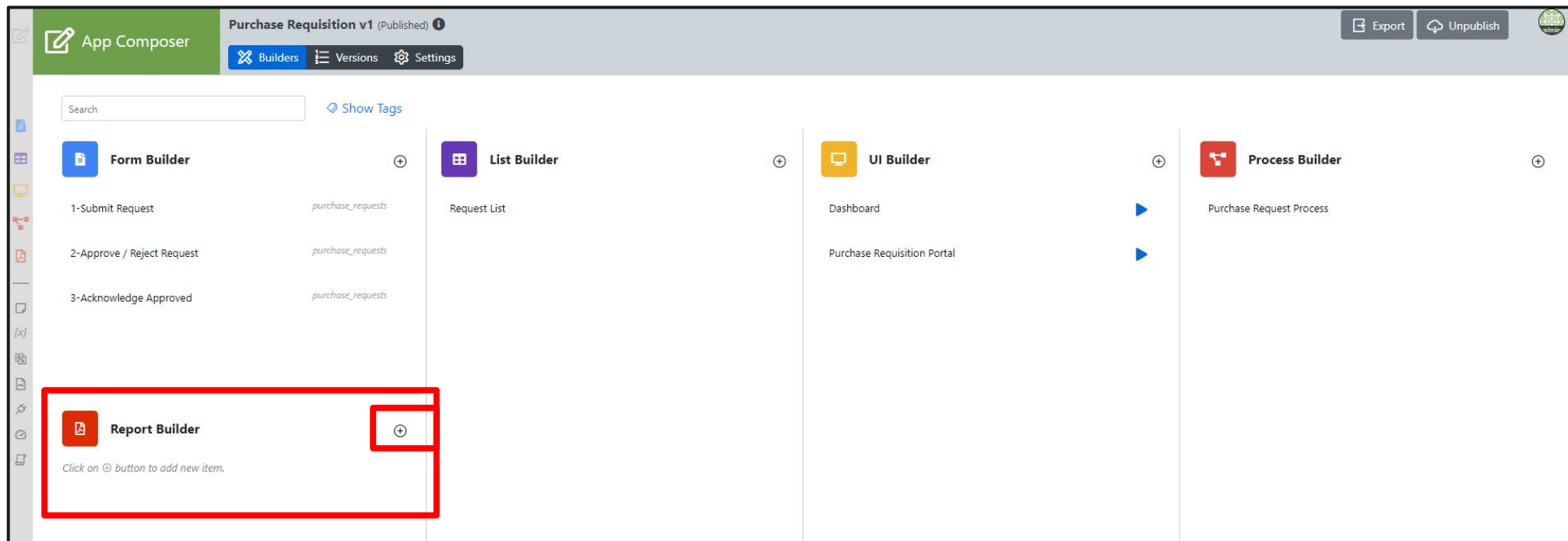
Installing Report Builder

- Download the plugin from Joget Marketplace and import it into your Joget platform via Manage Plugin.



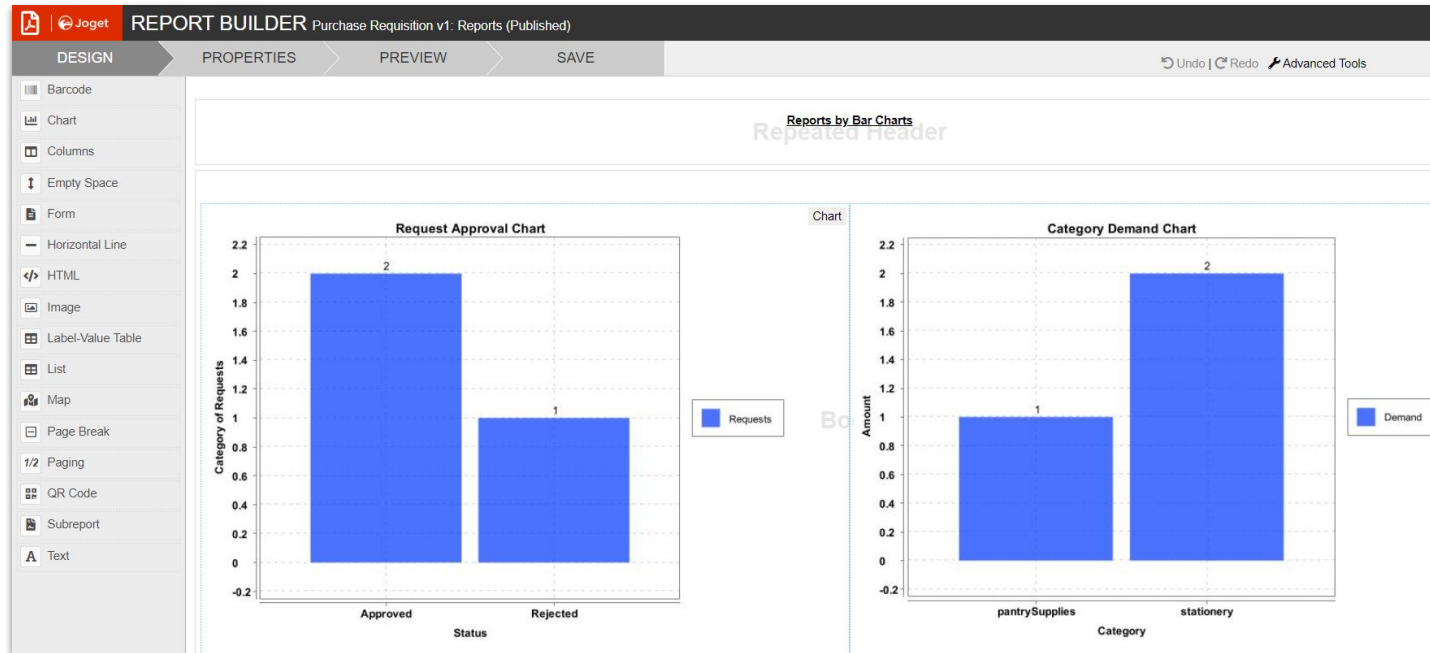
Exercise

- Continue to use the app from the previous chapters.
- Click on the + in the Report Builder in the App Composer to create a new Report



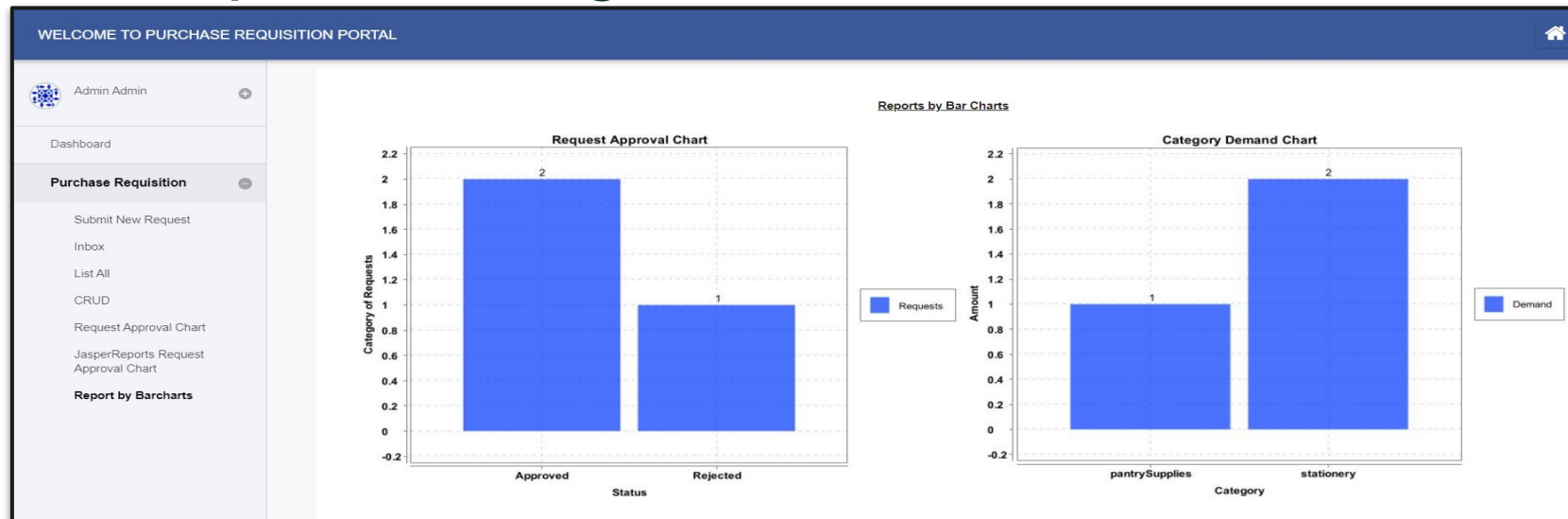
Exercise

- Create 2 columns and create 2 charts side by side.
- Use the previous 2 charts:
 - Request Approval Chart
 - Category Demand Chart



Exercise

- Now go to the UI Builder of **Purchase Requisition Portal**. Add the **Report** element and configure accordingly. Remember to save your changes!



Materials

- Completed App from all the chapters' exercises can be obtained at **14.5.jwa**.

Chapter Review

- Able to create a report by using the Report Builder for Joget apps.

Module Review

1. Introduction
2. Chart
3. JasperReports
4. Dashboard
5. Report Builder

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