
Joget DX

Designing Your First Datalist

 <http://facebook.com/jogetworkflow>

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Prerequisites

- Designed a form.
- Understand how basic data storage works.
- Knowledge on ER diagram or database system is recommended.

Content

1. Introduction to Datalist Builder
2. Designing Your First Datalist



Chapter 1

Introduction to Datalist Builder



Apps

Progressive Web Apps
Various Form Factors



Customer Relationship



Employee Services Portal



Expenses Claims App



Internal Service Request App



Development

Simple, Visual,
Drag and Drop.

Form Builder DESIGN FORM, PROPERTIES, DESIGN	List Builder DATALIST BUILDER, SOURCE, DESIGN	Userview Builder DESIGN USERVIEW, SETTINGS, PREVIEW	Process Builder PROCESS BUILDER - Customer Relationship Management
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User Management

- Organizations
- Groups
- Users

Monitoring

- Processes
- Application Performance
- Logging & Audit

System

- Workflow Engine
- Security and Directory
- Plugin Management

Add-on Builders

Integration API

- API JSON
- API Java
- API JavaScript



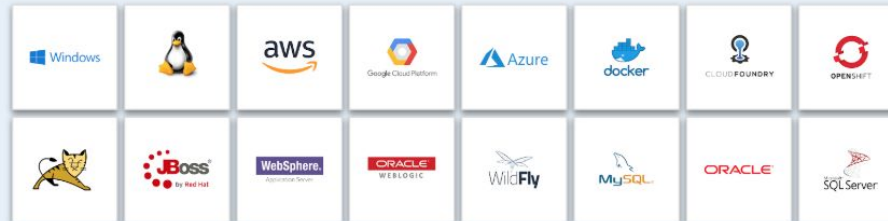
Platform

Open, Flexible and
Extensible.



Infrastructure

On-Premise, Containers,
Private / Public / Hybrid
Cloud. App Server,
DB, OS Independent.





Icons by icons8.com

Datalist Builder














- Listing of records / generating reports.
- Little/No programming knowledge needed to operate.
- Retrieving records from Form Data Table*
- Extends default capabilities of task inbox.
- Extensible functionalities through Joget's plugin architecture.

Datalist Builder





























 **DATALIST BUILDER** Purchase Requisition v1: Request List


SOURCE
DESIGN
PROPERTIES
PREVIEW
SAVE

Columns / Filters


-  approval
-  Category
-  Created By
-  Created By Name
-  Date Created
-  Date Modified
-  ID
-  items
-  Modified By
-  Modified By Name
-  Name
-  Remarks
-  Request Date

- Columns and action elements.
- Each action element is a plugin.
- Drag-and-drop.

Name	Request Date	Category	Remarks
 name	 request_date	 category	 remarks
 Unsortable	 Unsortable	 Unsortable	 Unsortable
 Visible	 Visible	 Visible	 Visible
 Exportable	 Exportable	 Exportable	 Exportable
 Default	 Default	 Default	 Default
 -	 -	 -	 -
 -	 -	 -	 -

Drag Row Actions Here

Drag Actions Here



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

Retrieving Records From Form Data Table

- What happened to all the submitted applications?

☰ TEST
🏠

[🏠 Home >](#) / [Home >](#) / [CRUD](#)

10 ▼ Show

<input type="checkbox"/>	NAME	REQUEST DATE	CATEGORY	REMARKS
<input type="checkbox"/>	Justin	04/02/2018	Medical Equipment	Edit
<input type="checkbox"/>	Jay	04/06/2018	Stationary	Edit
<input type="checkbox"/>	Paul	04/20/2018	Medical Equipment	Edit

3 items found, displaying all items.

[CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

Extends Default Capabilities of Task Inbox

Name	Request Date	Category	Remarks
name	request_date	category	remarks
Unsortable	Unsortable	Unsortable	Unsortable
Visible	Visible	Visible	Visible
Exportable	Exportable	Exportable	Exportable
Default	Default	Default	Default
-	-	-	-
-	-	-	-

Drag Actions Here

<input type="checkbox"/>	NAME	REQUEST DATE	CATEGORY	REMARKS
<input type="checkbox"/>	Justin	04/02/2018	Medical Equipment	Edit
<input type="checkbox"/>	Jay	04/06/2018	Stationary	Edit
<input type="checkbox"/>	Paul	04/20/2018	Medical Equipment	Edit

3 items found, displaying all items.
[CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

Chapter Review

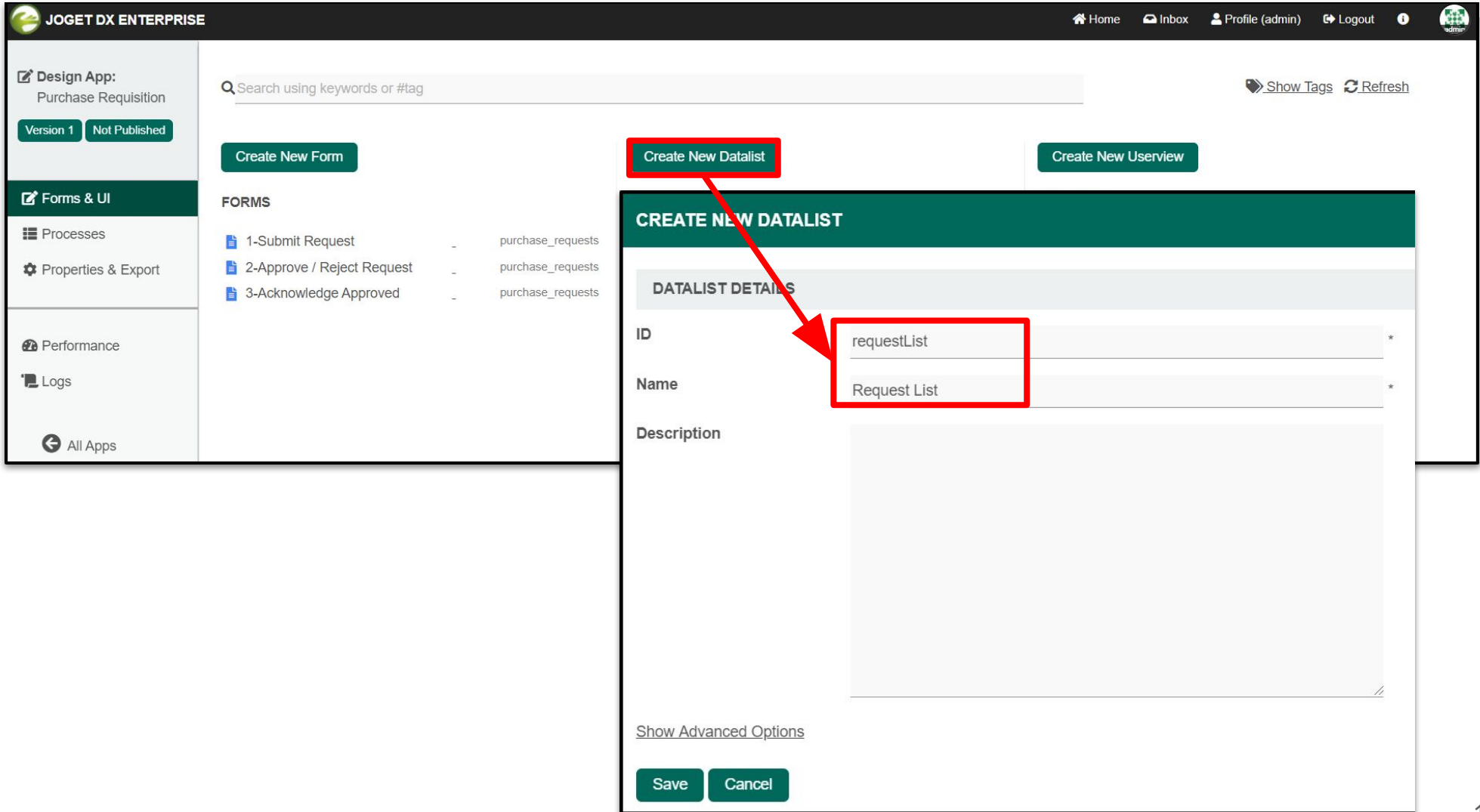
- General understanding of the Datalist Builder and its functionality.
- General understanding on its elements and its extensibility capability.



Chapter 2

Designing your First Datalist

Create a New Datalist

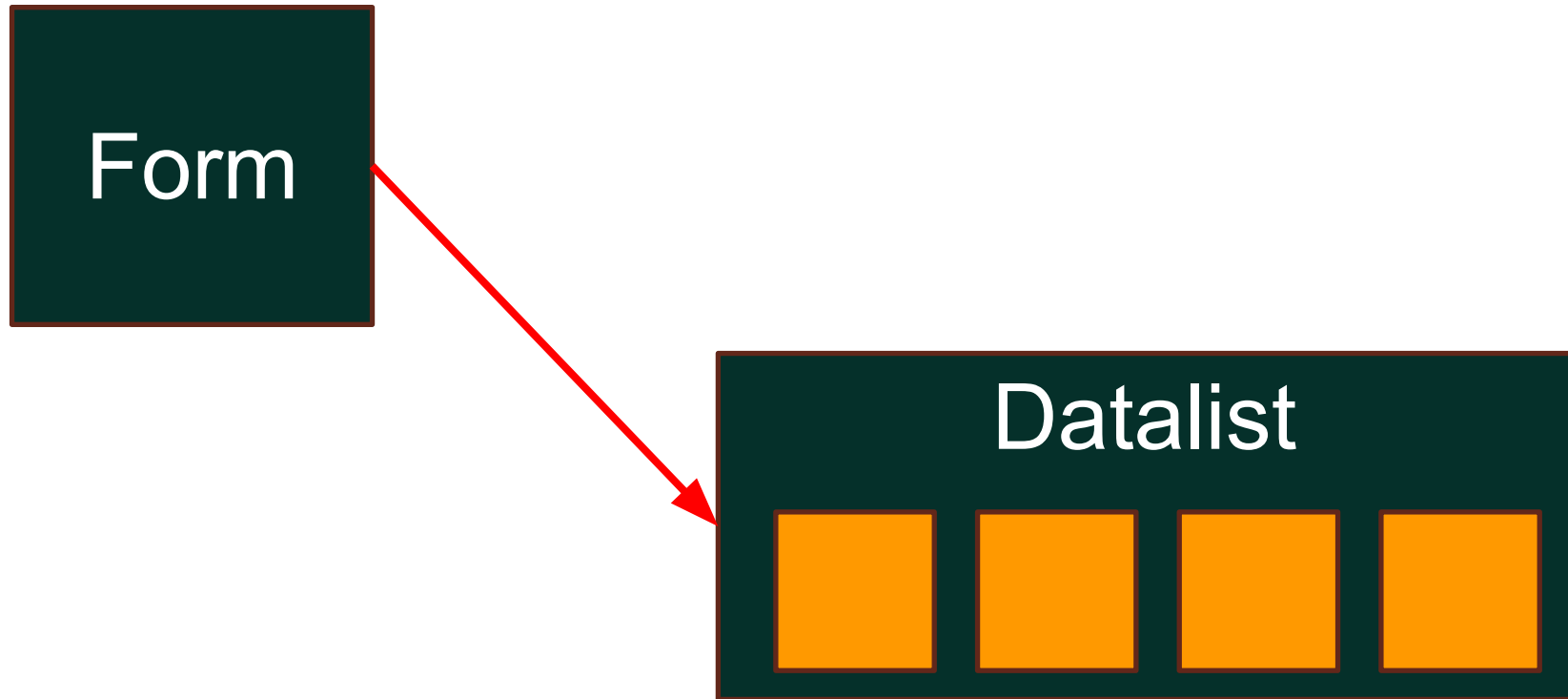


The screenshot displays the Joget DX Enterprise interface. The top navigation bar includes 'Home', 'Inbox', 'Profile (admin)', and 'Logout'. The left sidebar shows the 'Design App: Purchase Requisition' with 'Version 1' and 'Not Published' status, and a 'Forms & UI' section with options for 'Processes', 'Properties & Export', 'Performance', and 'Logs'. The main content area features a search bar and buttons for 'Create New Form', 'Create New Datalist', and 'Create New Userview'. The 'Create New Datalist' dialog box is open, showing the following details:

- DATALIST DETAILS**
- ID:** requestList
- Name:** Request List
- Description:** (Empty text area)
- Show Advanced Options:** (Link)
- Buttons:** Save, Cancel

How To Retrieve All Records Submitted?

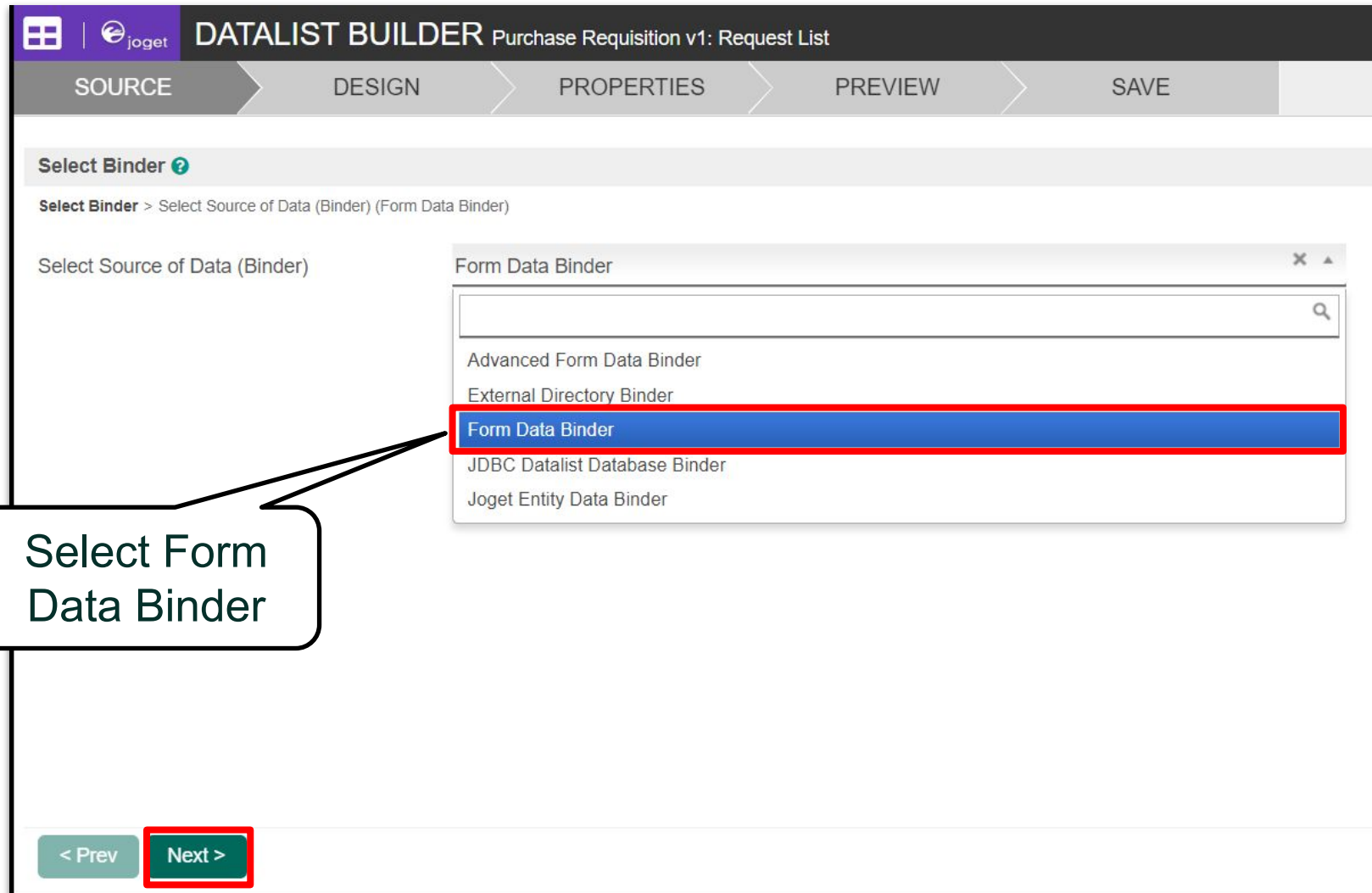
- Retrieve records using **Datalist** from selected **Form** by using a **Datalist Binder**.



Datalist Binder

- Datalist Binder is an extensible element that populates the dataset required by the Datalist Builder.
- **Form Data Binder** is the default binder used to retrieve form data saved by the default store binder (Workflow Form Binder) of a Form.

Select Binder in Datalist Builder



DATALIST BUILDER Purchase Requisition v1: Request List

SOURCE DESIGN PROPERTIES PREVIEW SAVE

Select Binder ?

Select Binder > Select Source of Data (Binder) (Form Data Binder)

Select Source of Data (Binder)

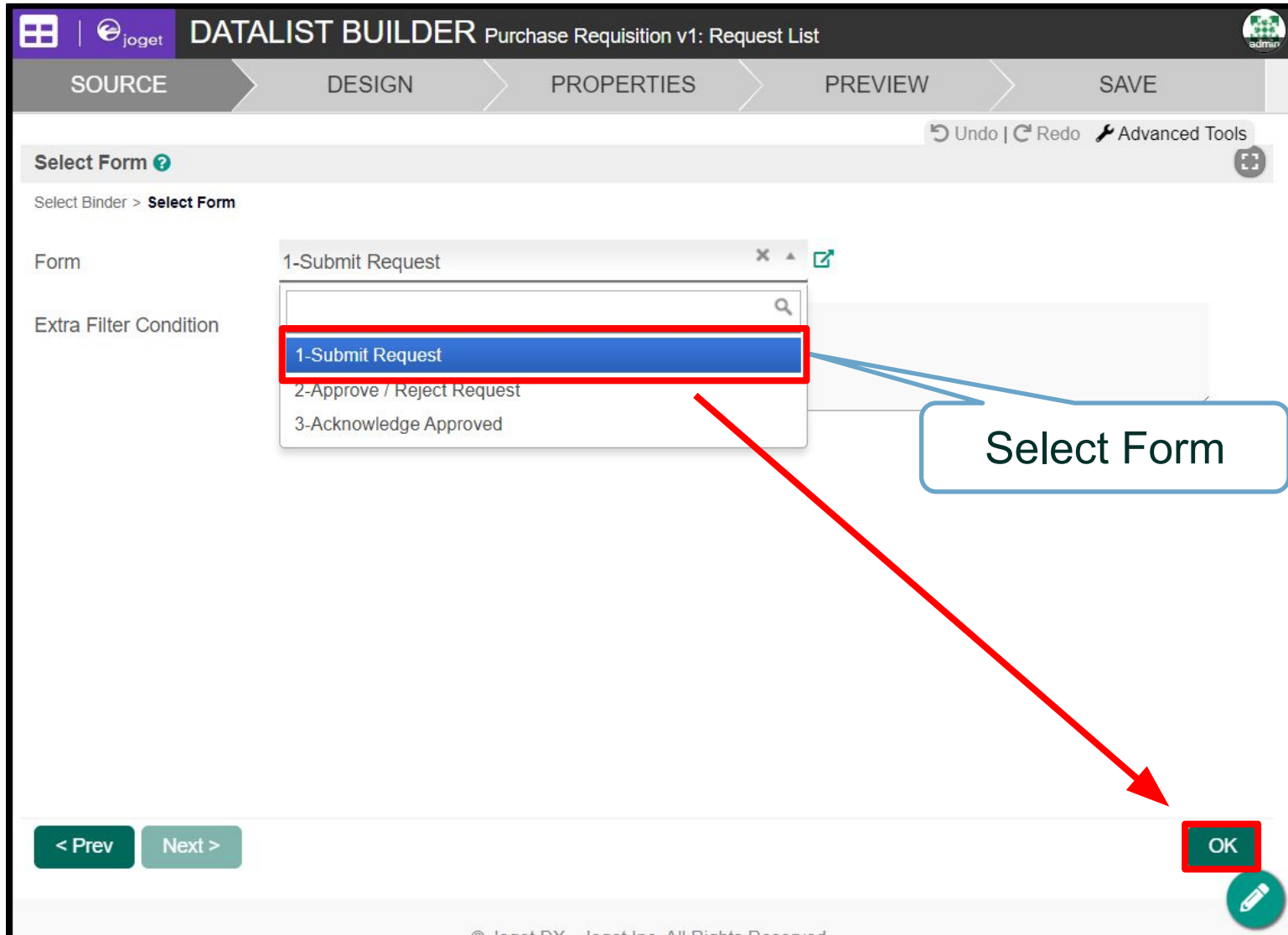
Form Data Binder

- Advanced Form Data Binder
- External Directory Binder
- Form Data Binder**
- JDBC Datalist Database Binder
- Joget Entity Data Binder

< Prev **Next >**

Select Form Data Binder

Select Form in Datalist Binder



DATALIST BUILDER Purchase Requisition v1: Request List

SOURCE DESIGN PROPERTIES PREVIEW SAVE

Undo | Redo | Advanced Tools

Select Form ?

Select Binder > **Select Form**

Form: 1-Submit Request

Extra Filter Condition:

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

< Prev Next >

OK

Drag-N-Drop Columns Into the Datalist

DATALIST BUILDER Purchase Requisition v1: Request List

SOURCE DESIGN PROPERTIES PREVIEW SAVE

Undo | Redo | Advanced Tools

Columns / Filters

- approval
- Category
- Created By
- Created By Name
- Date Created
- Date Modified
- ID
- items
- Modified By
- Modified By Name
- Name**
- Remarks
- Request Date

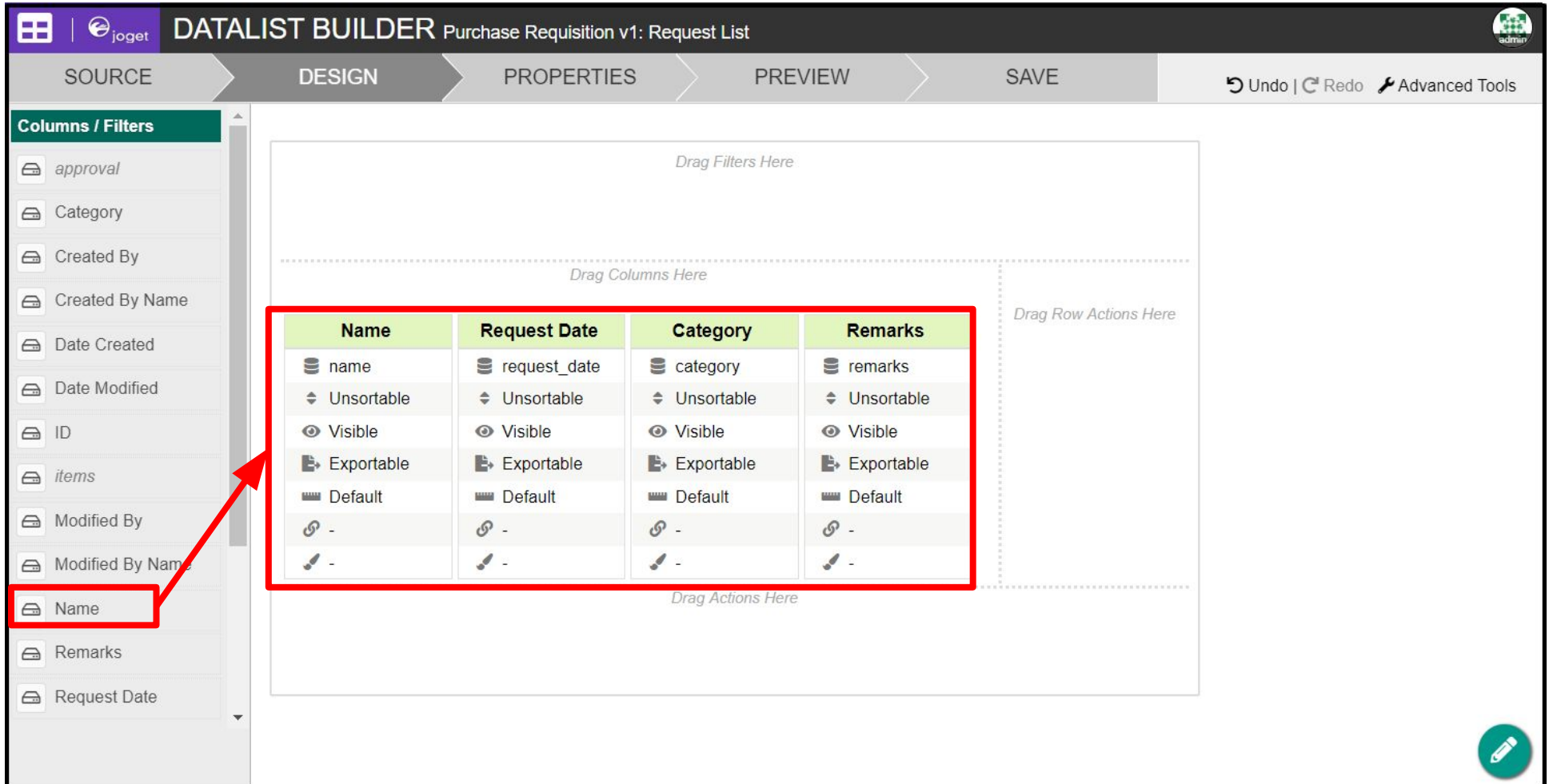
Drag Filters Here

Drag Columns Here

Name	Request Date	Category	Remarks
name	request_date	category	remarks
Unsortable	Unsortable	Unsortable	Unsortable
Visible	Visible	Visible	Visible
Exportable	Exportable	Exportable	Exportable
Default	Default	Default	Default
-	-	-	-
-	-	-	-

Drag Row Actions Here

Drag Actions Here



Adding Filter Into the Datalist

DATALIST BUILDER Purchase Requisition v1: Request List

SOURCE DESIGN PROPERTIES PREVIEW SAVE

Columns / Filters

- approval
- Category
- Created By
- Created By Name
- Date Created
- Date Modified
- ID
- items
- Modified By
- Modified By Name
- Name
- Remarks
- Request Date

Drag Filters Here

Drag Columns Here

Drag Row Actions Here

Name	Request Date	Category	Remarks
name	request_date	category	remarks

General ?

General > Type (Text Field)

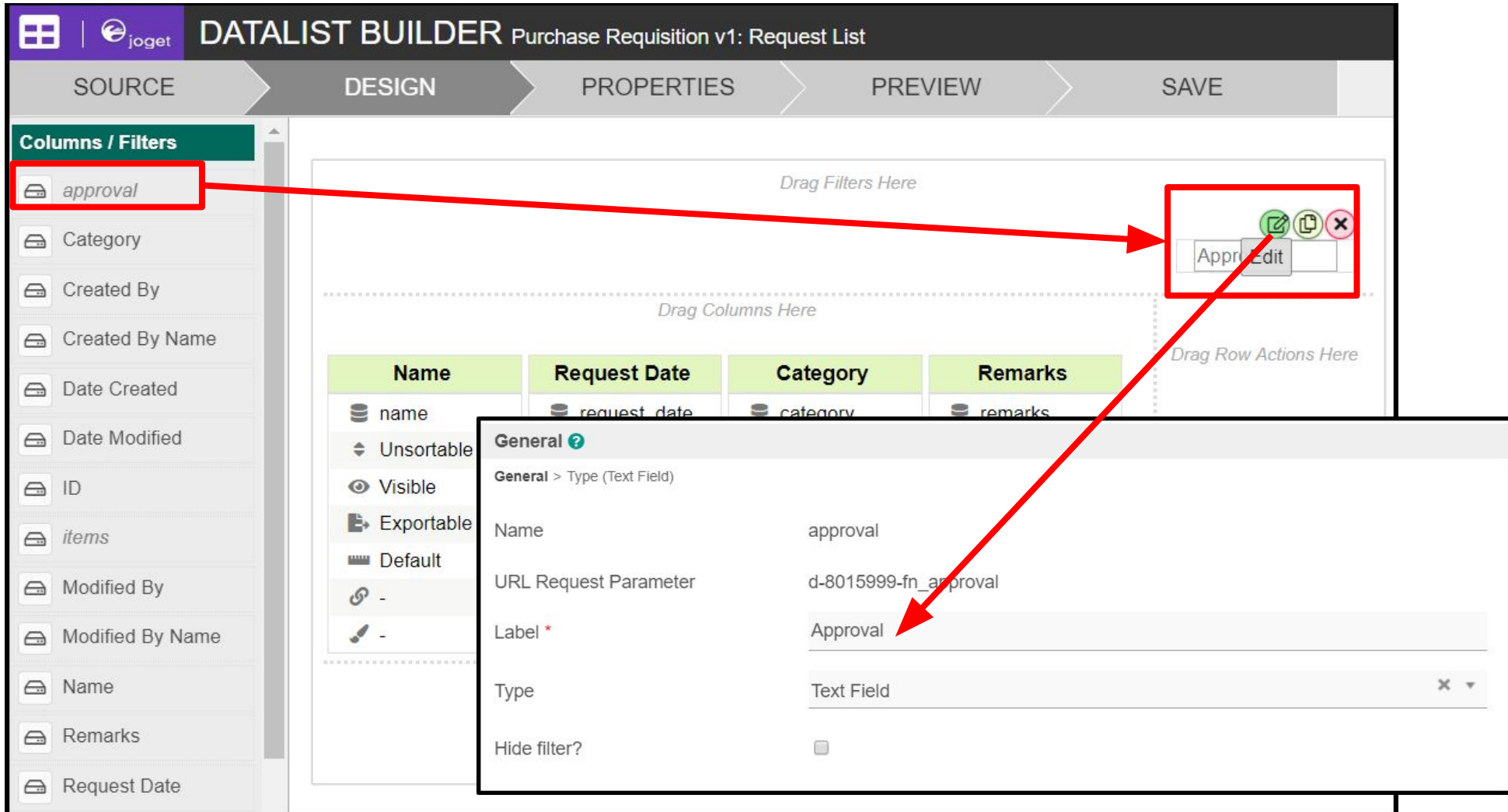
Name: approval

URL Request Parameter: d-8015999-fn_approval

Label *: Approval

Type: Text Field

Hide filter?:



Preview Datalist

☰ | e joget **DATALIST BUILDER** Purchase Requisition v1: Request List

SOURCE
DESIGN
PROPERTIES
PREVIEW
SAVE

Columns / Filters

- approval
- Category
- Created By
- Created By Name

Drag Filters Here

Appr
Edit

Drag Columns Here

Drag Row Actions Here

10 ▾
Approval
Show

	Name	Request Date	Category	Remarks
<input type="checkbox"/>	Paul	2019-12-20	medicalEquipment	
<input type="checkbox"/>	Justin	2019-12-04	medicalEquipment	
<input type="checkbox"/>	Jay	2019-12-13	stationery	

3 items found, displaying all items.

1

CSV
 Excel
 XML
 PDF

Remarks

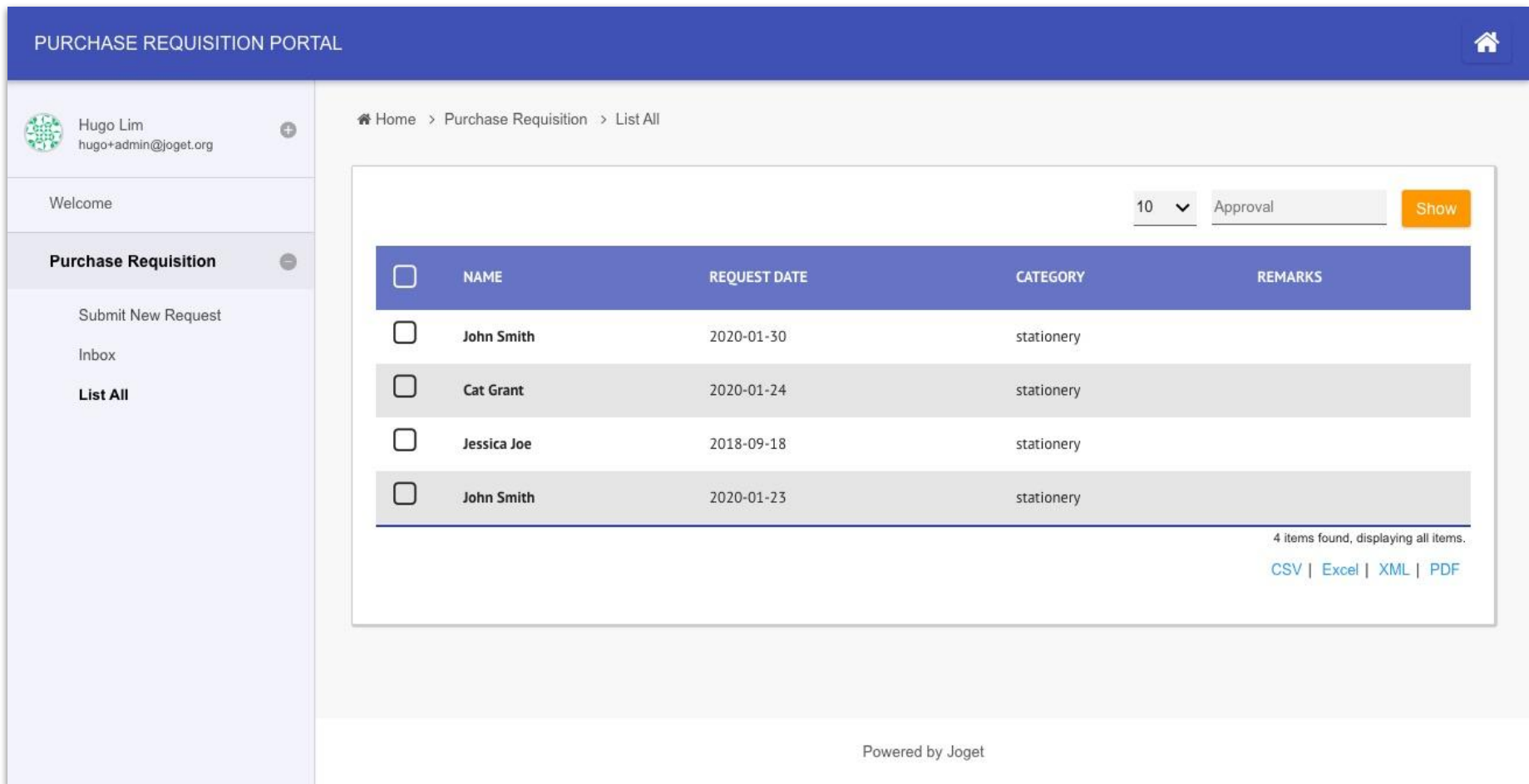
Request Date



Preview

How To Publish the Datalist?

- Datalist can be made accessible to end users via the Userview.



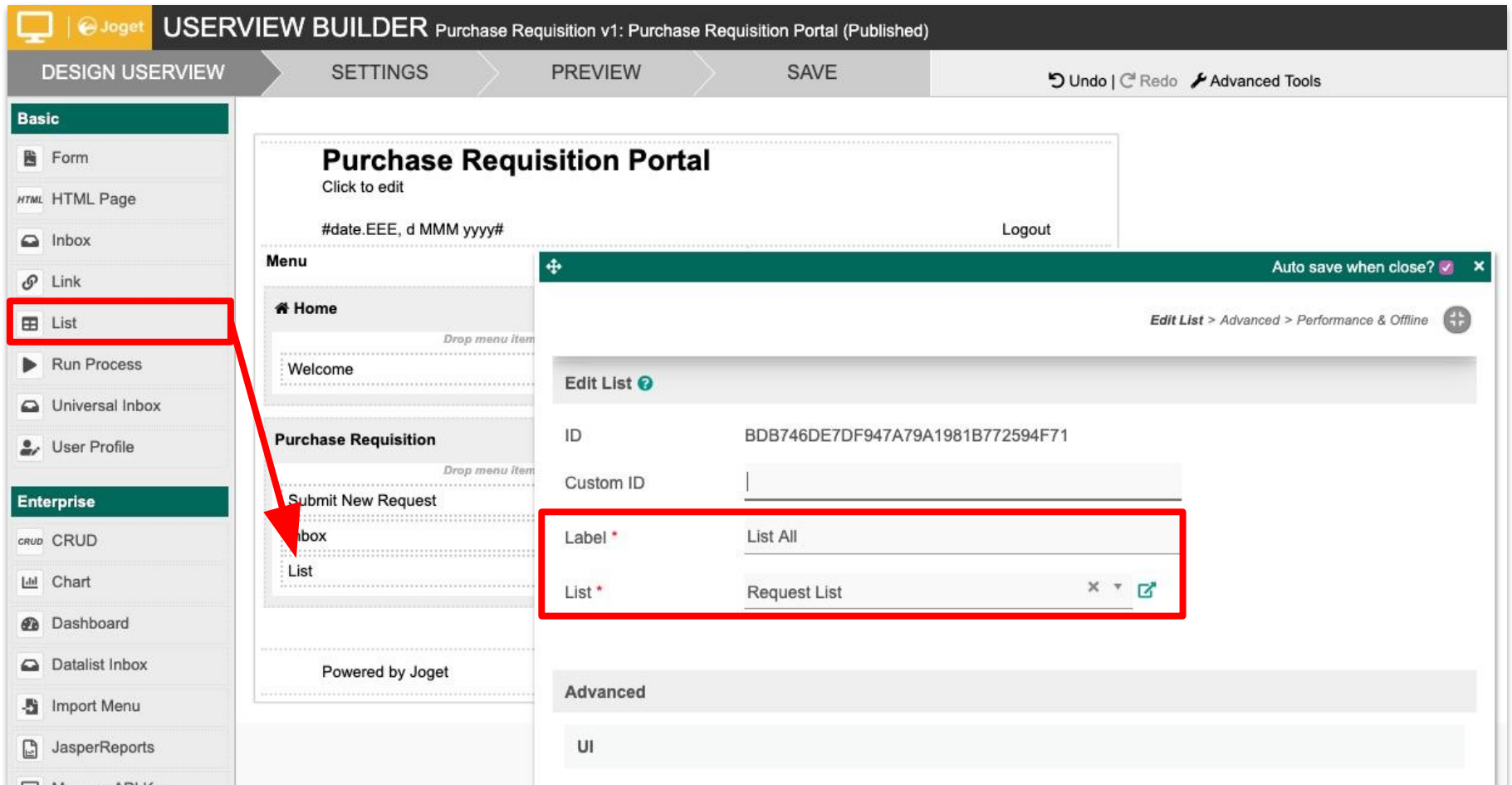
The screenshot displays the 'PURCHASE REQUISITION PORTAL' interface. The left sidebar shows the user 'Hugo Lim' with the email 'hugo+admin@joget.org' and a 'Purchase Requisition' menu with options like 'Submit New Request', 'Inbox', and 'List All'. The main content area shows a breadcrumb trail 'Home > Purchase Requisition > List All' and a table of requisitions. The table has columns for 'NAME', 'REQUEST DATE', 'CATEGORY', and 'REMARKS'. There are four rows of data, each with a checkbox in the first column. Below the table, it says '4 items found, displaying all items.' and provides links for 'CSV', 'Excel', 'XML', and 'PDF'. A 'Show' button is visible in the top right of the table area.

<input type="checkbox"/>	NAME	REQUEST DATE	CATEGORY	REMARKS
<input type="checkbox"/>	John Smith	2020-01-30	stationery	
<input type="checkbox"/>	Cat Grant	2020-01-24	stationery	
<input type="checkbox"/>	Jessica Joe	2018-09-18	stationery	
<input type="checkbox"/>	John Smith	2020-01-23	stationery	

4 items found, displaying all items.
[CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

Add List Into Userview

- Add **List Menu** in the Userview Builder and point to the datalist.



The screenshot shows the Joget Userview Builder interface for a 'Purchase Requisition Portal'. The left sidebar contains a 'Basic' section with 'List' highlighted in a red box. A red arrow points from this 'List' item to a 'Menu' configuration panel on the right. The 'Menu' panel shows a 'Purchase Requisition' section with a 'List' item added. The 'List' configuration panel is also highlighted in a red box, showing the 'Label' set to 'List All' and the 'List' set to 'Request List'.

Userveview Builder Interface:

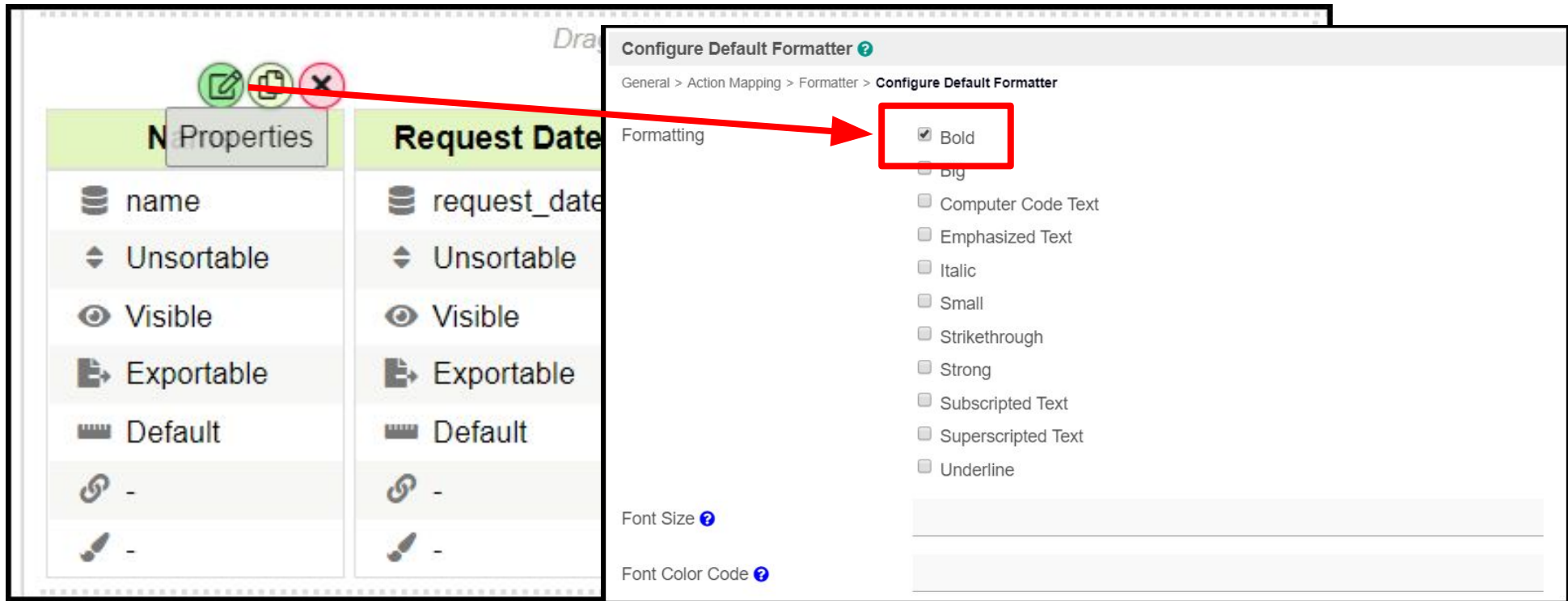
- Header:** USERVIEW BUILDER Purchase Requisition v1: Purchase Requisition Portal (Published)
- Navigation:** DESIGN USERVIEW, SETTINGS, PREVIEW, SAVE, Undo, Redo, Advanced Tools
- Left Sidebar (Basic):** Form, HTML Page, Inbox, Link, **List**, Run Process, Universal Inbox, User Profile
- Left Sidebar (Enterprise):** CRUD, Chart, Dashboard, Datalist Inbox, Import Menu, JasperReports
- Main Content:**
 - Purchase Requisition Portal:** Click to edit, #date.EEE, d MMM yyyy#, Logout
 - Menu:** Home, Welcome, Purchase Requisition, Submit New Request, Inbox, List
- Right Panel (Edit List):**
 - ID:** BDB746DE7DF947A79A1981B772594F71
 - Custom ID:** [Input Field]
 - Label *:** List All
 - List *:** Request List

Exercise 1

- For the search filter “Approval”, configure it to become a dropdown list.
 - Mouse over to the existing filter, click **Edit**.
 - Go to the next tab.
 - Choose **Select Box**.
 - Fill up the options.

Exercise 2

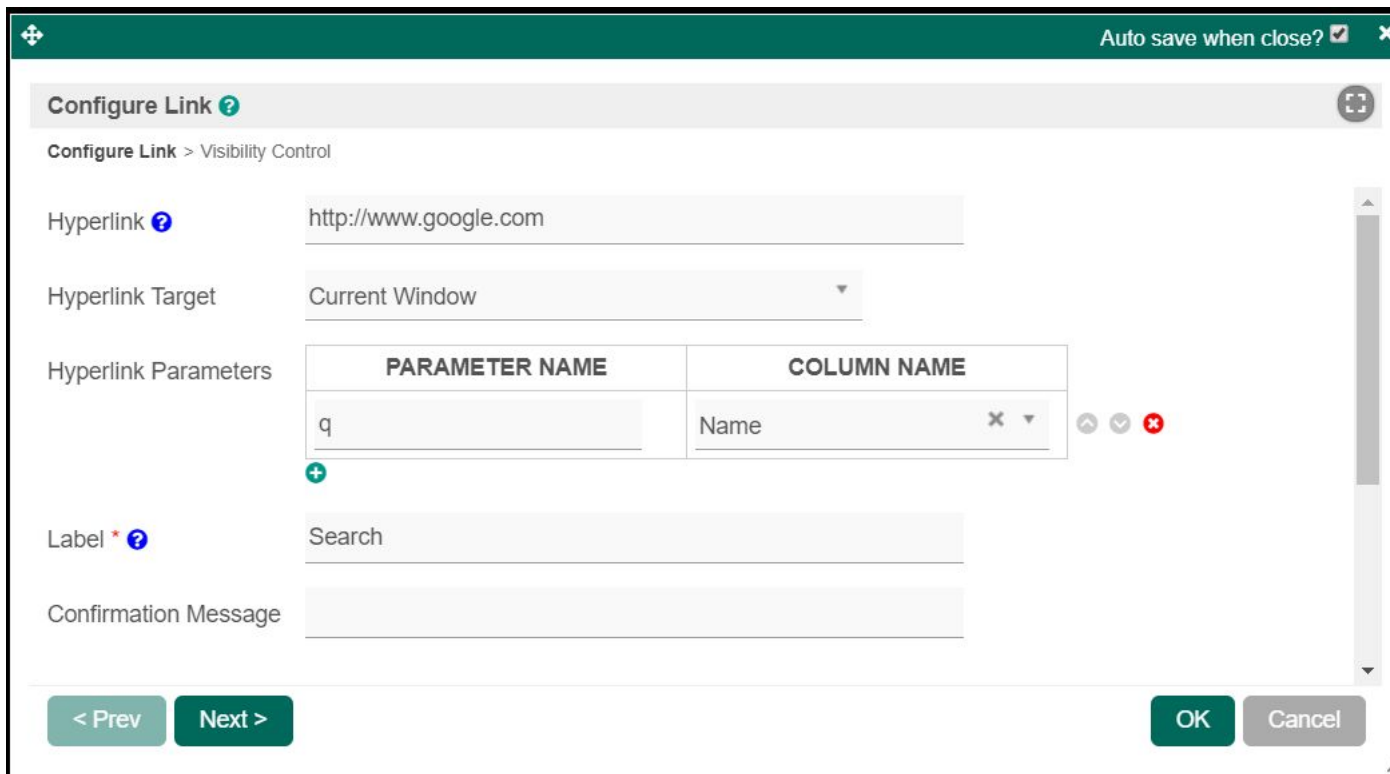
- Make the **Name** column bold by configuring its **Properties**.
- **Properties -> Formatter -> Default Formatter -> Bold**



The screenshot shows the 'Configure Default Formatter' dialog box in the Joget configuration tool. The dialog is titled 'Configure Default Formatter' and has a breadcrumb trail: 'General > Action Mapping > Formatter > Configure Default Formatter'. The 'Formatting' section is active, showing a list of formatting options with checkboxes. The 'Bold' option is checked and highlighted with a red box. A red arrow points from the 'Properties' tab in the left sidebar to the 'Bold' checkbox. Other formatting options include Big, Computer Code Text, Emphasized Text, Italic, Small, Strikethrough, Strong, Subscripted Text, Superscripted Text, and Underline. At the bottom, there are fields for 'Font Size' and 'Font Color Code'.

Exercise 3

- Add a **Datalist Row Action – Hyperlink**.
- Point to a favorite link of yours and configure the parameters to include one of the columns' ID.



Configure Link ? Auto save when close? ×

Configure Link > Visibility Control

Hyperlink ?

Hyperlink Target

Hyperlink Parameters

PARAMETER NAME	COLUMN NAME
<input type="text" value="q"/>	<input type="text" value="Name"/> × ▼

+ ↺ ↻ +

Label * ?

Confirmation Message

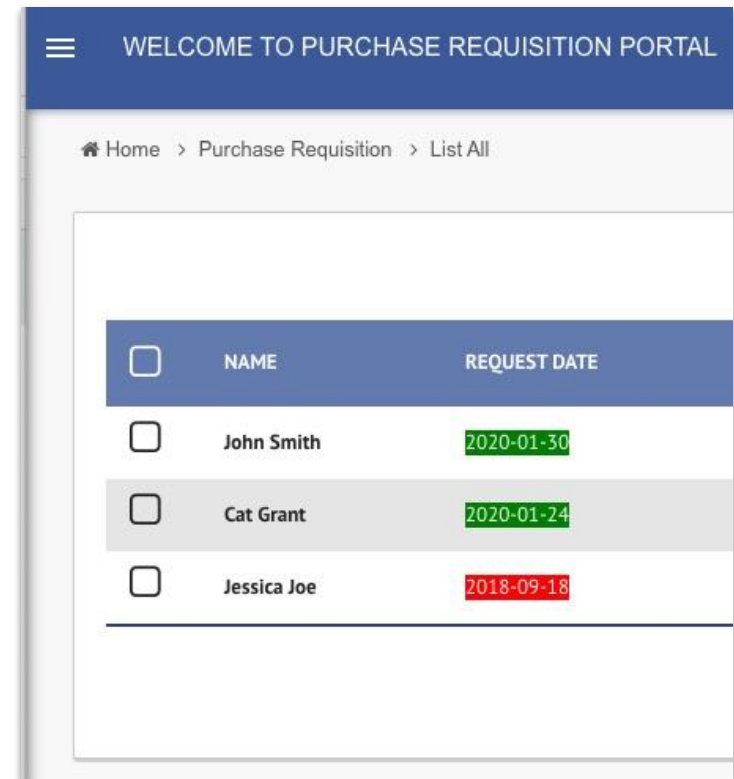
< Prev Next > OK Cancel

Exercise 4

- Add **Bean Shell Formatter** to the "Request Date" column.
- Show date in different background color if the date is in the past.

```
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;

SimpleDateFormat formatter = new
SimpleDateFormat("yyyy-MM-dd");
try {
    Date date = formatter.parse(value);
    Calendar cal = Calendar.getInstance();
    if (date.before(cal.getTime())) {
        return "<span style=\"color: white;
background-color: red\">" + value + "</span>";
    } else {
        return "<span style=\"color: white;
background-color: green\">" + value + "</span>";
    }
} catch (Exception e) {
}
```



WELCOME TO PURCHASE REQUISITION PORTAL

Home > Purchase Requisition > List All

<input type="checkbox"/>	NAME	REQUEST DATE
<input type="checkbox"/>	John Smith	2020-01-30
<input type="checkbox"/>	Cat Grant	2020-01-24
<input type="checkbox"/>	Jessica Joe	2018-09-18

Extra Note

- Change the filter type from text to selectbox.
- This will then display the column label instead of ID.

Change this into SelectBox to display "Label" instead of "ID".

10

Cereal

Show

<input type="checkbox"/>	FOOD TYPE	QUANTITY	
<input type="checkbox"/>	Cereal	3	Edit
<input type="checkbox"/>	Cereal	5	Edit

2 items found, displaying all items.

[CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

New

Delete

Chapter Review

- Learn on how to create a Datalist.
- Derive dataset from existing Form Data Table through the use of Datalist Data Binder.
- Make use of Datalist Filters, Formatters, Actions

Module Review

1. Introduction to Datalist Builder
2. Designing Your First Datalist

Recommended Further Learning

- Embedding Datalist into a Userview for end-user presentation.

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