

Joget DX

Introduction to Reporting

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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 Userview Menus.



Plugin Types



App Builder Components & Supported Plugin Types

Userview Builder

- Userview Menu
- Userview Permission
- Userview Theme

Datalist Builder

- Datalist Binder
- Datalist Action
- Datalist Column Formatter
- Datalist Filter Type

Process Builder

- Deadline
- Process Participant
- Process Tool
- Process Form Modifier
- Decision Tool

Form Builder

- Form Element
- Form Load Binder
- Form Store Binder
- Form Options Binder
- Form Validator
- Form Permission
- Process Form Modifier
- Post Form Submission Processing
- Generator

Addon Builder

App Platform

- Audit Trail
- Hash Variable
- Web Service

Platform

- Directory Manager
- Web Service



Chapter 2

Chart



Chart

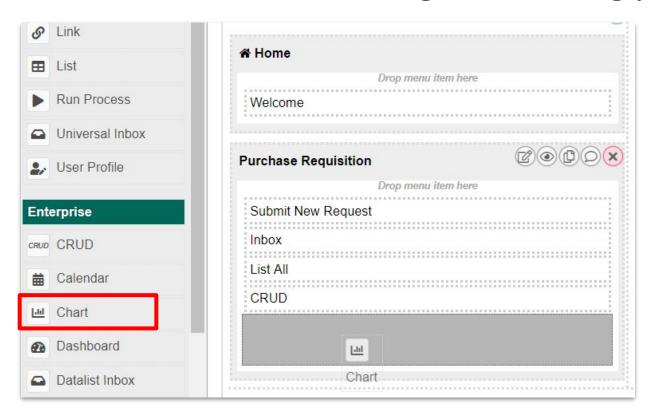
 Chart is a Userview Menu that generate graphs based on the defined data binder or datasource.

• Reference:

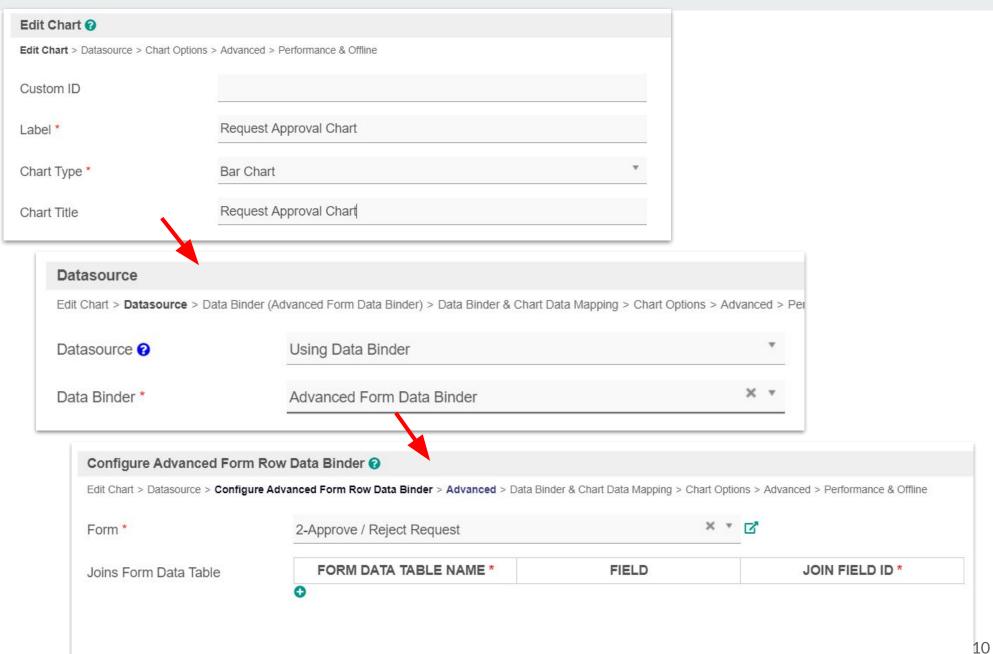
http://dev.joget.org/community/display/DX7/SQL+Chart



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









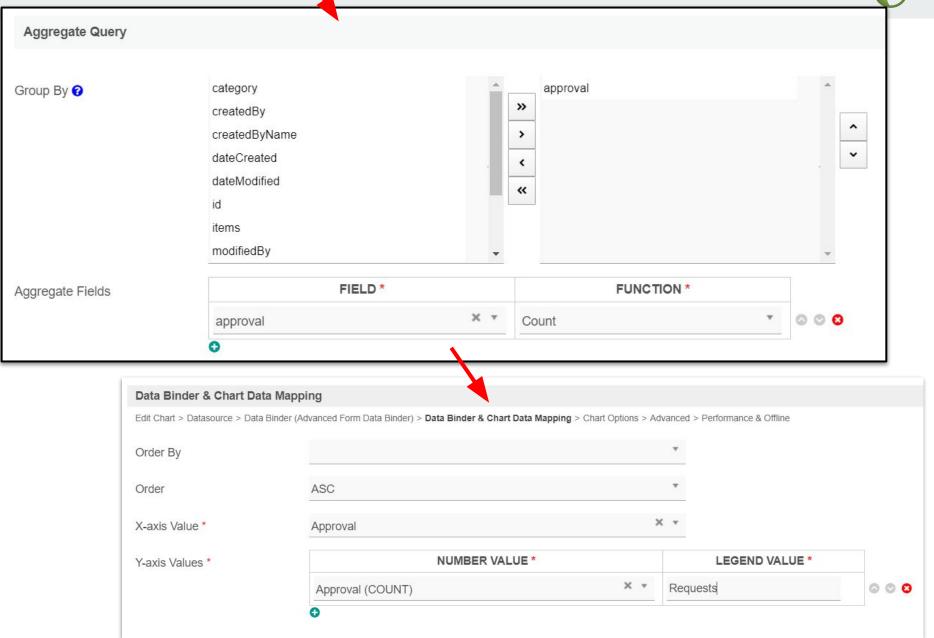
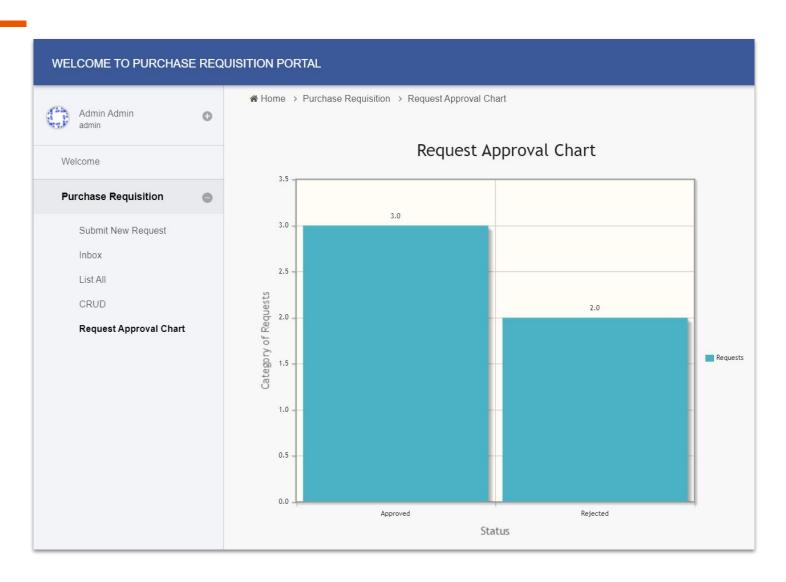




Chart Options		
Edit Chart > Datasource > Data Binder	(Advanced Form Data Binder) > Data Binder & Chart Data Mapping > Chart Options > Advanced	d > Performance & Offline
X-axis Label *	Status	
X-axis display as	Category	
Y-axis Label *	Category of Requests	
Y-axis Prefix		
Show Legend?		
Show Value Label 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" userview 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:

http://dev.joget.org/community/display/DX7/JasperReports



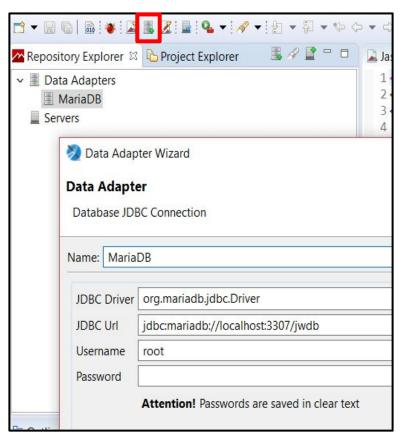
Exercise - Optional

- Continue to use the app from the previous chapter.
- Add a JasperReports element into the Userview.
- Configure the newly added element.
 - Label: JasperReports Request Approval Chart
 - JasperReport Definition (JRXML): (Obtain from file14.3.1.txt)
 - Datasource: Default Datasource



F.Y.I – For JasperSoft Studio beginners

When opening JasperSoft Studio for the first time, you will need to set up a Data Adapter. Select "Database JDBC Connection", then key in the same datasource settings as your current Joget installation.



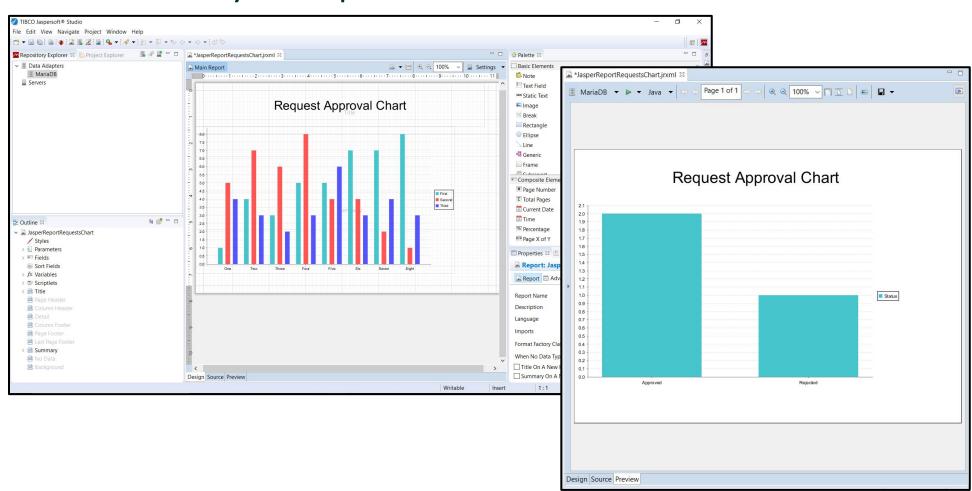


F.Y.I – For JasperSoft Studio beginners

- 2. Create a new JasperReport, select any template.
- 3. Click on Source view, copy and paste in the definition provided earlier.

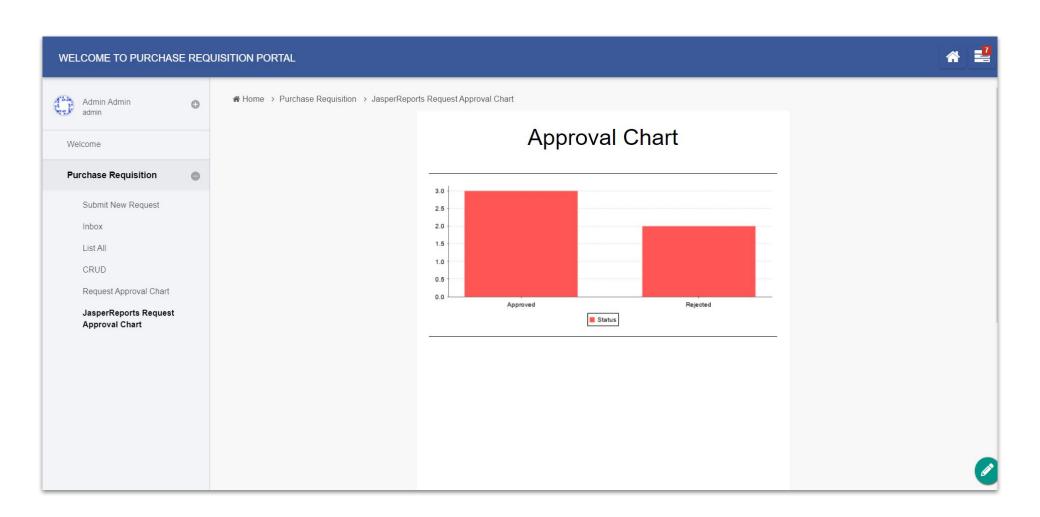


This is how your report should look like in Studio.





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 Userview in a resizable grid layout.
- See important information from various userview elements in a single glance.
- Able to edit some information on the same page!

 Reference: https://dev.joget.org/community/display/DX7/Dashboard



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

CREATE NEW USERVIEW USERVIEW DETAILS Remember to dashboard click on this! Dashboard You can use this Description feature to duplicate from another Userview. Hide Advanced Options DUPLICATE USERVIEW FROM Userview #i18n.app.welcome# to Purchase Requisition Portal App Purchase Requisition

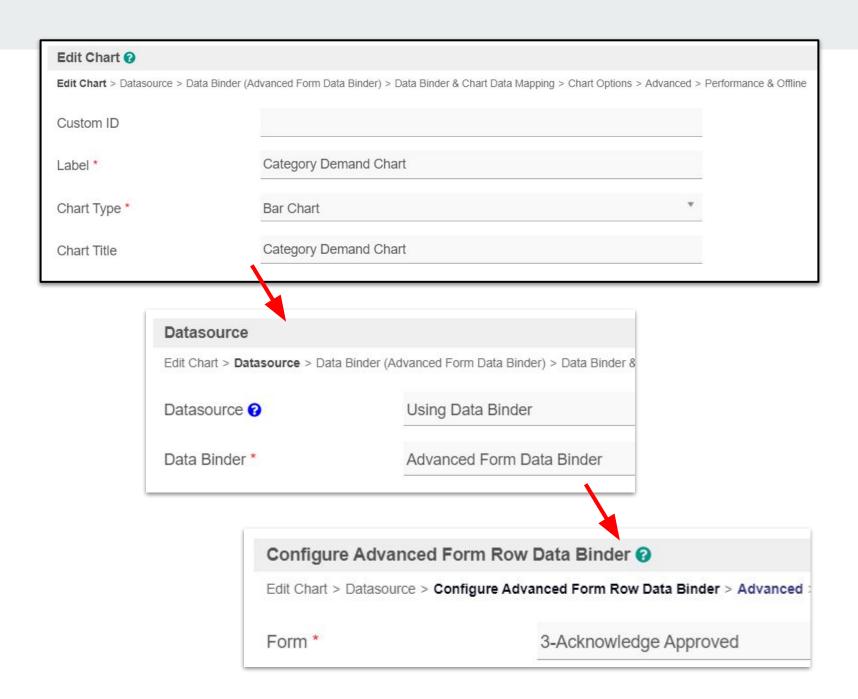


 Remove all other userview elements until only these elements remain.

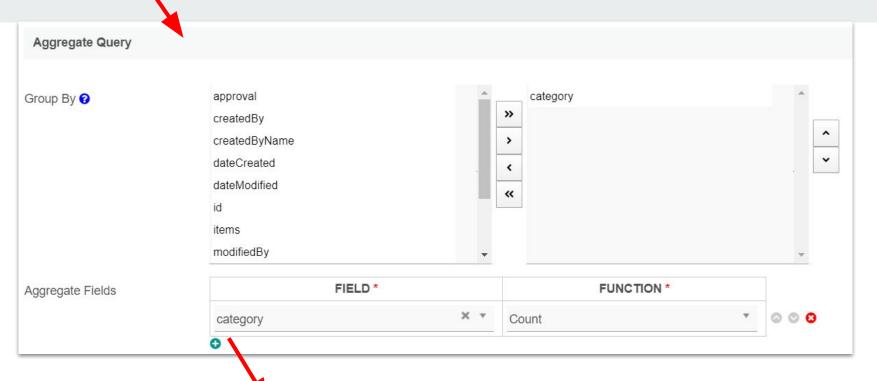
#date.EEE, d MMM yyyy# Menu Purchase Requisition Drop menu item here Inbox Request Approval Chart		Dashboard Click to edit
Purchase Requisition Drop menu item here Inbox		#date.EEE, d MMM yyyy#
Drop menu item here	Menu	
Inbox	Puro	chase Requisition
		Drop menu item here
Request Approval Chart	Int	DOX
Request Approval Chart	11111	
· · · · · · · · · · · · · · · · · · ·	Re	quest Approval Chart
	1	······································

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









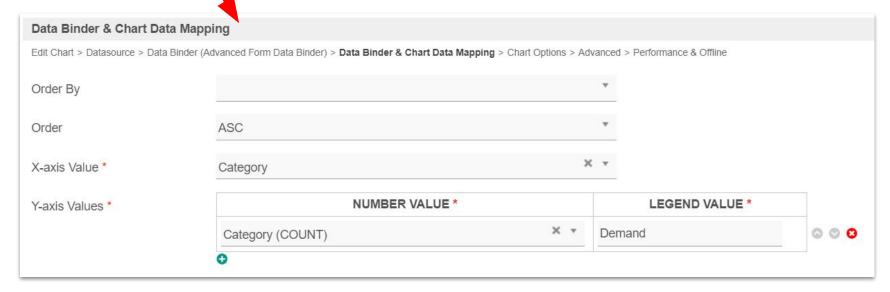




Chart Options	
Edit Chart > Datasource > Data Binder (Advanced Form Data Binder) > Data Binder & Chart Data Mapping > Chart Options > Advanced >
X-axis Label *	Category
X-axis display as	Category
Y-axis Label *	Amount
Y-axis Prefix	
Show Legend?	
Show Value Label in Chart?	$ \mathbf{Z} $
Stack Series?	
Display as Horizontal Chart?	
Width *	60%
Height *	50%



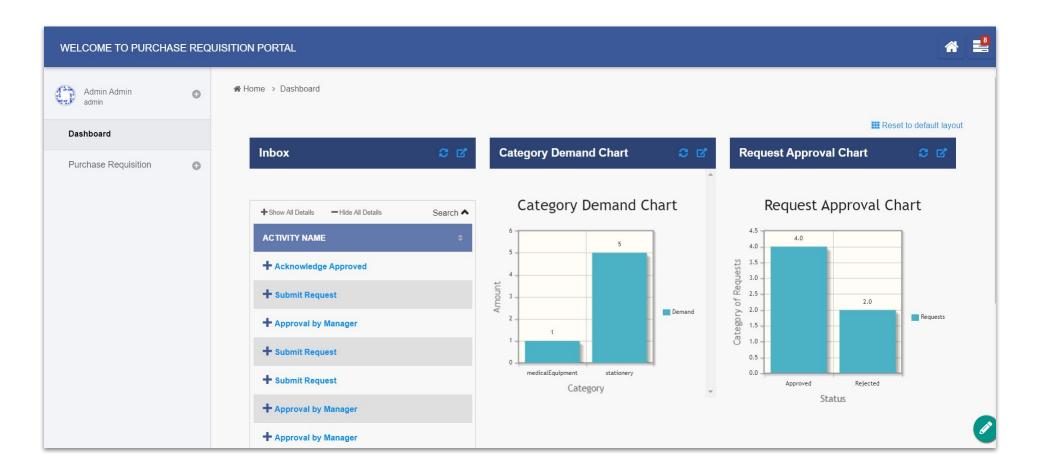
- By now, you should have just 1 inbox and 2 chart elements.
 Save the Userview.
- Now go to the Userview Builder of Purchase Requisition
 Portal. Remove the "Welcome" menu and replace with a
 Dashboard menu. Configure accordingly. Remember to save
 your changes!

Configure Dashboard ?		
Configure Dashboard > UI > Adv	ranced > Performance & Offline	
Custom ID		
Label *	Dashboard	
Configuration Mode	Using Userview	*
Userview *	Dashboard	× × E



This Is How the Dashboard Should Look Like in Runtime.







Materials

• Completed App from previous chapters' exercises can be obtained at **14.jwa**.



Chapter Review

Able to configure Dashboard for Joget apps.



Chapter 5

Report Builder



Report Builder

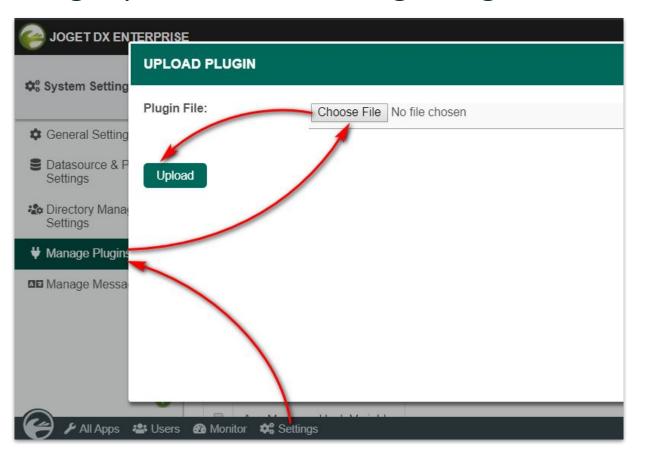
- Report Builder belongs to a new plugin type called Custom Builder.
- Allows one to create your own customized report.

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.

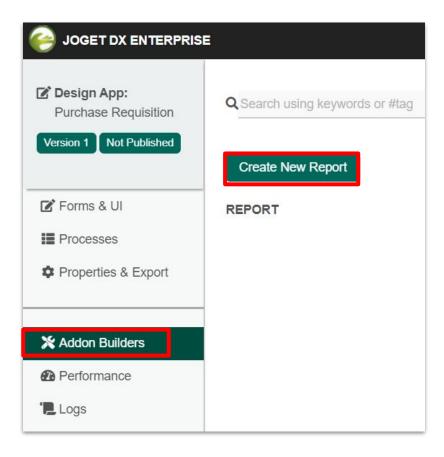




Continue to use the app from the previous chapters.

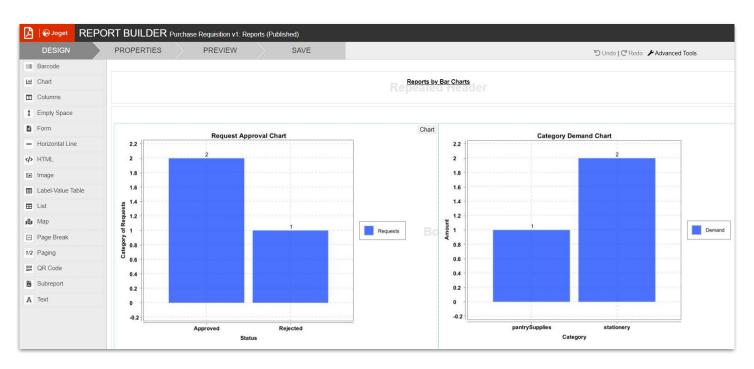
Click on the new menu Addon Builders and click on Create

Report.



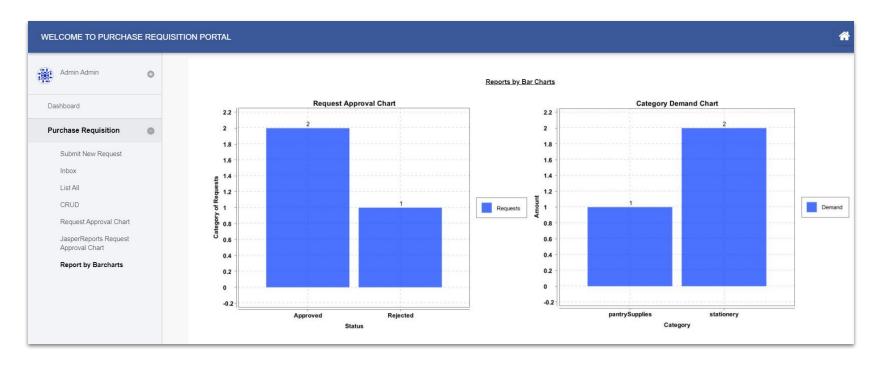


- Create 2 columns and create 2 charts side by side.
- Use the previous 2 charts:
 - Request Approval Chart
 - Category Demand Chart





Now go to the Userview 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 **14b.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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