

RADS

Improving Your Form Design & Presentation

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



Prerequisites

1. Good understanding on the basic functionality of the Form Builder.



Content

- 1. Introduction
- 2. Grid
- 3. Form Grid
- 4. Multirow Form Binder
- 5. List Grid
- 6. CRUD
- 7. Custom HTML
- 8. Using Advanced Tool's Permission



Chapter I

Introduction



Introduction

- Learning about more RADS plugins/elements to improve your form design and presentation.
- In this module, we will be covering the following elements.
 - 1. Grid (Form Element)
 - Form Grid (Form Element)
 - 3. Multirow Form Binder (Form Binder)
 - 4. List Grid (Form Element)
 - 5. CRUD (Userview Menu)
 - 6. Custom HTML (Form Element)



List of Available Elements

- Check out https://docs.rads.purwana.net/Form+Builder for the list of **Form** related elements (Form Element, Form Validator, Form Binder, Form Options Binder).
- Check out https://docs.rads.purwana.net/Userview+Builder
 for the list of **Userview** related elements.



Chapter 2

Grid



Grid

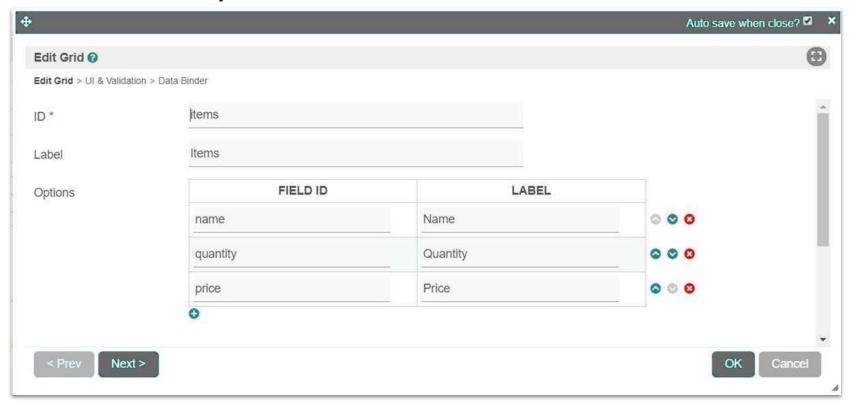
 Grid is the most basic element available in the Form Builder in capturing multi-row data.

- Reference: https://docs.rads.purwana.net/Grid
- For your information: The other grid-like element available in Form Builder is Form Grid.



Refresh

- Refresh your memory on what you did back in module 5 Designing your first Form
- Take a look at your "items" field element





Just In Case...

- You can download the base Purchase Requisition app 13.jwa to start 'playing around' with it.
- Completed Form Definition for "1-Submit Request" can be obtained from **13.2.1.txt**.



Chapter Review

• Able to use the Grid element.



Chapter 3

Form Grid



Form Grid

- Form Grid works similarly like the basic Grid.
- Instead of editing data row inline, editing is done on a full fledged Form that opens up in a dialog.
- Able to reuse validation and formatting from the selected Form.

 Reference: https://docs.rads.purwana.net/Form+Grid



- Re-import the base app "13.jwa" into your copy of RADS,
 OR delete the "items" Grid element.
- Create a new Form with the following details.

CREATE NEW FORM	
FORM DETAILS	
Form ID	items
Form Name	Items
Table Name	app_fd_ purchase_items



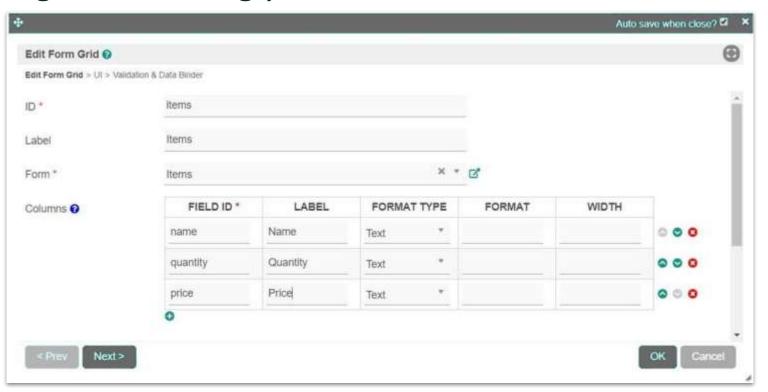
- Add 3 text fields with the following details:-
 - ID: name, Label: Name
 - ID: quantity, Label: Quantity
 - ID: price, Label: Price



• Save the form



- Edit the "1-Submit Request" form.
- Add a "Form Grid" wherever relevant.
- Configure accordingly.



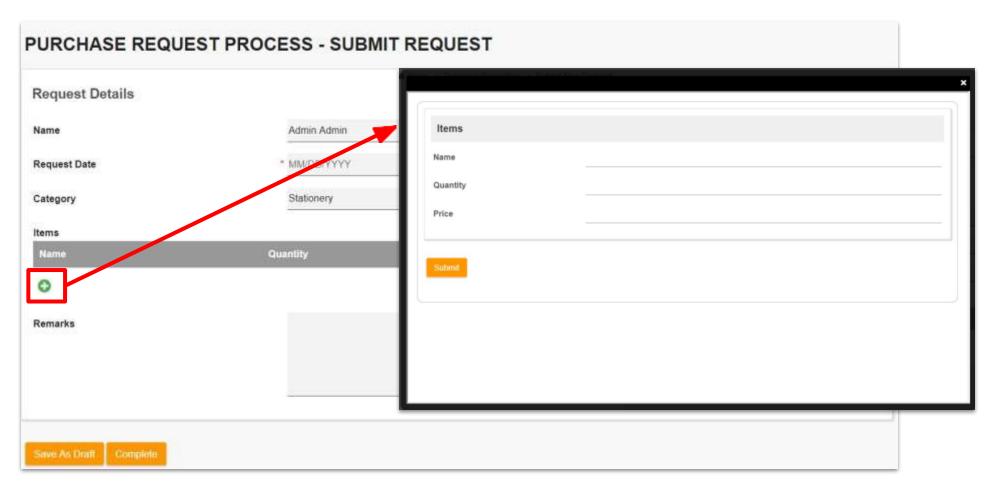


This is how your form design should look like.





• This is how the form should look like in runtime.





• Run a new "Submit New Request" process, and submit the form to observe.



Materials

- "1-Submit Request" form definition can be obtained from 13.3.1.txt
- "Items" form definition can be obtained from 13.3.2.txt



Chapter Review

- Being able to use the Form Grid element.
- PS: Check out Advanced Grid

(https://docs.rads.purwana.net/Advanced+Grid) Form

Element that performs similarly as Form Grid.



Chapter 4

Multirow Form Binder



Multirow Form Binder

- Multirow Form Binder is a Store/Load Form Binder that is designed to treat multi-row data for grid form element.
- Rather than storing as traditional JSON data format in a single column cell, the Multirow Form Binder saves the data into its respective tables.
- This would make data retrieval easier for sorting, statistics, and indexing/performance purpose.
- Reference:

https://docs.rads.purwana.net/Multirow+Form+Binder

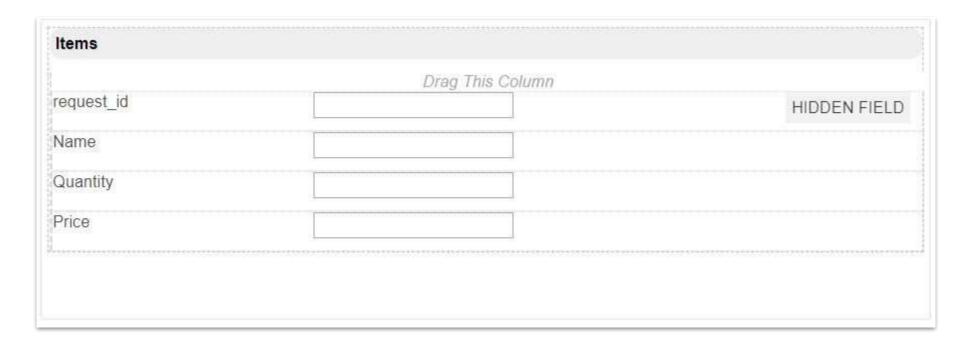


- Continue to use the application from the previous chapter
 OR import app from 13.4.1.jwa.
- Edit the "Items" form.
- Add a Hidden Field to the form.
- Configure accordingly.



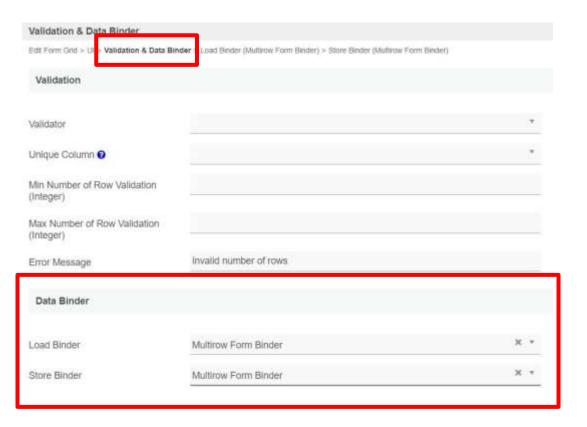


• This is how your "Items" form should look like.



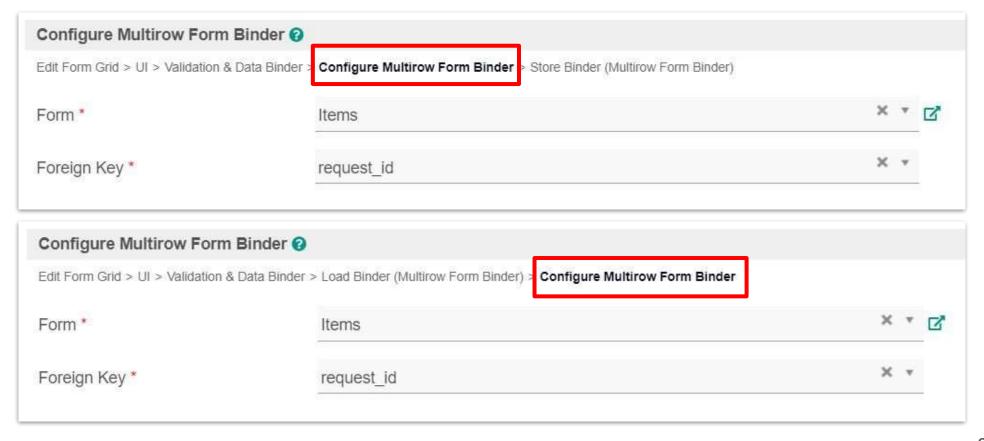


- Edit the "1-Submit Request" form.
- Configure the Form Grid element to utilize the Multirow Form Binder in Data Binder.





- Click next to configure the Binder.
- Configure accordingly.





• Run a new "Submit New Request" process, and submit the form to observe.



Exercise - Optional

 Inspect the database table of "Items", you will notice that rows of data is now being saved into this table rather than the parent table as JSON.





Materials

- "1-Submit Request" form definition is available at 13.4.2.txt
- "Items" form definition is available at 13.4.3.txt
- Complete app is available at 13.4.4.jwa



Chapter Review

 Understand the use case of the Multirow Form Binder and its benefits.



Chapter 5

List Grid



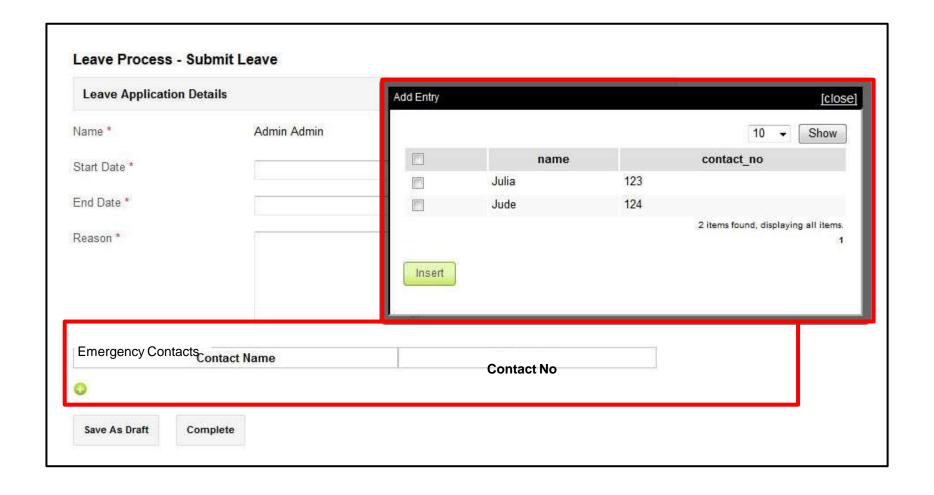
List Grid

- List Grid is a grid table that populates its data from a Datalist.
- It behaves similarly like a Grid (Chapter 2) but new rows are added from a specified Datalist instead.
- It also behaves similarly like a Form Grid that allows one to open up a Form for editing.

• Reference: https://docs.rads.purwana.net/List+Grid



Sample Use Case





Chapter Review

- Understand the List Grid element and be able to think of use cases of it.
- Able to differentiate Grid, Form Grid, and List Grid.



Chapter 6

CRUD



CRUD

- CRUD is a Userview Menu allows one to easily achieve the functionality of Create, Retrieve, Update, and Delete on a data entity.
- In short, manipulate records on a specified table.

Reference: https://docs.rads.purwana.net/CRUD



What Is Needed For CRUD To run?

- A Form entity
- A List of the same data entity as the form
- A Userview



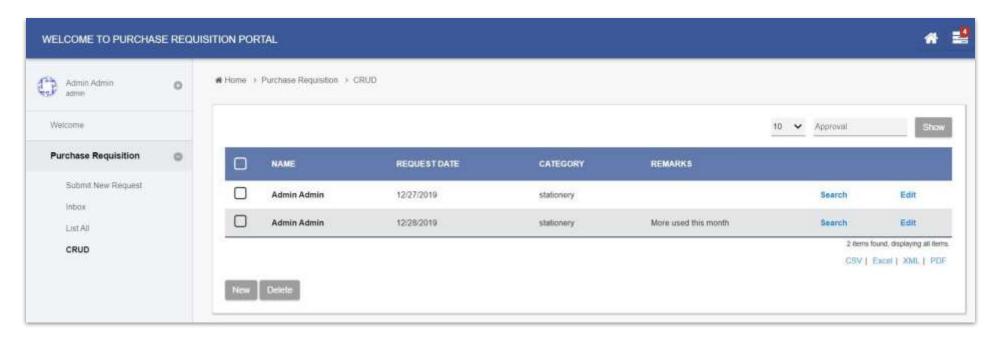
Refresh

- You've already done it! Refresh what you did back in Module 8 - Designing your first Userview
- If you do not have the CRUD for "Request List", ask your colleague how to, or raise hand...



How CRUD Looks Like...

• This is how the CRUD element would look like in runtime.





Chapter Review

Able to use CRUD and understand the linkages.



Chapter 7

Custom HTML



Custom HTML

Custom HTML in Form Builder can be used to achieve advanced form design by putting in any valid -

HTML

E.g: this text is in bold

JavaScript (jQuery is supported)

Remember to put in <script type="text/javascript"></script>
block

CSS

Don't forget to put in <style type="text/css"></style> block

Reference: https://docs.rads.purwana.net/Custom+HTML



Exercise - CSS (Optional)

- Customize the look and feel of how the form is rendered by modifying its CSS.
 - Add a Custom HTML form element into the bottom of the form.
 - Edit it, add the following code into Custom HTML property.

```
<style type="text/css">
.form-cell .label,
.subform-cell .label{
   width: 100%;
}
```

Request Details		
	Drag	This Column
Name		
#currentUser.firstName	# #c	
Request Date *		
MM/DD/YYYY		
Category Stationery ▼	· ·	
Items	7	
Name	Quantity	Price
0		
Remarks		



Exercise - Tooltip

 Make use of Advanced Tool's Tooltip to add hints into existing form "Submit Request" using Custom HTML also.

Name 1 Key in your full name	
Request Date *	MM/DD/YYYY
Category	Stationery
tems	
Name	Quantity
Name	Quantity
emarks	



Exercise - Color Picker (Optional)

- Create a text field "Color Code" with ID "color_code"
- Create a Custom HTML. Make use of color picker library to turn text field into a color picker.





Exercise - Color Picker - Materials

Do import these JS and CSS libraries into the app's resource from the materials folder:

- colorPick.min.css
- colorPick.min.js



Exercise - Color Picker

```
<script src="#appResource.colorPick.min.js#"></script>
<link rel="stylesheet" href="#appResource.colorPick.min.css#">
<script type="text/javascript">
  $(function(){
     initialColor = FormUtil.getField("color code").val();
     //console.log("initial " + initialColor);
     FormUtil.getField("color code").colorPick({
       'initialColor' : initialColor,
       'onColorSelected': function() {
          //console.log("The user has selected the color: " + this.color);
          FormUtil.getField("color code").val(this.color);
          this.element.css({'backgroundColor': this.color, 'color': this.color});
     });
  });
</script>
```



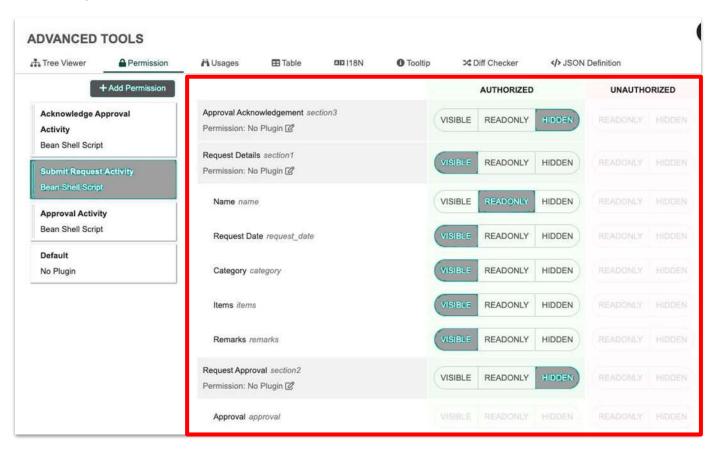
Chapter 8

Using Advanced Tool's Permission



Permission Control

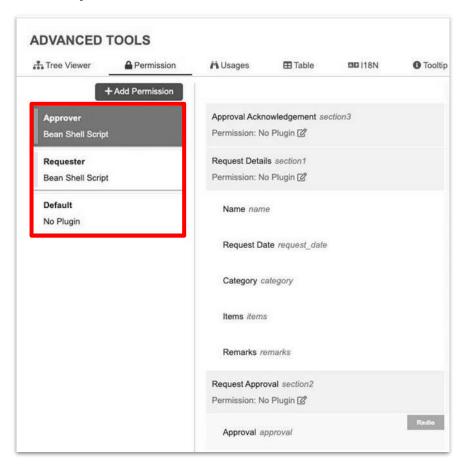
 The Permission in Advanced Tools allows fine grain control up to field level.





Permission Control

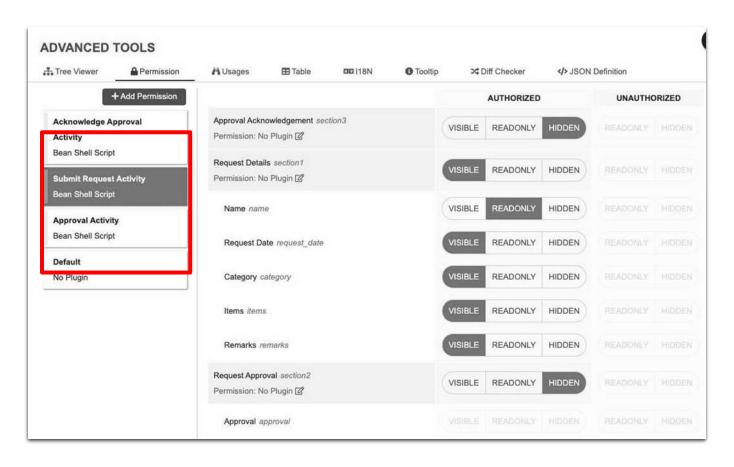
 Typically, one would control based on User Role most of the time to show/hide fields.





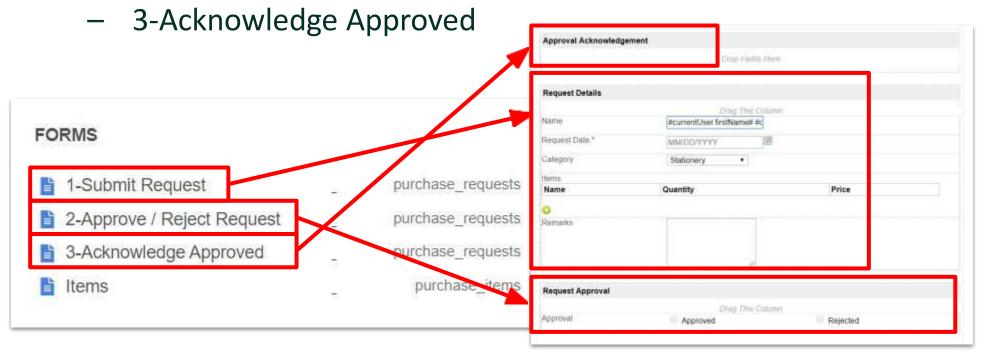
Permission Control

• If the form is used part of a process flow, it is also possible to exert permission **based on activity**, rather than user role.



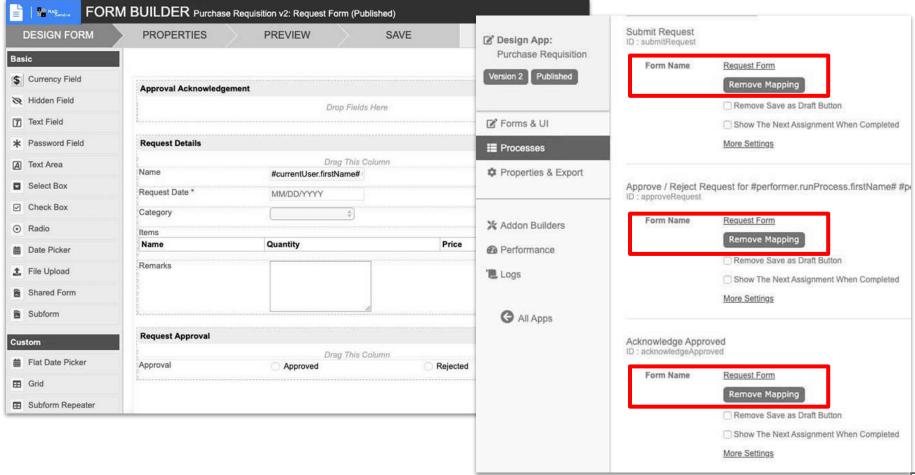


- One Master Form Concept Try combining the 3 forms in Purchase Requisition into a single form by using the Form Builder's Advance Tool Permission Tab:
 - 1-Submit Request
 - 2-Approve / Reject Request



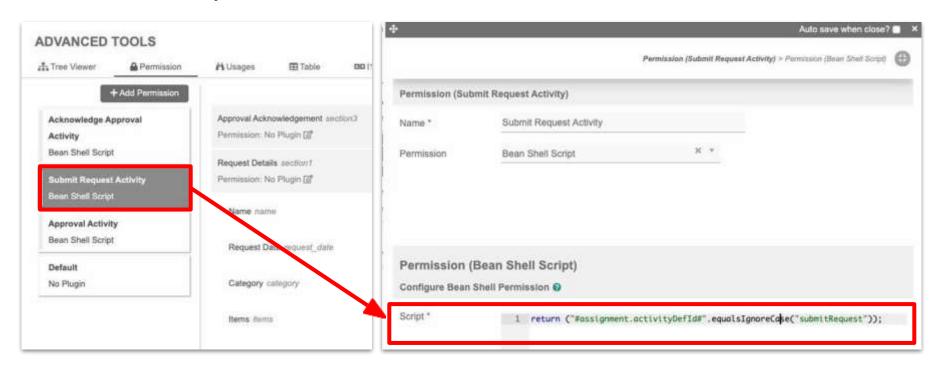


• The same form will be used in all activities.





 In the Permission tab, we can control on what to show based on current activity.



return ("#assignment.activityDefId#".equalsIgnoreCase("submitRequest"));



 Once you are done setting up, try to run through the whole flow and check if the form is showing up correctly as per the activity.



Materials

• Complete app is available at **13.8.1**.jwa



Module Review

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