

# SCM-Procurement.

## Custom read-only pages for Responsive Self Service Procurement (RSSP).

With OIC Visual Builder (planned a version 2 of this exercise using Extension using free Fusion VB).

### Introduction/Goal

Requirements as follows:

- 1. Show purchase requisitions data.
- 2. Tabular form master-detail-detail.
- 3. Show a descriptive flexfields.
- 4. Filter using requisition.

Improvements.

- Show badge for status.
- Drawer for supplier.
- Detail page for lines+show image of the product.
- Filter using the following: RequisitioningBU business unit and Requisition.

demo

Q 2016/16

Requisition	Requisitioning BU	RequisitionHeaderId	Description
2016/16	US1 Business Unit	30000048671163	Step Step 4 Step Ladder with Right Handrail, 27 inch Top Step, 23 5/4 inch x 15 5/2 inch x 40 5/4 inch

Amount	Line Number	Line Status	Line Type	POHeaderId	RequisitionHeaderId	Quantity
	1	APPROVED	Goods		30000048671163	1

DistributionNumber	Quantity	RequisitionLineId	RequisitionDistributionId	CurrencyAmount
1	1	30000048671164	30000048671165	279

BASIC



IMPROVED

Self Service Procurement-Purchase Requisitions

Q 9140

Requisitions

Requisition	Requisitioning BU	Document Status	Submission Date	Description	Preparer	App BU
914024	Progress US Business Unit	Approved	11/09/2014	Color Photo Printer	Eleanor White	
914031	Progress US Business Unit	Approved	12/09/2014	Room 8845 Cleaning Supplies	Eleanor White	
914036	Progress US Business Unit	Approved	12/09/2014	PowerEdge T610, Intel Xeon E564...	Diane Ward	
914038	Business Unit Business Unit	Approved	11/09/2014	Empire Blue-PAINT 8000 A-4-2	Phong Ward	

Line Detail Supplier Drawer

Lines

Line Number	Procurement BU	Line Status	Item Description	Item	Quantity	Price	Currency
1	Progress US B...	APPROVED	Color Photo Printer		2	147	US Dollar

Distributions

Distribution Number	Quantity	CurrencyAmount
1	2	298

Supplier Detail

X Close

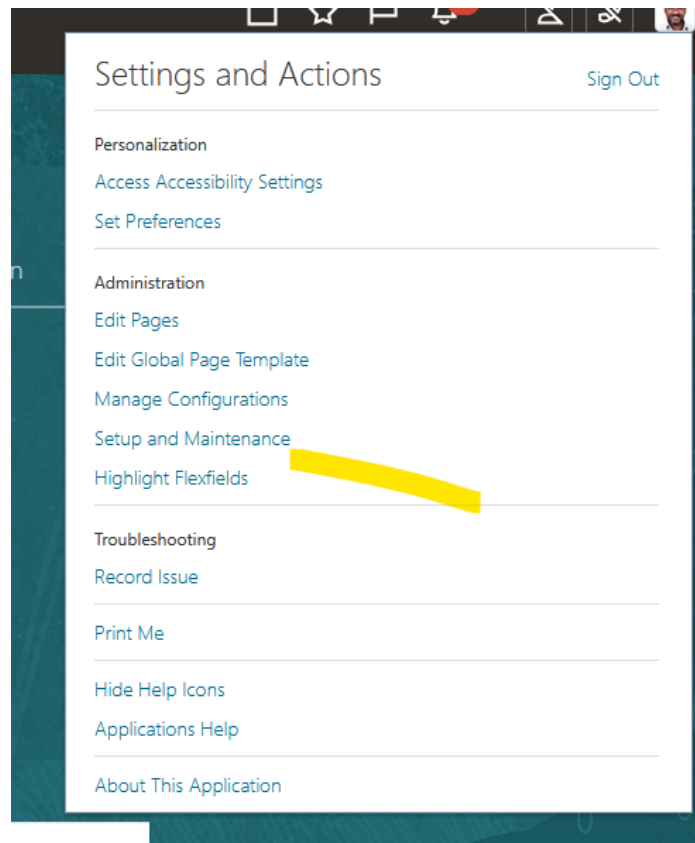
Supplier Number	Supplier
1252	Line Supplies
Status	Supplier Type
ACTIVE	
No Registration Type	Registration ID
Corporation	
No Registration Country	No Registration Number
Business Relationship	Site
Spend Authorized	Lee Heathcote
Forecasting	Payment Terms
On	
Pay Group	

DISCLAIMER: this demo is for investigation, use at your discretion, no guarantee provided.

**Preparatory steps 1.**

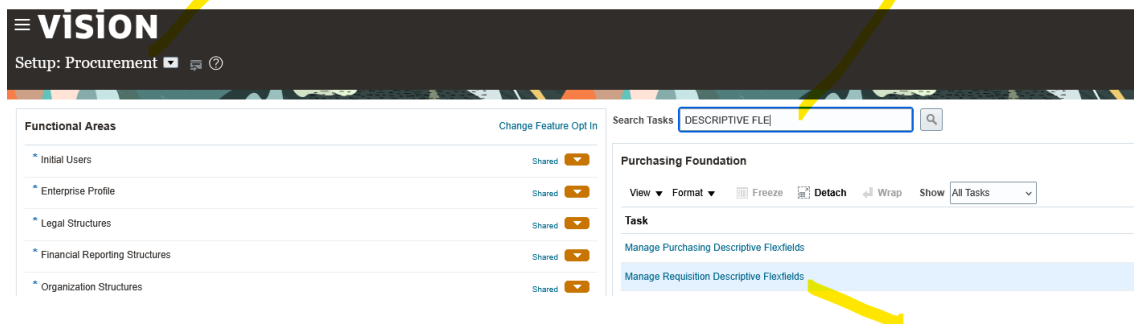
Setup Descriptive flexfields in Oracle ERP.

From main menu, access this option:

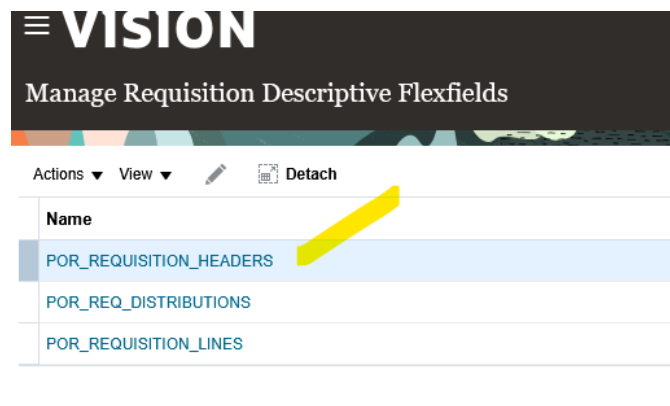


Then select Procurement module and search for “descriptive flex” as shown.

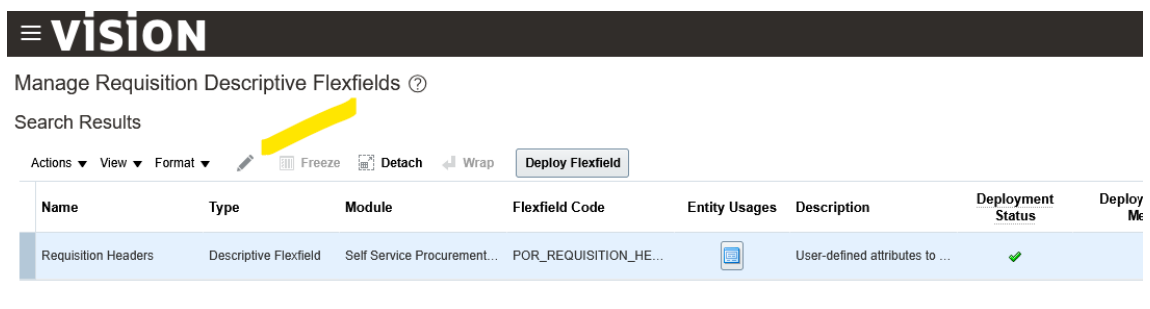
Select option “Manage Requisition Descriptive Flexfields”.



Then select “headers” option.



Then “Edit”.



Here add your Descriptive flexfields, according to your needs.

We will add these flexfields for demo purposes.

Setup flex Header.

## Create Segment ?

Flexfield Name Requisition Headers

\* Name Demo Redwood

\* Code Demo Redwood

\* API Name demoRedwood

## Column Assignment

\* Data Type Character

## Validation

\* Value Set 150Char

Value Set Description 150Char

In Redwood page it would be seen as follows.

**204180**  
Requisition

**Delivery**

Requester John Dunbar

Requested Delivery Date 5/30/25

Deliver-to Location Type Internal

Deliver to Location Seattle

☐ Urgent

**Project costing**

Project Number

**Charge account**

Charge To 101.10.60540.120.000.000

**Additional information**

Demo Redwood  
Redwood demo header info.

Setup flex Lines.

## Edit Segment ?

Flexfield Name Requisition Lines

\* Name Demo Redwood

Code Demo Redwood

\* API Name demoRedwood

## Column Assignment

Data Type Character

## Validation

\* Value Set 150Char

Value Set Description 150Char

In Redwood page it would be seen as follows.

**Requisition Line Details**  
Requisition 204180

Manufacturer: Poly  
Manufacturer Part Number: 203500

**Pricing**

Quantity: 1  
Price: \$ 154.50  
UOM: Ea  
Currency: USD

**Additional information**

Demo Redwood  
Line data for demo  
Enter 150 or fewer characters.

#### Create Segment ?

Flexfield Name: Requisition Distributions

\* Name: Demo Redwood  
\* Code: Demo Redwood  
\* API Name: demoRedwood

Column Assignment

\* Data Type: Character

Validation

\* Value Set: 150Char  
Value Set Description: 150Char

## Preparatory steps 2.

Analyze the purchase requisitions REST API.

<https://xx-saasfademo1.ds-fa.oraclepdemos.com//fscmRestApi/resources/latest/purchaseRequisitions?fields=RequisitionHeaderId,RequisitioningBUId,RequisitioningBU&onlyData=true&limit=500&orderBy=RequisitioningBU>

GET ▼ <https://fa-esll-saasfademo1.ds-fa.oraclepdemos.com/fscmRestApi/resources/latest/purchaseRequisitions?fields=RequisitionHeaderId,Requis>

arams • **Authorization** • Headers (14) • Body • Scripts • Tests • Settings

Auth Type  
Basic Auth ▼

The authorization header will be automatically generated when you send the request. Learn more about [Basic Auth](#) authorization.

Username

Password  👁️ 🔒

### Preparatory steps 3. Connections

Other blogs explains how to create Visual Builder connections, for simplicity we will include only the paths.

#### Connection 1.

**`https://xxxx.ds-fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/purchaseRequisitions`**

sn_pr_01 x			
Overview Servers Endpoints Headers Source			
<input type="text" value="Filter Endpoints"/> <span>+ Endpoint</span> <span>🔍</span>			
▼ purchaseRequisitions			
/purchaseRequisitions			
GET	Get Many	Get all	getall_purchaseRequisitions
POST	Create	Create	create_purchaseRequisitions
/purchaseRequisitions/{purchaseRequisitions_id}			
GET	Get One	Get	get_purchaseRequisitions
PATCH	Update	Update	update_purchaseRequisitions
DELETE	Delete	Delete	delete_purchaseRequisitions
/purchaseRequisitions/{purchaseRequisitions_id}/action/calculateTax			
POST	Create	calculateTax	do_calculateTax_purchaseRequisitions
/purchaseRequisitions/{purchaseRequisitions_id}/action/calculateTaxAndAccounting			
POST	Create	calculateTaxAndAccounting	do_calculateTaxAndAccounting_purchaseRequisitions
/purchaseRequisitions/{purchaseRequisitions_id}/action/cancel			
POST	Create	cancel	do_cancel_purchaseRequisitions
/purchaseRequisitions/{purchaseRequisitions_id}/action/checkActionEligibility			
POST	Create	checkActionEligibility	do_checkActionEligibility_purchaseRequisitions

#### Connection 2.

**`https://xxx.ds-fa.oraclepdemos.com/fscmRestApi/resources/11.13.18.05/suppliers`**

Services

Service ConnectionsBackends

Filter

sn\_pr\_01

sn\_supp\_01

Welcome

main-line\_det

main-start

sn\_supp\_01

OverviewServersEndpointsHeadersSource

Filter Endpoints

+ Endpoint

suppliers

/suppliers

GET

Get ManyGet allgettail\_suppliers

POST

CreateCreatecreate\_suppliers

/suppliers/{suppliers\_id}

GET

Get OneGetget\_suppliers

PATCH

UpdateUpdateupdate\_suppliers

/suppliers/{suppliers\_id}/action/scores

POST

Create scoresdo\_scores\_suppliers

/suppliers/{suppliers\_id}/action/signals

POST

Create signalsdo\_signals\_suppliers

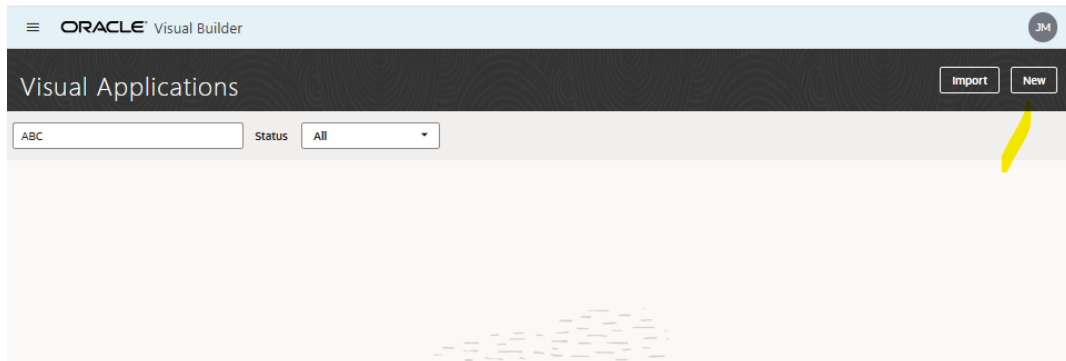
/suppliers/{suppliers\_id}/action/submitSpendAuthorizationRequest

POST

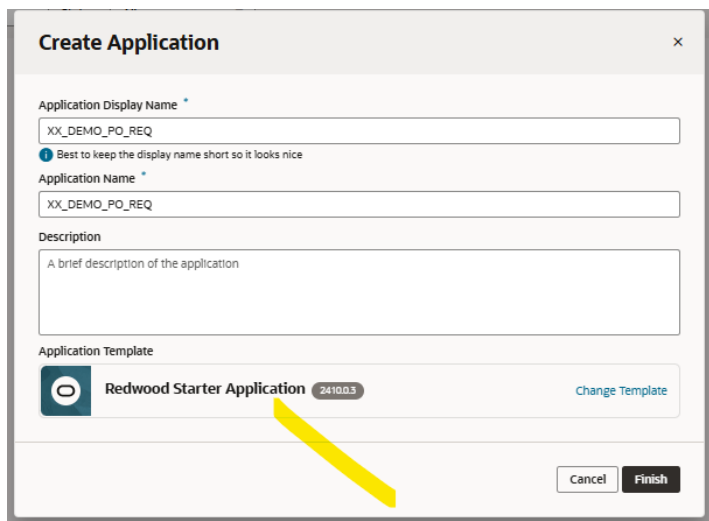
Create submitSpendAuthorizationRequestdo\_submitSpendAuthorizationRequest\_suppliers

## Steps Developing with Visual Builder.

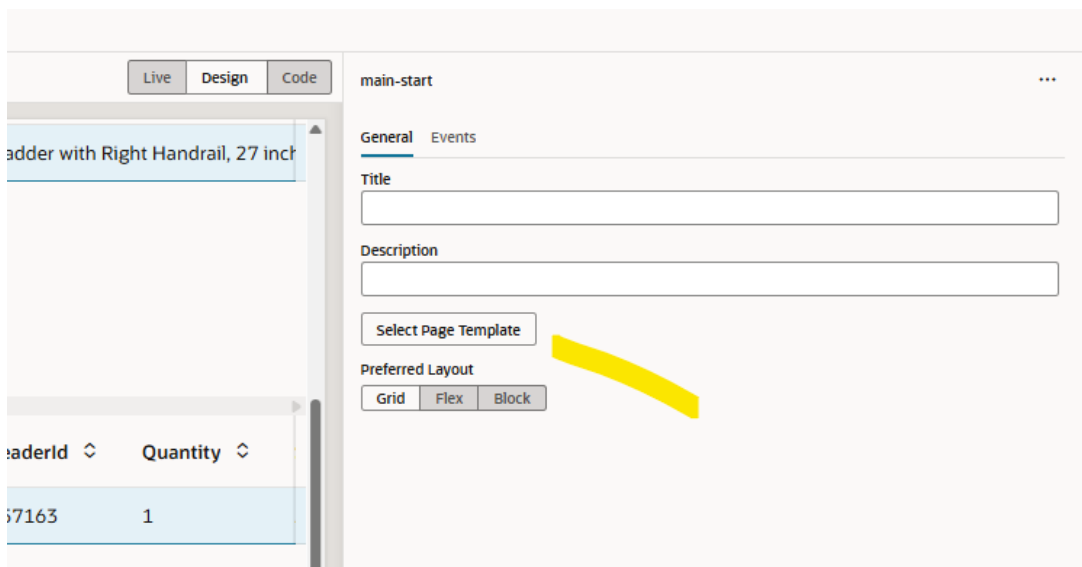
Create Visual Builder application.



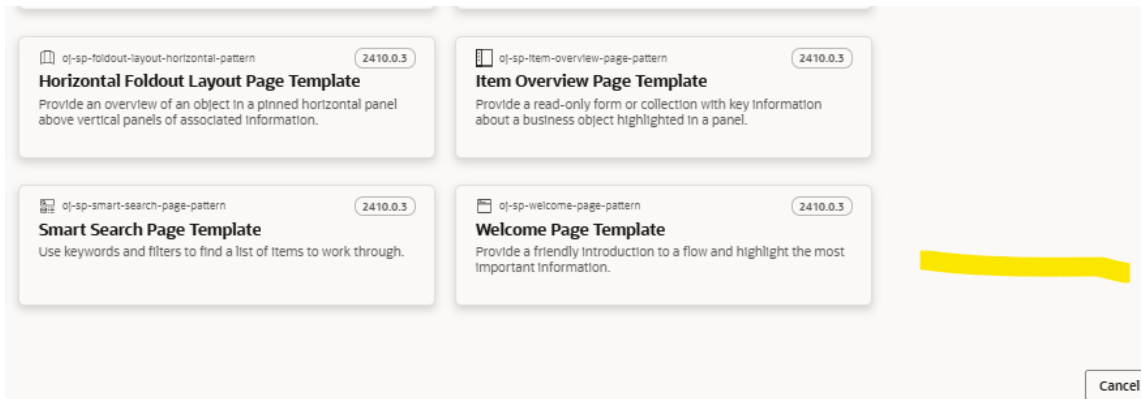
Assign your name and select Redwood as template.



After creating application, select "Welcome page template".







Then create these variables, they will help us to store id's when navigating and more.

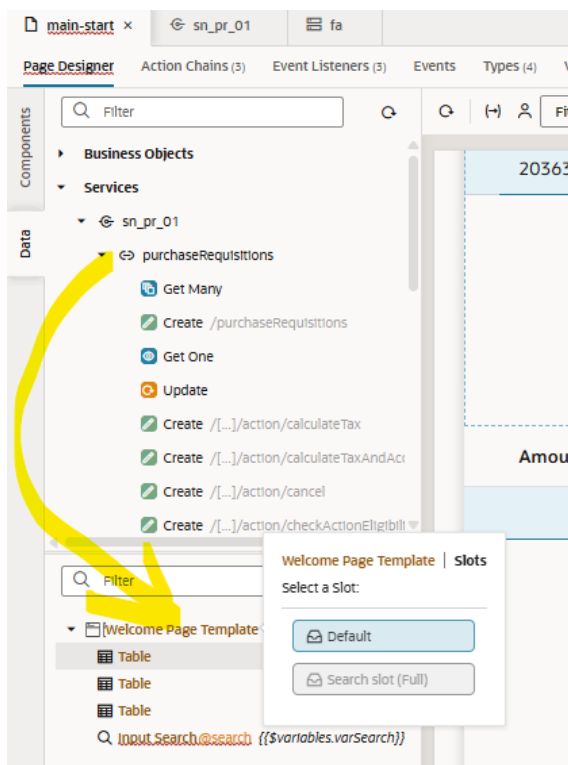
```

A varLine
A varOpenedDrawer
A varPO_REQ_ID
A varPO_REQ_LINE_ID
A varReq
A varSearch
A varVendorid (1 listener)

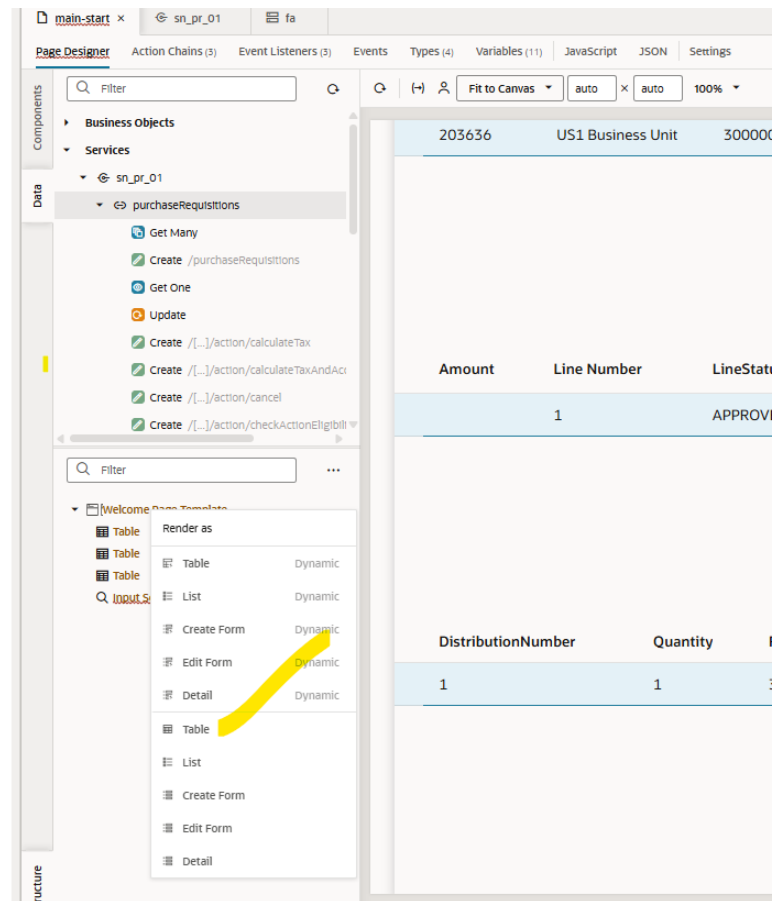
```

Now we will create the 3 Table-components as shown, one for each level (requisition-line-distribution).

Drag and drop as shown.



Now select this option.



Following previous explanation, create table 1 for purchase requisition headers.

Fields selected.

### Edit Type From Endpoint

**Define Type**  
Select attributes from the endpoint you want to use in your application.  
getallPurchaseRequisitionsResponse  
☒ Create From Endpoint Root

**Endpoint Structure**

- ☒ {} Response
  - ☐ # count
  - ☐ hasMore
  - ☒ [] Items
    - ☐ ActiveRequisitionFlag
    - ☒ ApprovedByEmail
    - ☐ # ApprovedById
    - ☒ ApprovedDate
    - ☐ {} attachments
      - ☐ BudgetaryControlEnabledFlag
      - ☐ ConcatDocumentFiscalClassificationCode
      - ☐ CreatedBy
      - ☐ CreationDate
      - ☒ Description
    - ☒ DFF
      - ☐ # count
      - ☐ hasMore
      - ☒ [] Items
        - ☐ A \_\_FLEX\_Context
        - ☐ A \_\_FLEX\_Context\_DisplayValue
        - ☒ A demoRedwood
      - ☐ Links

**Type**

- ☐ Items
  - A ApprovedByEmail
  - A ApprovedDate
  - A Description
  - ☒ {} DFF
    - ☒ [] Items
      - A demoRedwood
    - A DocumentStatus
    - A Justification
    - A Preparer
    - A Requisition
    - # RequisitionHeaderid
    - A RequisitioningBU
    - A SubmissionDate

Cancel Finish

After creating table, create Action chain.

ORACLE Visual Builder XX\_PO\_REQ\_DEMO\_QUERY DEVELOPMENT 1.0

Page Designer Action Chains (3) Event Listeners (3) Events Types (4) Variables (11) JavaScript JSON Settings

Components Filter

- Business Objects
- Services

Data Filter

- Welcome Page Template
  - Table
  - Table
  - Table
  - Input.Search@search {{variables.varSearch}}

Structure

Table

Overline Text  
demo  
Description Text

203636

Requisition Requisition BU

203636 US1 Business

Page ... Table 2 errors on this page

Table

General Data Events (1) All Quick Start

first-selected-row → TableFirstSelectedRowChangeChain

Event

first-selected-row

Action Chain

TableFirstSelectedRowChangeChain

Input Parameters

\* rowData \*

{{event.detail.value.data}}

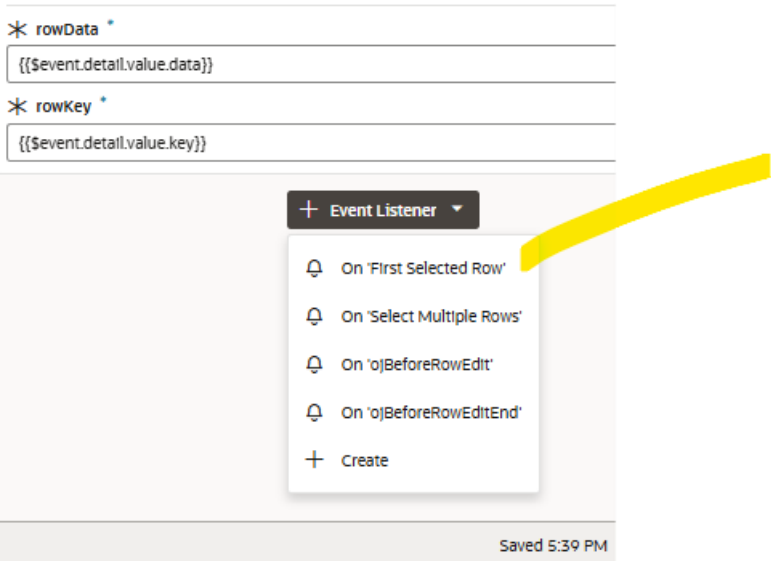
\* rowKey \*

{{event.detail.value.key}}

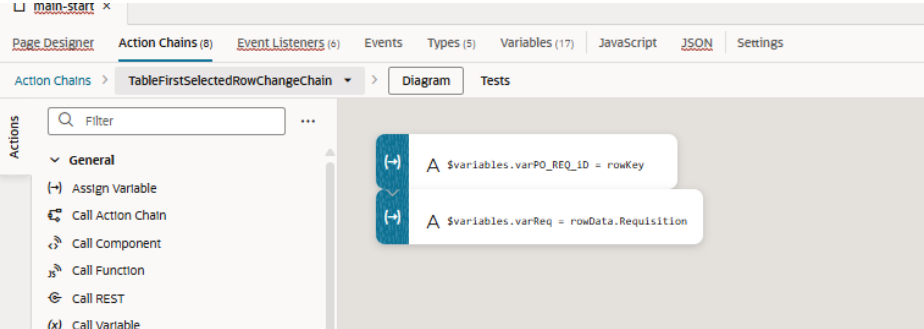
+ Event Listener

Audits Find In Files Logs Trace Tests Saved 5:39 PM

Select this.



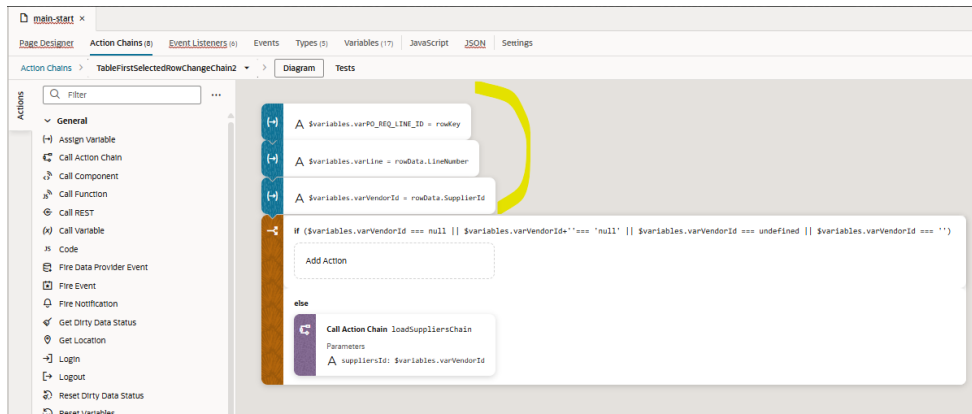
To fill variables when navigating.



Following previous explanation, create table 2 for purchase requisition lines.

Fields selected.





We will go back to “if” part of the screenshot below later in “Improvements” section.

Following previous explanation, create table 3 using id from previous variable for purchase distributions.

Fields selected.

### Edit Type From Endpoint

**Define Type**  
Select attributes from the endpoint you want to use in your application.  
getallPurchaseRequisitionsLinesDistributionsResponse  
☒ Create From Endpoint Root

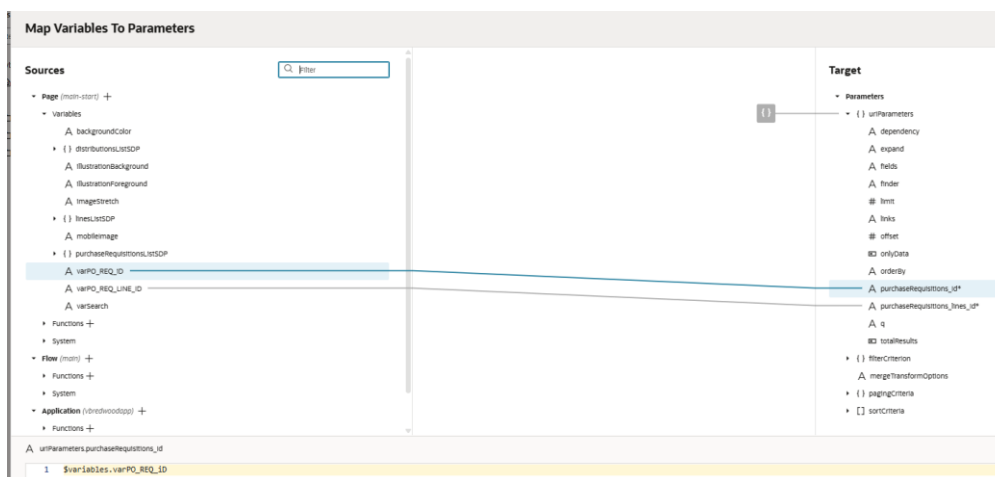
**Endpoint Structure**

- ☒ **{ }** Response
  - ☐ # count
  - ☐ # hasMore
  - ☒ **[ ]** Items
    - ☐ A BudgetDate
    - ☒ A ChargeAccount
    - ☐ # ChargeAccountid
    - ☐ # ChartOfAccountid
    - ☒ # CurrencyAmount
    - ☐ # CurrencyNonrecoverableExlusiveTax

**Type**

- ☐ **Items**
  - A ChargeAccount
  - # CurrencyAmount
  - # DistributionNumber
  - # Quanttty
  - # RequisitionDistributionid
  - # RequisitionLineid

We will use the following variables to filter.



The techniques to filter master-detail are not unique, I use the shown approach.

As shown above when navigating, I get the ids. In the action chains.

**Conclusion**

We have now a basic custom page for purchase requisitions with the requirements of our users.

KEEP READING!!!

The page is read-only, but with proper changes could do actions allowed by REST API.

demo

203636

Requisition	Requisitioning BU	RequisitionHeaderId	Description
203636	US1 Business Unit	300000048657163	Stop-Step 4-Step Ladder with Right Handrail, 27 inch Top Step, 23-3/4 inch x 33-1/2 inch x 40-3/4 inch

Amount	Line Number	LineStatus	Line Type	POHeaderId	RequisitionHeaderId	Quantity	Supplier
	1	APPROVED	Goods		300000048657163	1	JGA

DistributionNumber	Quantity	RequisitionLineId	RequisitionDistributionId	CurrencyAmount	Charge Account
1	1	300000048657164	300000048657165	279	101.10.60540.120.00...

Technical

Code example	Comments
XX_PO_REQ_DEMO_QUERY-1.0.zip	Visual Builder application demos used in exercise.
TO	
XX_PO_REQ_DEMO_QUERY-1.0.4.zip	

Improvements to make our users happier.

VB\_REDWOOD\_COOKBOOK\_2025

Self Service Procurement-Purchase Requisitions

VB\_REDWOOD\_COOKBOOK\_2025

Q 9140

Requisitions

Requisition	Requisitioning BU	Document Status	Submission Date	Description	Preparer	Approved By	Approved Date
914024	Progress US Business Unit	Approved	11/08/2014	Color Photo Printer	Eleanor White		11/08/2014
914031	Progress US Business Unit	Approved	12/08/2014	Room 8843 Cleaning Supplies	Eleanor White		12/08/2014
914036	Progress US Business Unit	Approved	12/08/2014	PowerEdge T610, Intel Xeon E564...	Diane Ward		12/08/2014
914038	Progress US Business Unit	Approved	27/08/2014	External BlueRay/DVD RW 6x4x C	Diane Ward		27/08/2014

Line Detail

Supplier Drawer

Lines

Line Number	Procurement BU	Line Status	Item Description	Item	Quantity	Price	Currency	Supplier	Supplier Site
1	Progress US B...	APPROVED	Color Photo Printer		2	149	US Dollar_E	Lee Suppl...	Lee Progr...

Distributions

Distribution Number	Quantity	CurrencyAmount	Charge Account
1	2	298	1001-0000-13500-56100-0000-0000-0...

- Show badge for header requisition and line requisition statuses.

ing BU

Document Status

Submission Date

Business Unit

Approved

11/08/2014

Business Unit

Approved

12/08/2014

Business Unit

Approved

12/08/2014

Business Unit

Approved

27/08/2014

Line Status

Item Description

APPROVED

Color Photo Printer

Requisitions

Requisition

Requisitioning BU

Document Status

Submission Date

203685

US1 Business Unit

Approved

12/09/2014

203653

US1 Business Unit

Approved

15/01/2014

203667

US1 Business Unit

Incomplete

203668

US1 Business Unit

Approved

12/02/2014

Line Detail

Supplier Drawer

Lines

Line Number

Procurement BU

Line Status

Item Description

1

US1 Business ...

INCOMPLETE

14" Laptop 1.83Mhz, Vista, Office



- *Drawer for supplier data.*

VB\_REDWOOD\_COOKBOOK\_2025

## Self Service Procurement-Purchase Requisitions

VB\_REDWOOD\_COOKBOOK\_2025

### Requisitions

Requisition	Requisitioning BU	Document Status	Submission Date	Description	Preparer
914024	Progress US Business Unit	Approved	11/08/2014	Color Photo Printer	Eleanor White
914031	Progress US Business Unit	Approved	12/08/2014	Room 8843 Cleaning Supplies	Eleanor White
914036	Progress US Business Unit	Approved	12/08/2014	PowerEdge T610, Intel Xeon E564...	Diane Ward
914038	Progress US Business Unit	Approved	12/08/2014	External Blu-ray/DVD Drive AA...	Diane Ward

Line Detail

Supplier Drawer

### Lines

Line Number	Procurement BU	Line Status	Item Description	Item	Quantity	Price	Current
1	Progress US B...	APPROVED	Color Photo Printer		2	149	US D

### Supplier Detail

Close

Supplier Number 1252	Supplier Lee Supplies
Status ACTIVE	Supplier Type
Tax Organization Type Corporation	Taxpayer ID
Tax Registration Country	Tax Registration Number
Business Relationship Spend Authorized	Site Lee Healthcare
Purchasing On	Payment Terms
Pay Group	

- *Detail page for line data+show image of the product.*

Parent page

Cancel Submit

## Line Detail

Req: 914024 Line: 1

Supplier  
Lee Supplies

Line Description  
Color Photo Printer

Organization  
Progress Operations

SourceOrganizationCode

Status  
Approved

Cost Center  
13500

Demo Redwood

Procurement BU  
Progress US Business Unit

Requester  
White, Eleanor

UOM Name  
Ea

Supplier Site  
Lee Progress US

Price  
149

Deliver-to Organization  
PRG01

Deliver-to Location  
Reston


Category  
206.74 Printers

Destination Type  
Expense

Line Number  
1

Product Type  
Goods

Source Type  
Supplier



Item

Quantity  
2

Source Organization

LineStatus  
APPROVED

Product Category

DestinationTypeCode  
EXPENSE

Line Type  
Goods

ProductTypeCode  
GOODS

UnitPrice  
149

- *Filter using the following: RequisitioningBU business unit and Requisition.*

VB\_REDWOOD\_COOKBOOK\_2025
Self Service Procurement-Purchase Requisitions
VB\_REDWOOD\_COOKBOOK\_2025
Q US1

### Requisitions

Requisition	Requisitioning BU	Document Status	Submission Date	Description
203679	US1 Business Unit	Approved	07/01/2014	20" Flat panel: Dell Monitors;UIS,1...
203685	US1 Business Unit	Approved	12/09/2014	Color Photo Printer
203653	US1 Business Unit	Approved	15/01/2014	14" Laptop 1.83Mhz, Vista, Office ...
203667	US1 Business Unit	Incomplete		14" Laptop 1.83Mhz, Vista, Office ...

Line Detail
Supplier Drawer

### Lines

Line Number	Procurement BU	Line Status	Item Description	Item	Quantity
1	US1 Business ...	INCOMPLETE	14" Laptop 1.83Mhz, Vista, Office ...		3

Note: pending uppercase control for searching.

**IMPORTANT (Jun 1th).**

Detailed explanations for these improvements **IS WIP** (we will update in the coming weeks), but code is provided.

Technical

Code example	Comments
XX_PO_REQ_DEMO_QUERY-1.0.5.zip	Visual Builder application demo used in exercise.  Latest.