



Designing Your First Datalist

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

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 I

Introduction to Datalist Builder

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 RADS's plugin architecture.

Datalist Builder

RAD Service

DATALIST BUILDER purchaseRequisition v1: Request List (Published)

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

Actions

• Columns and action elements.

• Each action element is a plugin.

• Drag-and-drop.

Name	Request Date	Category	Remarks
<div>name</div>	<div>request_date</div>	<div>category</div>	<div>remarks</div>
<div>Unsortable</div>	<div>Unsortable</div>	<div>Unsortable</div>	<div>Unsortable</div>
<div>Visible</div>	<div>Visible</div>	<div>Visible</div>	<div>Visible</div>
<div>Exportable</div>	<div>Exportable</div>	<div>Exportable</div>	<div>Exportable</div>
<div>Default</div>	<div>Default</div>	<div>Default</div>	<div>Default</div>
<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>
<div>-</div>	<div>-</div>	<div>-</div>	<div>-</div>

Drag Actions Here

Drag Row Actions Here

6

Retrieving Records From Form Data Table

- What happened to all the submitted applications?

TEST

Home > / Home > / CRUD

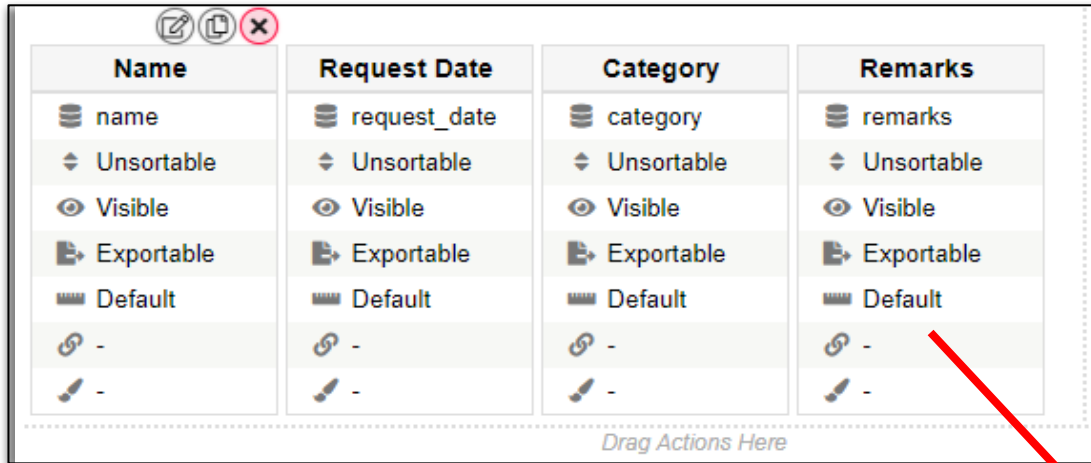
10 Show

<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

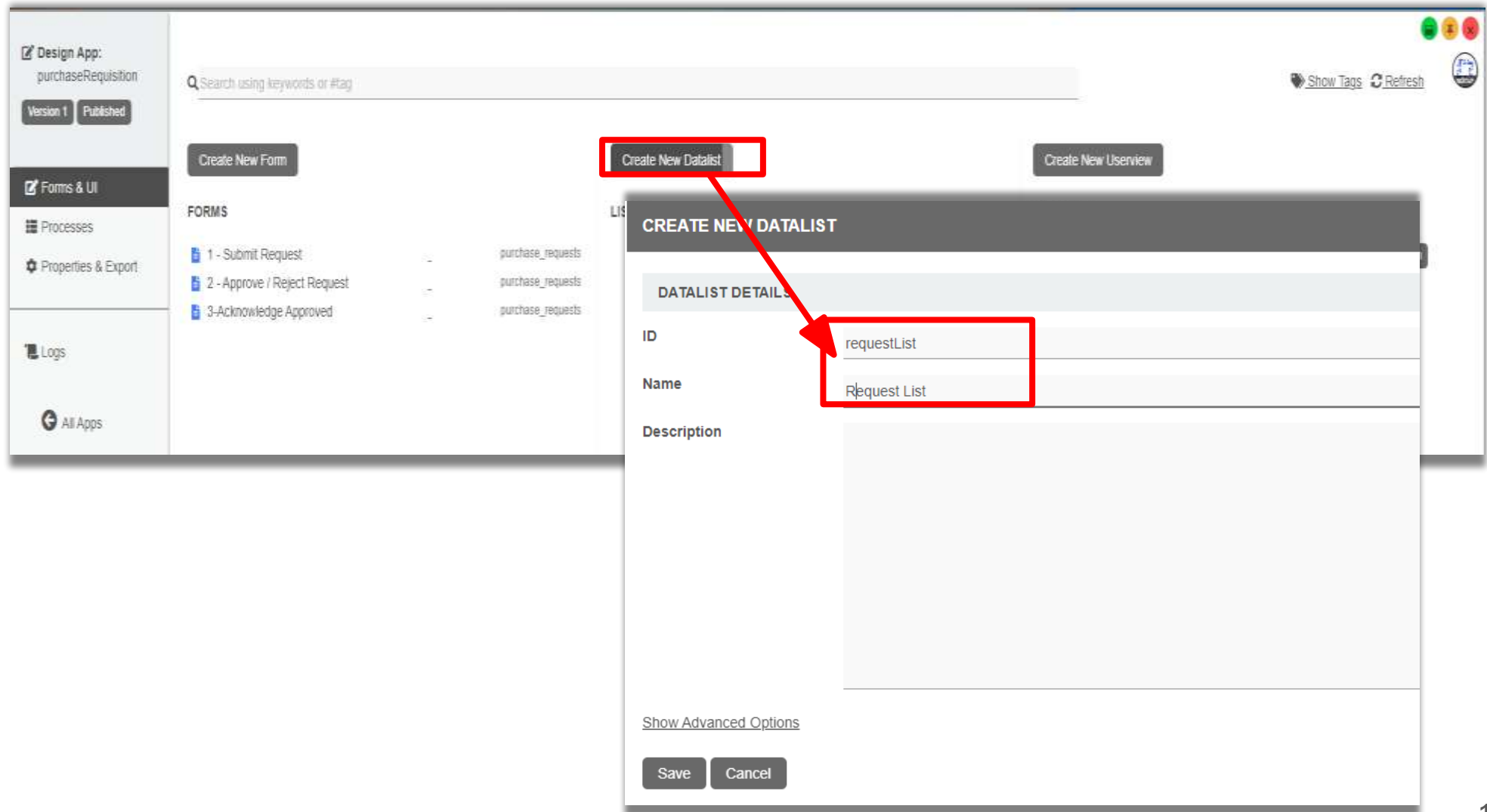
- General understanding of the Datalist Builder and its functionality.
- General understanding on its elements and its extensibility capability.



Chapter 2

Designing your First Datalist

Create a New Datalist



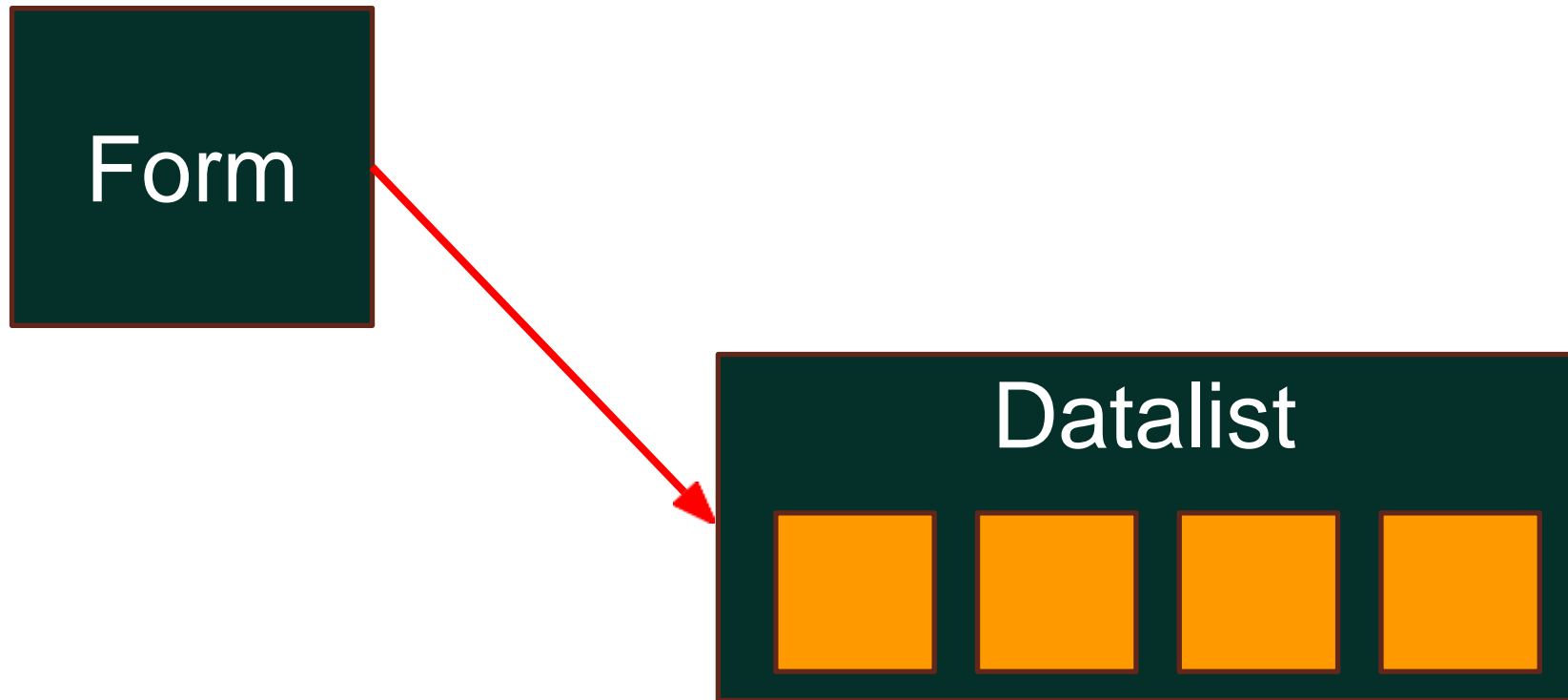
The screenshot displays the RAD Service interface. On the left, a sidebar contains navigation options: Design App (purchaseRequisition), Forms & UI, Processes, Properties & Export, Logs, and All Apps. The main content area shows a search bar and buttons for 'Create New Form', 'Create New Datalist', and 'Create New Userview'. The 'Create New Datalist' dialog box is open, showing the following fields:

- ID**: requestList
- Name**: Request List
- Description**: (Empty text area)

At the bottom of the dialog box, there is a link for [Show Advanced Options](#) and buttons for **Save** and **Cancel**.

How To Retrieve All Records Submitted?

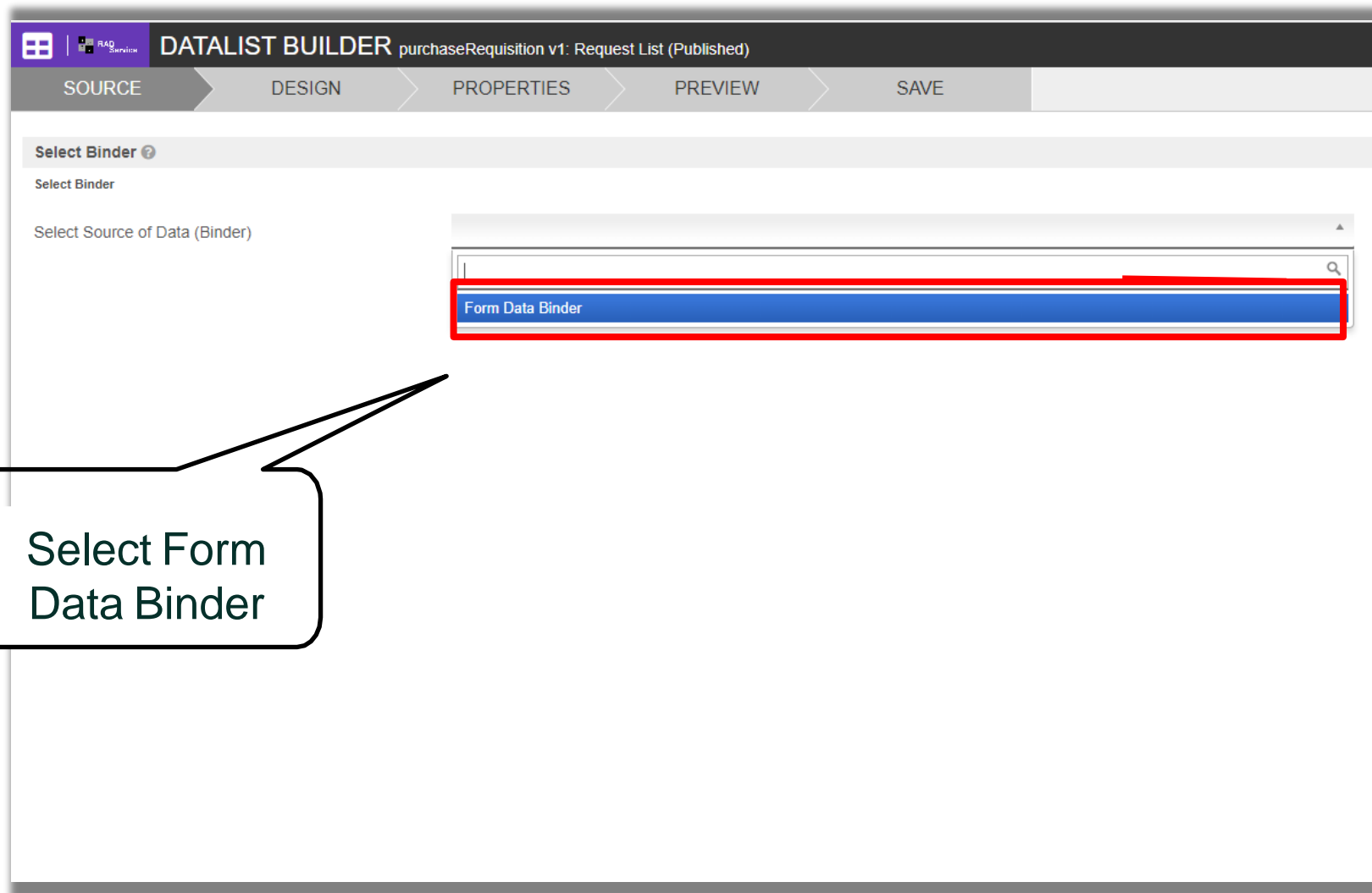
- Retrieve records using **Datalist** from selected **Form** by using a **Datalist Binder**.



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



Select Form in Datalist Binder

The screenshot shows the 'DATALIST BUILDER' interface for 'purchaseRequisition v1: Request List (Published)'. The 'SOURCE' tab is active. The 'Select Form' dialog is open, showing a list of forms. The first form, '1 - Submit Request', is highlighted in blue and enclosed in a red box. A blue callout box labeled 'Select Form' points to this selection. A red arrow points from the red box to the 'OK' button at the bottom right, which is also highlighted with a red box. The 'OK' button is a small grey rectangle with the text 'OK' in black. At the bottom left, there are two buttons: '< Prev' and 'Next >'. The 'Form' label is on the left, and the 'Extra Filter Condition' label is below it. The list of forms is titled '1 - Submit Request' and contains three items: '1 - Submit Request', '2 - Approve / Reject Request', and '3 - Acknowledge Approved'.

DATALIST BUILDER purchaseRequisition v1: Request List (Published)

SOURCE DESIGN PROPERTIES PREVIEW SAVE

Select Form ?

Select Binder > Select Form

Form

Extra Filter Condition

1 - Submit Request

1 - Submit Request

2 - Approve / Reject Request

3 - Acknowledge Approved

Select Form

OK

< Prev Next >

Drag-N-Drop Columns Into the Datalist

DATALIST BUILDER purchaseRequisition v1: Request List (Published)

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

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 purchaseRequisition v1: Request List (Published)

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?: ☐

The screenshot illustrates the 'DATALIST BUILDER' interface for 'purchaseRequisition v1: Request List (Published)'. It shows the 'DESIGN' tab with a 'Columns / Filters' list on the left. The 'approval' filter is highlighted with a red box. A red arrow points from this box to a red box in the 'Drag Filters Here' area, which contains an 'Approval' filter with edit, copy, and delete icons. Another red arrow points from the 'Label' field in the 'General' properties panel to the 'Approval' filter in the 'Drag Filters Here' area.

Preview Datalist

DATALIST BUILDER purchaseRequisition v1: Request List (Published)

SOURCE DESIGN PROPERTIES **PREVIEW** SAVE

Columns / Filters

- approval
- Category
- Created By
- Created By Name

Drag Filters Here

Drag Columns Here

Drag Row Actions Here

10 Approval Show

<input type="checkbox"/>	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. On the left is a sidebar with the user profile 'Hugo Lim' (hugo+admin@joget.org) and a 'Purchase Requisition' section containing links for 'Submit New Request', 'Inbox', and 'List All'. The main content area shows a breadcrumb trail 'Home > Purchase Requisition > List All'. Above a table, there are filters for '10' items and 'Approval' status, with a 'Show' button. The table lists four requisitions, all categorized as 'stationery'. At the bottom right of the table, it states '4 items found, displaying all items.' and provides links for 'CSV', 'Excel', 'XML', and 'PDF' exports. The footer indicates 'Powered by Joget'.

	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	

Add List Into Userview

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

The screenshot displays the 'USERVIEW BUILDER' interface for 'purchaseRequisition v1: #i18n.app.welcome# to Purchase Requisition Portal (Published)'. The interface includes a left sidebar with a 'Basic' tab and a list of components: Form, HTML Page, Inbox, Link, List, Run Process, Universal Inbox, and User Profile. The 'List' component is highlighted with a red box, and a red arrow points to its addition in the main workspace. The main workspace shows a menu structure with 'Home', 'Welcome', 'Purchase Requisition', 'Submit New Request', 'Inbox', and 'List'. The 'List' item is being added to the 'Purchase Requisition' section. A modal window titled 'Edit List' is open, showing fields for 'ID' (E706AA7BE1E343058956D91B31175409), 'Custom ID', 'Label *' (List All), and 'List *' (Request List). The 'List *' field is also highlighted with a red box. The modal window includes an 'Auto save when close?' checkbox and a 'Close' button. The bottom of the interface shows a 'Powered by' link and an 'Advanced' section with a 'UI' tab.

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 illustrates the process of configuring the 'Name' column's default formatter. On the left, a table with two columns, 'Name' and 'Request D', is shown. The 'Name' column's properties are highlighted, and a red arrow points from the 'Formatter' property to the 'Configure Default Formatter' dialog box on the right.

The 'Configure Default Formatter' dialog box shows the 'Formatting' section with the 'Bold' option selected and highlighted by a red box. Other formatting options listed include Big, Computer Code Text, Emphasized Text, Italic, Small, Strikethrough, Strong, Subscripted Text, Superscripted Text, and Underline.

Below the formatting options, there are input 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.

Auto save when close? ☐ X

Configure Link ?

Hyperlink ?

Hyperlink Target

Hyperlink Parameters

PARAMETER NAME	COLUMN NAME
q	Name

Label * ?

Confirmation Message

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) {
```

	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.

Stay Connected With RADS

- rads.purwana.net
- <https://github.com/radservice/rad-community>