

## **Practice 2: Create Business Objects and Welcome Page**

## **Overview**

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In these practices, you will:

- Create and test the Business Objects for the RRA data: Customers, Orders, Suppliers and Products.
- Configure the Welcome page to display Draft orders.

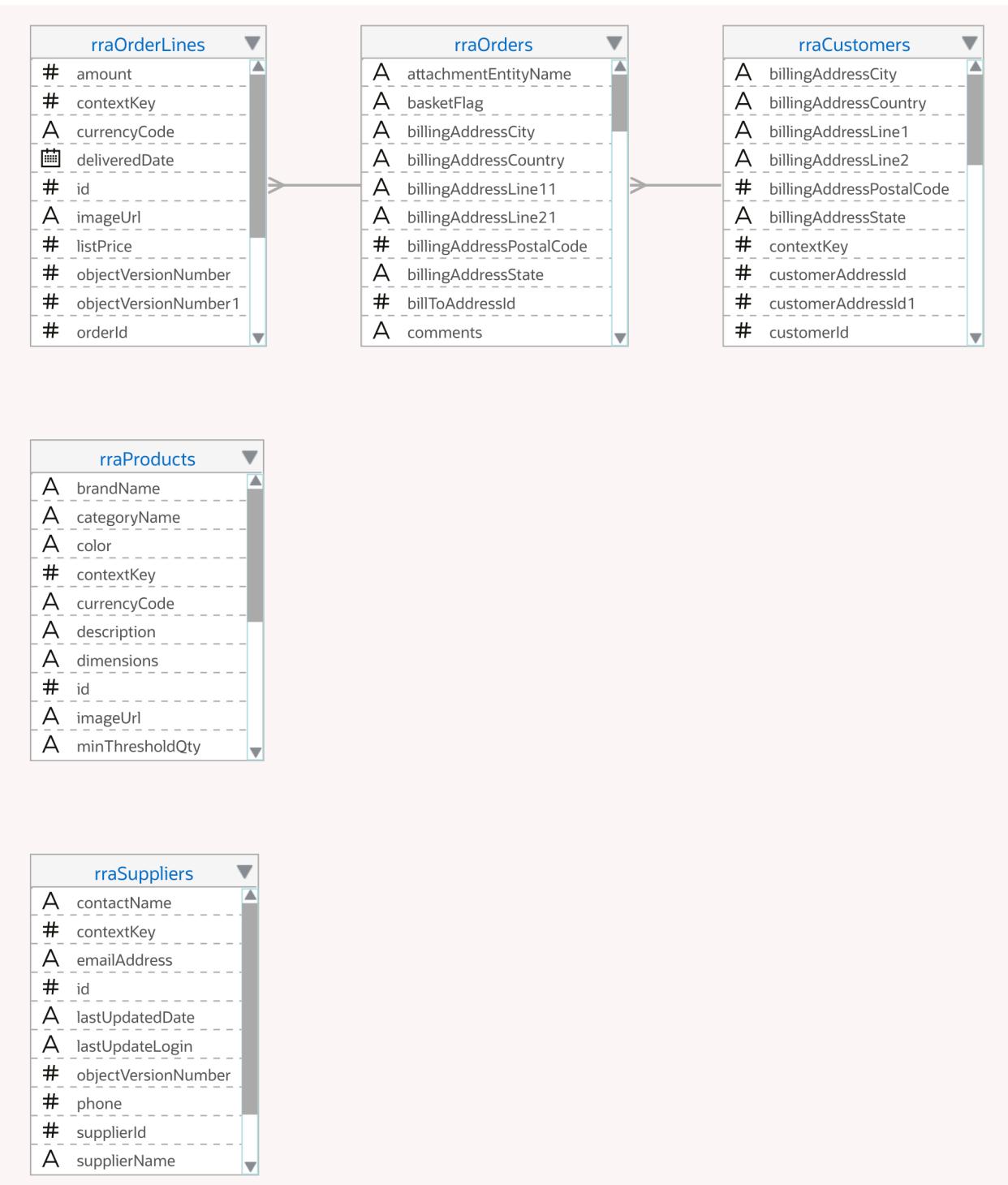
## Practice 2-1: Create Business Objects

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### Overview

In this practice, you create the necessary Business Objects to load the Redwood Reference App data (RRA) from CSV files to supply data for the application.

Take a moment to review the data model below. Note the relationship between rraCustomers and rraOrders, and rraOrders and rraOrderLines. These relationships are used in queries later in the practices. There is no relationship between rraProduct and rraOrderLines because the product information is duplicated in the order line for convenience.



## Assumptions

You have successfully completed Practice 1-2.

## Tasks

1. Log in to **Visual Builder Studio** and select your project name on the Projects tab. Your project name will be **OrderMgt\_<your initials>**, where **<your initials>** corresponds to your initials.

The screenshot shows the Visual Builder Studio interface. On the left is a sidebar with icons for Organization, Project Home, Workspaces, Git, Merge Requests, Maven, NPM, and Docker. The main area is titled "Visual Builder Studio" and "Organization". The "Projects" tab is selected. Below it, there is a search bar and filters for Member, Favorites, Owner, Shared, and All. The results show "Projects: 3". A table lists the projects: OrderMgt\_JDG (Current), Order Management Applic..., Status: Active. The "OrderMgt\_JDG" row is highlighted with a red box.

2. The Project Home page opens. Right-click the **OrderMgt\_<your initials>** workspace and select **Open in New Tab**.

The screenshot shows the Visual Builder Studio interface with "OrderMgt\_JDG" selected in the top bar. The left sidebar includes Project Home, Workspaces, Git, Merge Requests, Maven, NPM, Docker, Builds, Releases, Environments, and Issues. The main area shows a "Workspaces" section with "OrderMgt\_JDG" (Visual Application) and "gt\_jdg.git". A context menu is open over "OrderMgt\_JDG", with "Open in New Tab" highlighted by a red box. Other options in the menu include Rename, Export Visual Application, Switch Environment, Change Ownership, and Delete. The "Environments" section below shows "Development" checked with "1 service instance".

3. Close the **Welcome** tab if it's open.

4. Select the **Business Objects** icon in the Navigator. The Business Object tab opens. Click the ellipsis (...) and select Data Manager.



5. Click Import Business Objects.

A screenshot of the Data Manager screen. It shows a navigation bar with 'Data Manager' and a search bar. Below it is a section titled 'Manage Application Data' with three options: 'Import from File', 'Export All Data', and 'Edit Data in Excel'. At the bottom, there's a red box highlighting the 'Import Business Objects' option, which is described as creating new Business Objects by importing from Excel, CSV, or zip files.

6. Upload the **rraCustomers.csv** file when prompted. Click **Upload** to start the upload.

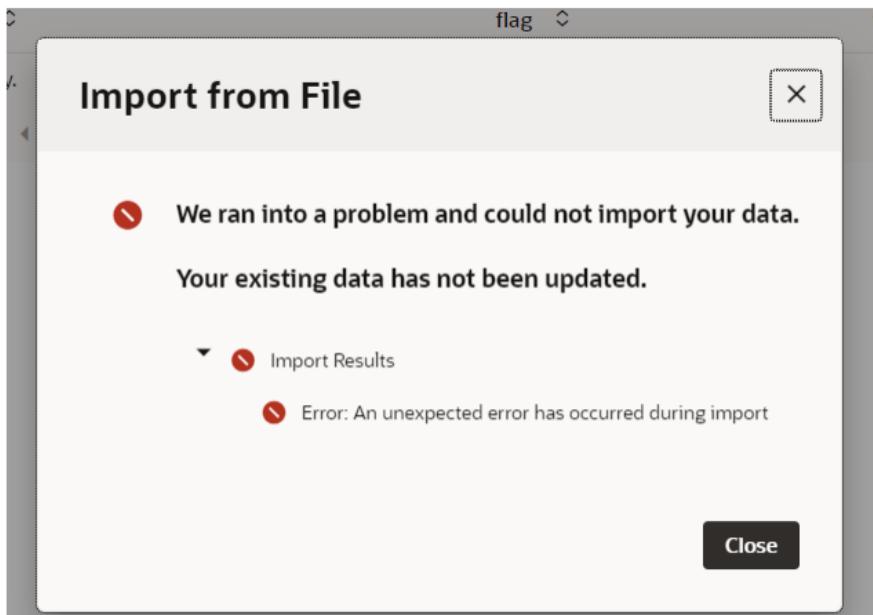
**Note:** The `rraCustomers.csv` file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it.

A screenshot of the 'Import New Business Objects' dialog. It has a progress bar at the top with three steps: 'Upload File', 'Business Objects', and 'Fields'. The first step is active. Below it, there's a text input field asking for the file to import, with a red box highlighting the 'Drag and Drop' area where 'rraCustomers.csv' is listed. To the right, there's a 'Character Encoding' dropdown and a red box highlighting the 'Upload' button.

### Important Note –

If you have trouble accessing / importing business object data, it might be because you need to add the service URL to the list of domains that are allowed to exchange data with your application.

If you encounter the below error while importing business object data, or the initial load hangs for more than a few seconds, perform the steps listed below:



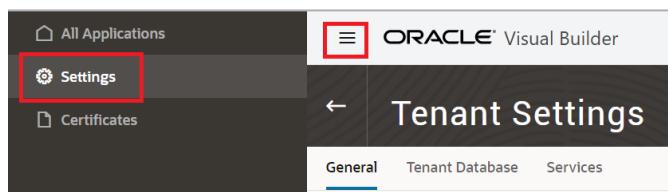
[Client UUID: 2e486bfa-ed40-4169-9fa8-dfddd0928c32] [ECID Headers: Not present] : error

- In the web browser, log in to Visual Builder Home Page URL. The URL and credentials are provided in the Lab Details section or from your instructor.

**Example URL** - <https://appvbc99283452-ocuocictrng19.builder.ocp.oraclecloud.com/ic/builder>

To add a domain to the list of allowed origins:

- Open the instance's **Settings** page.



- In the **Allowed Origins** panel (under **General** tab), click **New Origin** and type the URL of the domain that you want to allow. Click **Submit**.

The URL of domain (in your case) is that of your **Visual Builder Studio instance**.

**Example URL** - <https://appdevcs99286531-ocuocictrng19.developer.ocp.oraclecloud.com/appdevcs99286531-ocuocictrng19/>

General Tenant Database Services

## Security

Allow only secure applications to be created  
 Only Visual Builder users can access secure applications

No Visual Builder Access  
Enter redirect URL

Access Denied Message

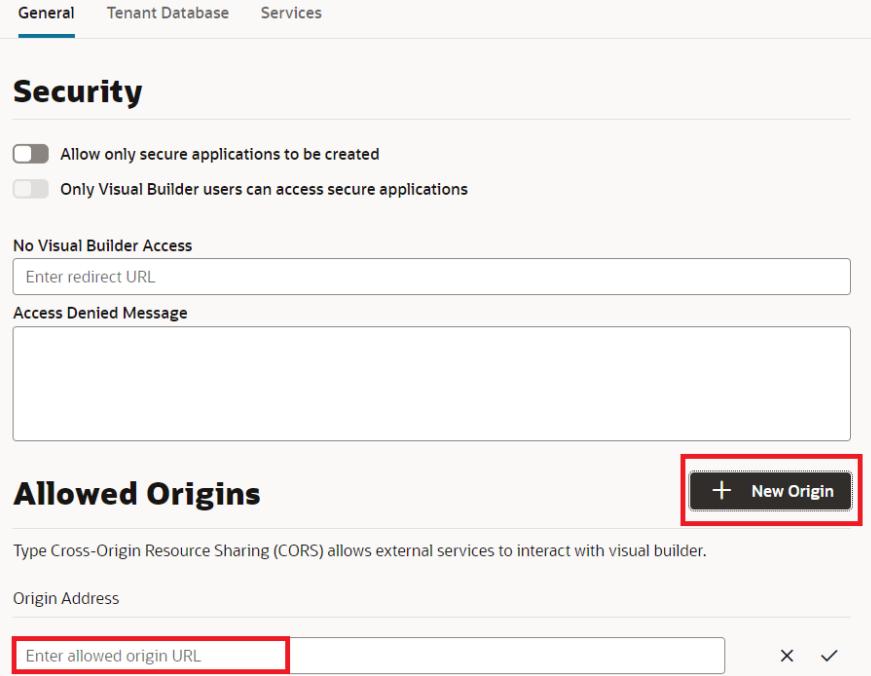
**Allowed Origins**

Type Cross-Origin Resource Sharing (CORS) allows external services to interact with visual builder.

Origin Address

Enter allowed origin URL

**+ New Origin**



\The Allowed Origins panel now lists the origin that is permitted.

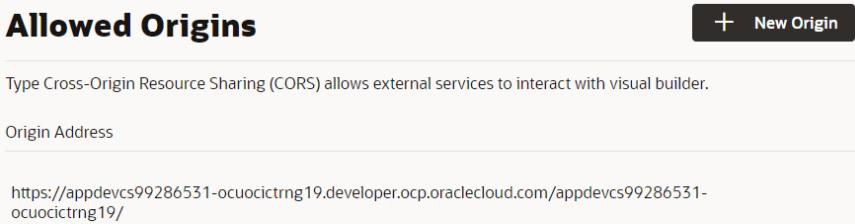
## Allowed Origins

Type Cross-Origin Resource Sharing (CORS) allows external services to interact with visual builder.

Origin Address

https://appdevcs99286531-ocuocictrng19.developer.ocp.oraclecloud.com/appdevcs99286531-ocuocictrng19/

**+ New Origin**



You may need to refresh the browser to see the effect.

- Click **Next** after the file has been uploaded.

**Import New Business Objects**

① Upload File      ② Business Objects      ③ Fields

Provide the file containing data that you wish to import.

**Drag and Drop**  
rraCustomers.csv

Character Encoding: ⓘ  **Upload**

Uploading rraCustomers.csv  
rraCustomers Business Object...  
rraCustomers records...  
Upload succeeded.

found  
**400 exist**

- Change the **Display Label After Import** to **Customers** and the **New Object Name** to **rraCustomers** and click **Next**.

**Import New Business Objects**

① Back      ② Business Objects      ③ Fields

Business Objects

We've found these candidate Business Objects in the import file which can be imported as new Business Objects. You can also change the display label and Name of the Business Objects.

File Name	Display Label After Import	New Object Name
rraCustomers.csv	Customers	rraCustomers

- Select the **customerId** checkbox under **Key** and click **Finish**.

billingAddressState	BillingAddressState	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CA
contextKey	@context/key	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>	124
customerAddressId	CustomerAddressId	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>	124
customerAddressId1	CustomerAddressId1	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>	124
customerId	CustomerId	#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	124
customerName	CustomerName	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pete Chevis
customerNumber	CustomerNumber	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C00000124

- The new business object is created and the CSV data is loaded. Click **Close**.

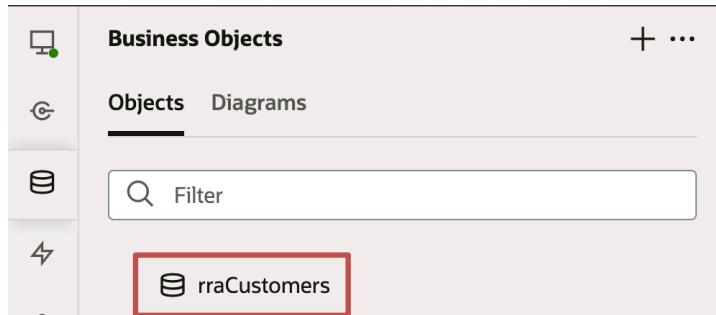
## Applying Changes

Data import finished successfully.

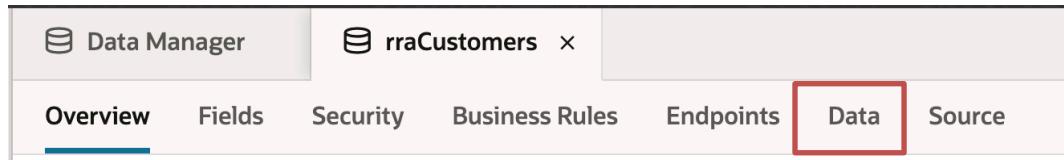
**RraCustomers: 400 exist**

Import complete for **Customers**

11. Confirm the data loaded successfully. Click the new rraCustomers icon in the Business Objects pane.



12. Click the **Data** tab.



The data displays.

13. Close the **rraCustomers** tab when you are done viewing the data.

The screenshot shows the "Data" tab in the "rraCustomers" interface. The top navigation bar includes "Data Manager", "rraCustomers" (highlighted with a red box), "Overview", "Fields", "Security", "Business Rules", "Endpoints", "Data" (selected), and "Source". The main area is titled "Query" and contains a table with 16 rows of customer data. The columns are: billingAddressCity, billingAddressCountry, billingAddressLine1, billingAddressLine2, billingAddressPostalCode, billingAddressState, contextKey, customerAddressId, customerAddressId1, customerId, and custom. The last column, "custom", lists names such as Tammy, Roy W., Gary J., Victor S., Beverly, Evelyn, Carl L., Douglas, Norma, Gregor, Judy E., Jean P., Michael, Elizabeth, Walter I., and Ralph F.

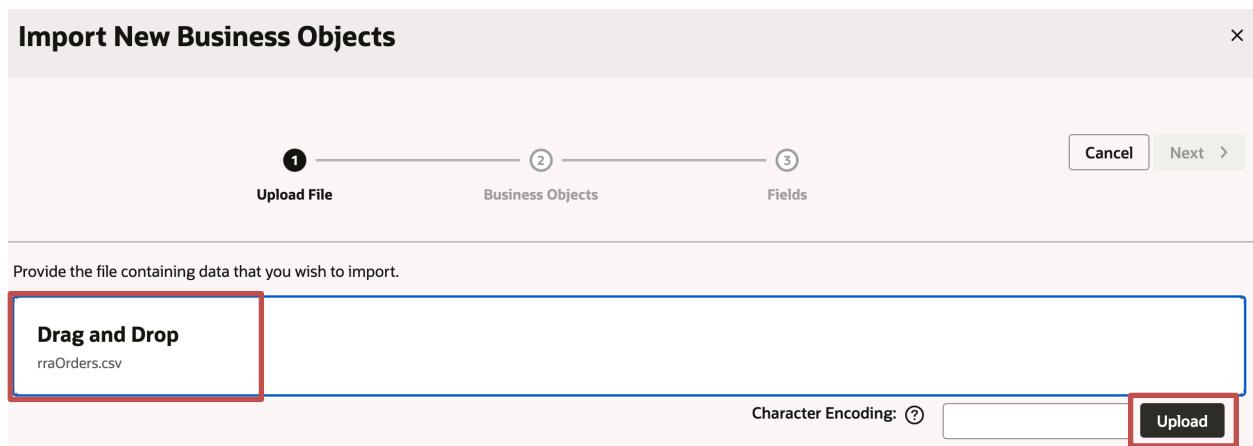
billingAddressCity	billingAddressCountry	billingAddressLine1	billingAddressLine2	billingAddressPostalCode	billingAddressState	contextKey	customerAddressId	customerAddressId1	customerId	custom
Pudding City	US	426 Chocolate Way	10op866	95086	CA	1	1	1	1	Tammy
Pudding City	US	689 Panacota Street	1op453	92683	CA	2	2	2	2	Roy W.
Fusion City	US	103 Pudding Street	15op475	93588	CA	3	3	3	3	Gary J.
Fusion City	US	130 Panacota Ave	17op490	91671	CA	4	4	4	4	Victor S.
Pudding City	US	880 Fusion Way	12op120	91359	CA	5	5	5	5	Beverly
Chocolate City	US	538 Panacota Ave	18op633	93078	CA	6	6	6	6	Evelyn
Fusion City	US	813 Pudding Blvd	5op890	91944	CA	7	7	7	7	Carl L.
Chocolate City	US	596 Fusion Road	9op186	90297	CA	8	8	8	8	Douglas
Fusion City	US	909 Chocolate Ave	18op959	90747	CA	9	9	9	9	Norma
Vision City	US	941 Pudding Way	22op772	94496	CA	10	10	10	10	Gregor
Pudding City	US	364 Chocolate Blvd	6op998	91150	CA	11	11	11	11	Judy E.
Pudding City	US	780 Fusion Blvd	25op423	91198	CA	12	12	12	12	Jean P.
Pudding City	US	370 Panacota Road	23op360	91279	CA	13	13	13	13	Michael
Pudding City	US	847 Pudding Ave	14op404	94148	CA	14	14	14	14	Elizabeth
Chocolate City	US	630 Fusion Street	5op888	94698	CA	15	15	15	15	Walter I.
Vision City	US	219 Fusion Road	21op765	95466	CA	16	16	16	16	Ralph F.

You will load the remaining data files in the same way.

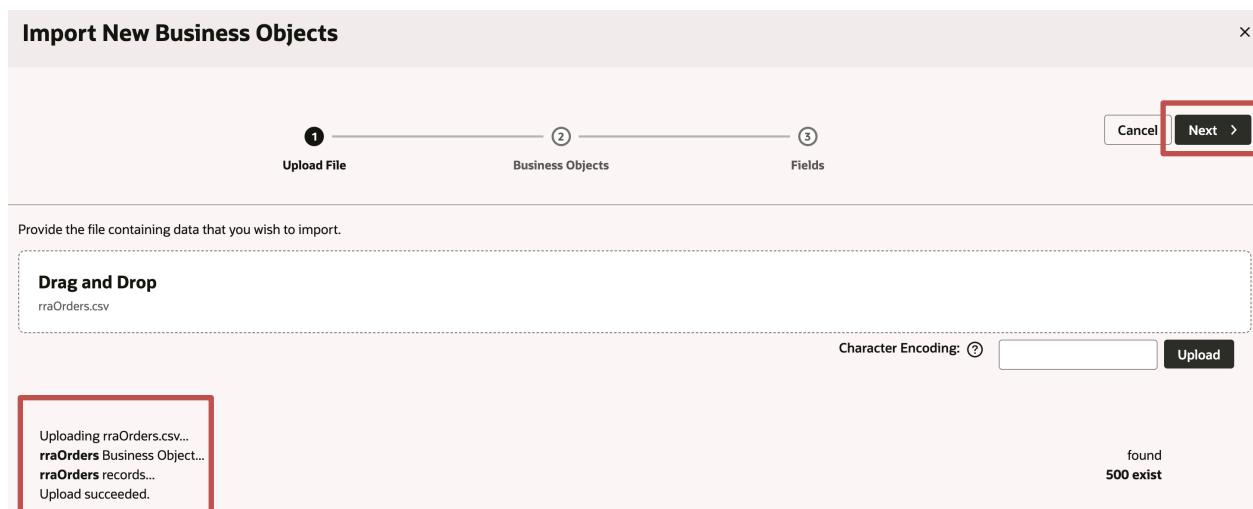
14. Return to the Data Manager tab. Click **Import Business Objects**.

15. Upload the **rraOrders.csv** file when prompted. Click **Upload** to start the upload.

**Note:** The `rraOrders.csv` file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it.



16. Click **Next** after the file has been uploaded.



17. Change the **Display Label After Import** to `Orders` and the **New Object Name** to `rraOrders` and click **Next**.

**Import New Business Objects**

1 Back      2 Business Objects      3 Fields      Next >

Business Objects

We've found these candidate Business Objects in the import file which can be imported as new Business Objects. You can also change the display label and Name of the Business Objects.

File Name	Display Label After Import	New Object Name
<input checked="" type="checkbox"/> rraOrders.csv	Orders	rraOrders

18. Select the **orderId** checkbox under **Key**.

orderId	OrderId	A <input type="checkbox"/> <input checked="" type="checkbox"/> 2022-08-13T15:43:33+00:00
orderId	OrderId	# <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 146
orderNumber	OrderNumber	A <input type="checkbox"/> <input checked="" type="checkbox"/> F000000146
orderStatus	OrderStatus	A <input type="checkbox"/> <input checked="" type="checkbox"/> DRAFT

19. Click the **#** sign for **customerId** and select the reference symbol  to create an association between Orders and Customers.

customerFirstName	CustomerFirstName	A
customerId	CustomerId	#

Type	Number
A #    	
	Reference <input type="button" value="X"/> <input checked="" type="button" value="✓"/>

20. For the **Referenced Business Object** select **rraCustomers** and for **Display Field** select **LastName** and click the check mark. Click **Finish** to load the data.

Type Reference

Referenced Business Object \*

rraCustomers

Display Field (?)

Last Name

21. The new business object is created and the CSV data is loaded. Click **Close**.



22. Return to the Data Manager tab. Click **Import Business Objects**.
  23. Upload the **rraProducts.csv** file when prompted. Click **Upload** to start the upload.  
**Note:** The `rraProducts.csv` file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it.

## Import New Business Objects

1 ————— 2 ————— 3

**Cancel** **Next >**

Upload File      Business Objects      Fields

Provide the file containing data that you wish to import.

**Drag and Drop**  
rraProducts.csv

Character Encoding: ②

**Upload**

24. Click **Next** after the file has been uploaded.

**Import New Business Objects**

Provide the file containing data that you wish to import.

**Drag and Drop**  
rraProducts.csv

Character Encoding: ⓘ  **Upload**

Uploading rraProducts.csv...  
rraProducts Business Object...  
rraProducts records...  
Upload succeeded.

found  
**38 exist**

25. Change the **Display Label After Import** to **Products** and the **New Object Name** to **rraProducts** and click **Next**.

**Import New Business Objects**

**Business Objects**  
We've found these candidate Business Objects in the import file which can be imported as new Business Objects. You can also change the display label and Name of the Business Objects.

File Name	Display Label After Import	New Object Name
rraProducts.csv	Products	rraProducts

26. Select the **productId** checkbox under **Key** and click **Finish**.

productCategoryId	ProductCategoryId	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
productCategoryId1	ProductCategoryId1	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
productId	ProductId	#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
productName	ProductName	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
productNumber	ProductNumber	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>

27. The new business object is created and the CSV data is loaded. Click **Close**.

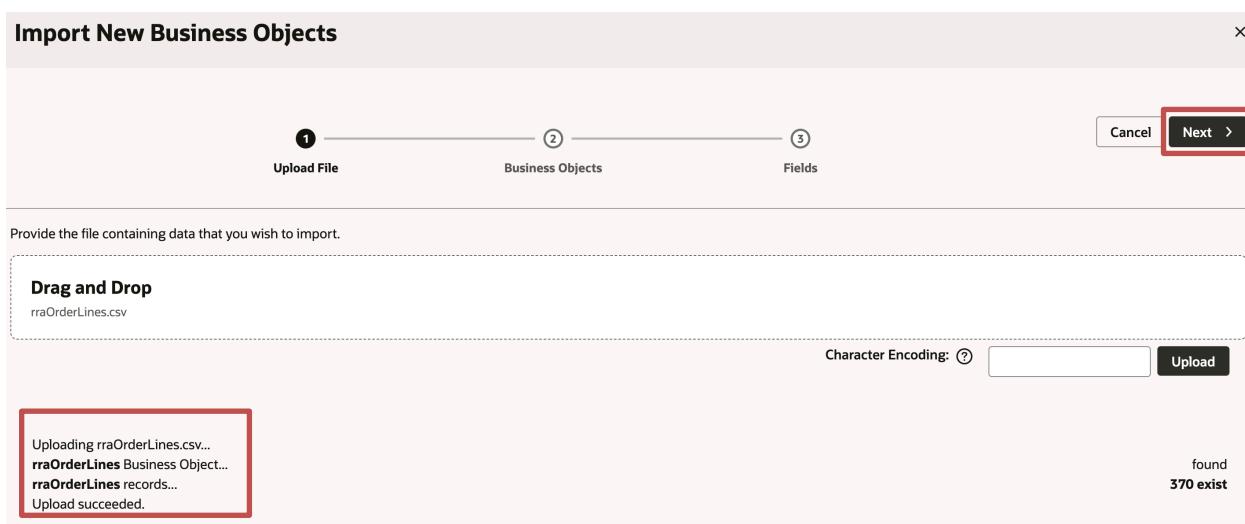


28. Return to the Data Manager tab. Click **Import Business Objects**.  
 29. Click the Data Manager tab. Click **Import Business Objects**.  
 30. Upload the **rraOrderLines.csv** file when prompted. Click **Upload** to start the upload.

**Note:** The **rraOrderLines.csv** file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it.



31. Click **Next** after the file has been uploaded.



32. Change the **Display Label After Import** to OrderLines and the **New Object Name** to rraOrderLines and click **Next**.

## Import New Business Objects

< Back      ① Upload File      ② Business Objects      ③ Fields      Next >

**Business Objects**

We've found these candidate Business Objects in the import file which can be imported as new Business Objects. You can also change the display label and Name of the Business Objects.

File Name	Display Label After Import	New Object Name
rraOrderLines.csv	OrderLines	rraOrderLines

33. Select the **orderLineId** checkbox under **Key**.

objectVersionNumber1	ObjectVersionNumber1	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
orderId	OrderId	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
orderLineId	OrderLineId	#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

34. Click the # sign for **orderId** then select the reference symbol  to create an association between OrderLines and Orders. Select **rraOrders** for the Referenced Business Object. Select **OrderNumber** for the Display Field and click the check mark.

objectVersionNumber1	ObjectVersionNumber1	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
orderId	OrderId	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Type	Reference
A # 🗓️ 🗂️ 🗑️ ⏳ ↴	
<b>Referenced Business Object *</b>	
rraOrders	
<b>Display Field ?</b>	
OrderNumber	
<input type="button" value="X"/> <input checked="" type="button" value="✓"/>	

35. Click **Finish** to load the data.



36. The new business object is created and the CSV data is loaded. Click **Close**.

37. Return to the Data Manager tab. Click **Import Business Objects**.

38. Upload the **rraSuppliers.csv** file when prompted. Click **Upload** to start the upload.

**Note:** The `rraSuppliers.csv` file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it.

Import New Business Objects

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3

Upload File      Business Objects      Fields

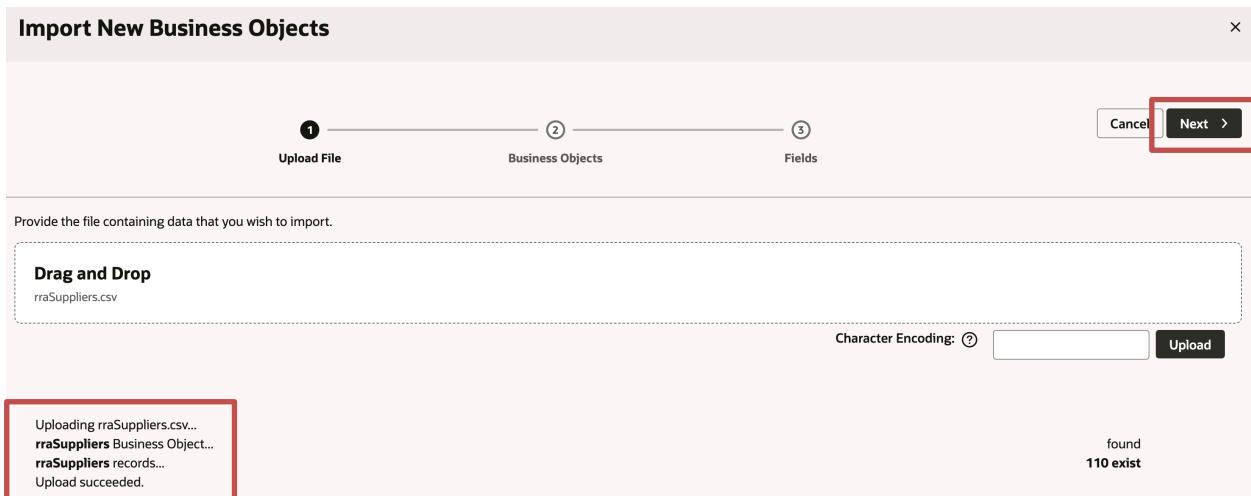
Cancel Next >

Provide the file containing data that you wish to import.

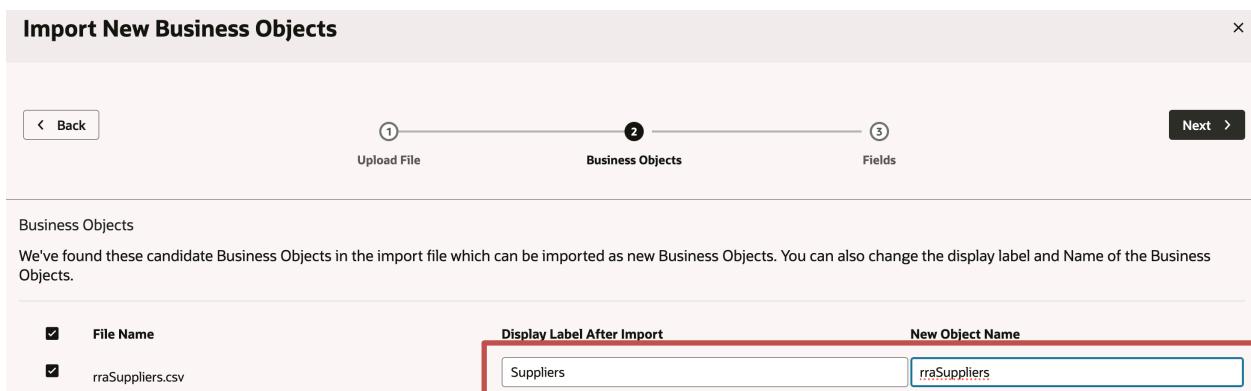
Drag and Drop  
rraSuppliers.csv

Character Encoding: ⓘ

39. Click **Next** after the file has been uploaded.



40. Change the **Display Label After Import** to **Suppliers** and the **New Object Name** to **rraSuppliers** and click **Next**.



41. Select the **supplierId** checkbox under **Key** and click **Finish**.

phone	Phone	#	<input type="checkbox"/>	<input checked="" type="checkbox"/>
supplierId	SupplierId	#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
supplierName	SupplierName	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>

42. The new business object is created and the CSV data is loaded. Click **Close**.

## Applying Changes

Data import finished successfully.

**RraSuppliers: 110 exist**

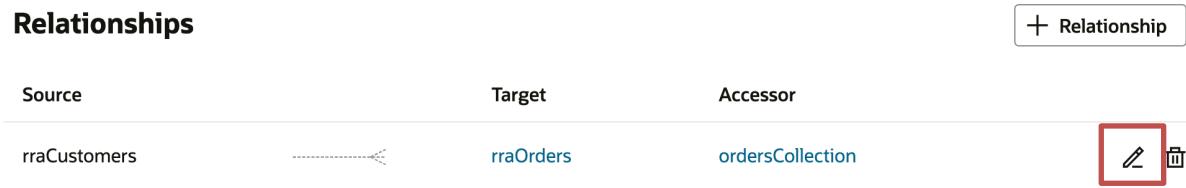
Import complete for **Suppliers**

**Complete loading the data model by enabling the accessors for Customer-Orders and Orders-OrderLines.**

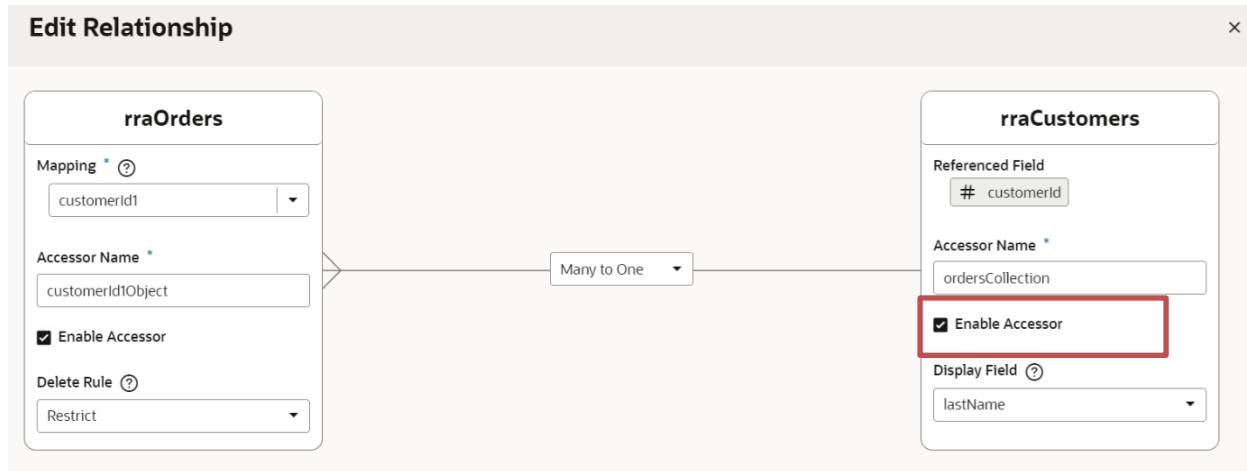
43. Click the **rraCustomers** Business Object icon. Click the Overview tab.

The screenshot shows the Business Objects interface. On the left is a sidebar with various icons. In the main area, there's a header "Business Objects" with a search bar below it. Below the search bar is a tab bar with "Objects" and "Diagrams". A list of objects follows, with "rraCustomers" highlighted by a red box. Below this list is a navigation bar with tabs: "Data Manager", "rraCustomers", "Overview", "Fields", "Security", and "Business Rules". The "Overview" tab is also highlighted by a red box.

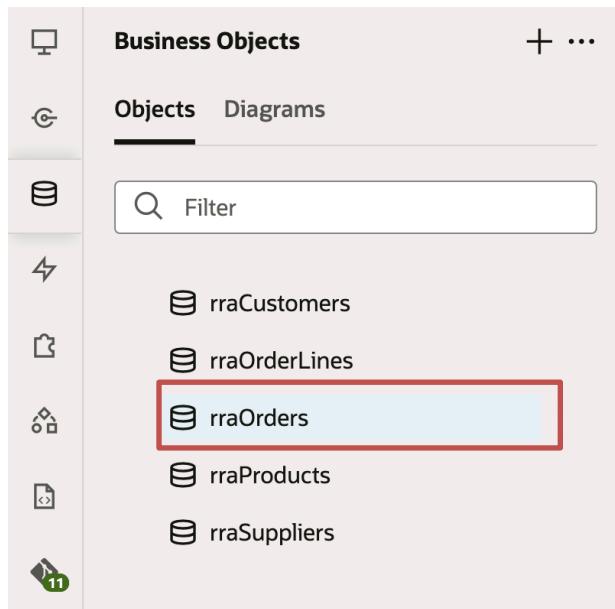
44. On the right side, click the pencil icon to edit the relationship.



45. Click the checkbox to **Enable Accessor** for rraCustomers. This will provide access to a list of orders for a given customer. You will use this later when displaying all the orders for a selected customer. Click **Save**.



46. Click the **rraOrders** Business Object icon.

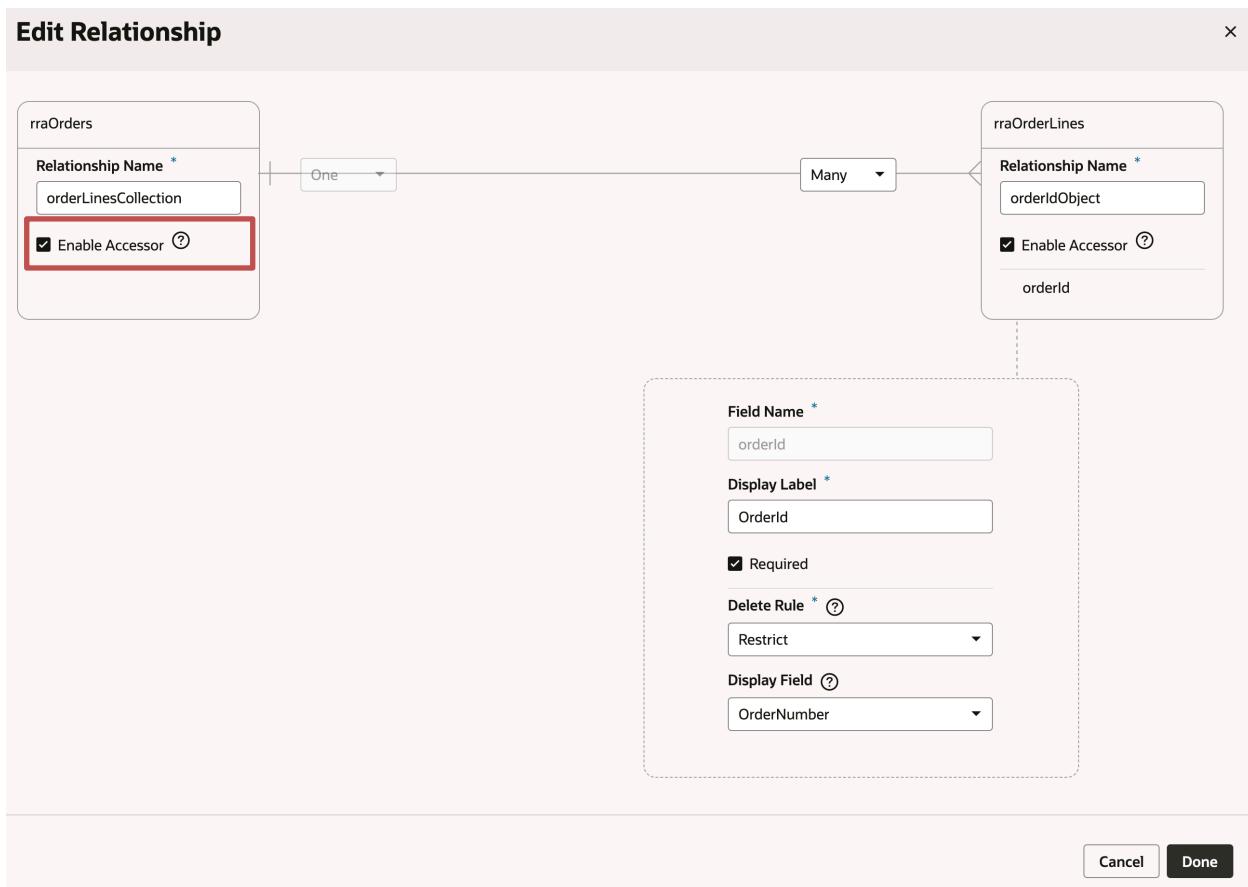


47. On the Overview tab, on the right side, click the pencil icon to edit the relationship for **rraOrders** and **rraOrderLines**.

Relationships			
Source	Target	Accessor	
rraOrders	rraCustomers	customerIdObject	
rraOrders	rraOrderLines	orderLinesCollection	

48. Click the checkbox to **Enable Accessor** for rraOrders.

This will provide list of order lines for a given order. You will use this later when displaying all the order lines for a selected order. Click **Save**.



49. Confirm your work. Click the rraOrders **Data** tab. If you scroll over, you should see the customerId column showing the customer last name and the **customerId** in parentheses.

ressState	billToAddressid	comments	contextKey	currencyCode	customerAddressid	customerAddressid1	customerFirstName	customerId	customerid1	customerLastName	displayStatus	id
1	1	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	215	
1	2	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	216	
1	3	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	217	
1	4	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	218	
1	5	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	219	
1	6	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	220	
1	7	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	221	
1	8	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	222	
1	9	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	223	
1	10	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	224	
1	11	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	225	
1	12	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	226	
1	13	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	227	
1	14	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	228	
1	15	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	229	
1	16	USD	1	1	1	Tammy	Bryant (1)	1	Bryant	Processing	230	

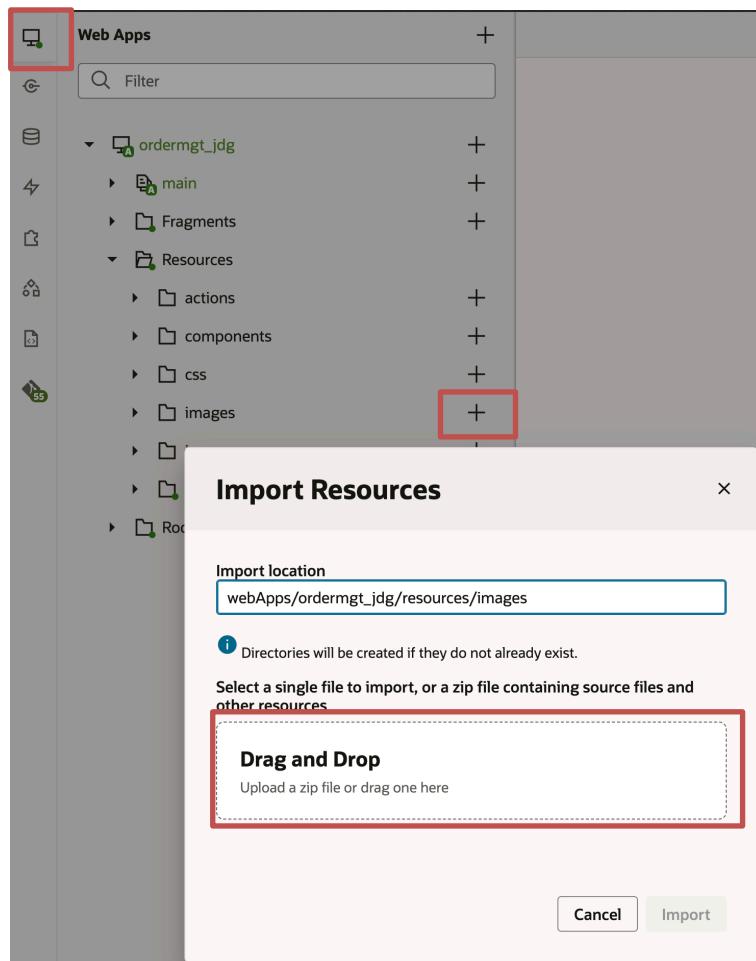
50. Click the **rraOrderLines** Business Object icon and then click the **Data** tab. The orderId column includes the Order Number displayed in parentheses.

amount	contextKey	currencyCode	deliveredDate	id	imageUrl	listPrice	objectVersionNumber	objectVersionNumber1	orderId	orderLineid	productId	productId'
1420	146001	USD		4	images/GreenGatePrinter01.jpg	355	1	1	F000000146 (146)	46001	38	38
745	146002	USD		5	images/OroWhiteAngle.png	149	1	1	F000000146 (146)	46002	7	7
995	146003	USD		3	images/HeadphoneRDA800.jpg	199	1	1	F000000146 (146)	46003	19	19
1494	146004	USD		1	images/SmartPink05.png	249	1	1	F000000146 (146)	46004	14	14
2241	146005	USD		2	images/SmartPink05.png	249	1	1	F000000146 (146)	46005	14	14
5391	147001	USD		6	images/QuantumLaptop01.jpg	599	1	1	F000000147 (147)	47001	25	25
623	147002	USD		7	images/AlphaLogicKeyboard01.jpg	89	1	1	F000000147 (147)	47002	28	28
1992	147003	USD		8	images/HeadphoneRDA850.jpg	249	1	1	F000000147 (147)	47003	20	20
149	148001	USD		9	images/OroPinkAngle.png	149	1	1	F000000148 (148)	48001	6	6
375	148002	USD		10	images/SmartWatch05.jpg	125	1	1	F000000148 (148)	48002	16	16
232	148003	USD		13	images/AlphaLogicMouse01.jpg	29	1	1	F000000148 (148)	48003	30	30
699	148004	USD		11	images/GreenTablet01.jpg	699	1	1	F000000148 (148)	48004	24	24
498	148005	USD		12	images/HeadphoneRDA850.jpg	249	1	1	F000000148 (148)	48005	20	20
1494	149001	USD	May 25, 2022	17	images/HeadphoneRDA850.jpg	249	1	1	F000000149 (149)	49001	20	20
498	14900	USD	May 29, 2022	18	images/HeadphoneRDA850.jpg	249	1	1	F000000149 (149)	49002	20	20
747	149003	USD	May 26, 2022	16	images/SmartBlue05.png	249	1	1	F000000149 (149)	49003	13	13

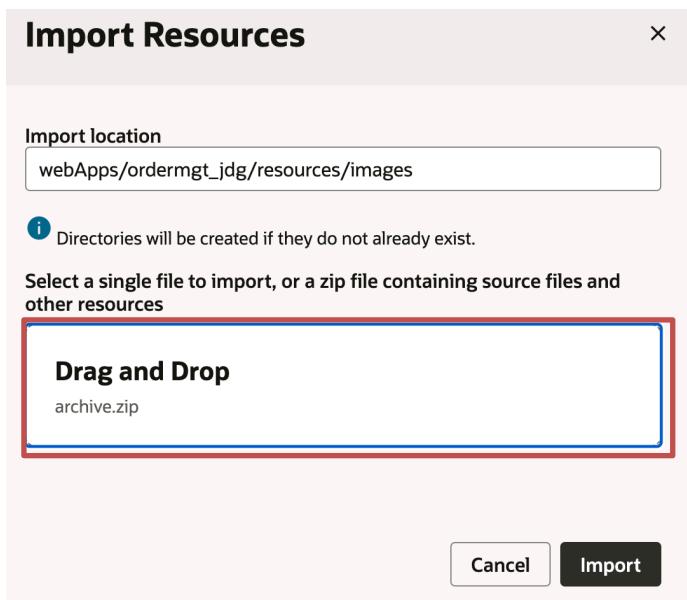
51. Close all open tabs.

**Tip:** Right-click any tab and select **Close All Tabs**.

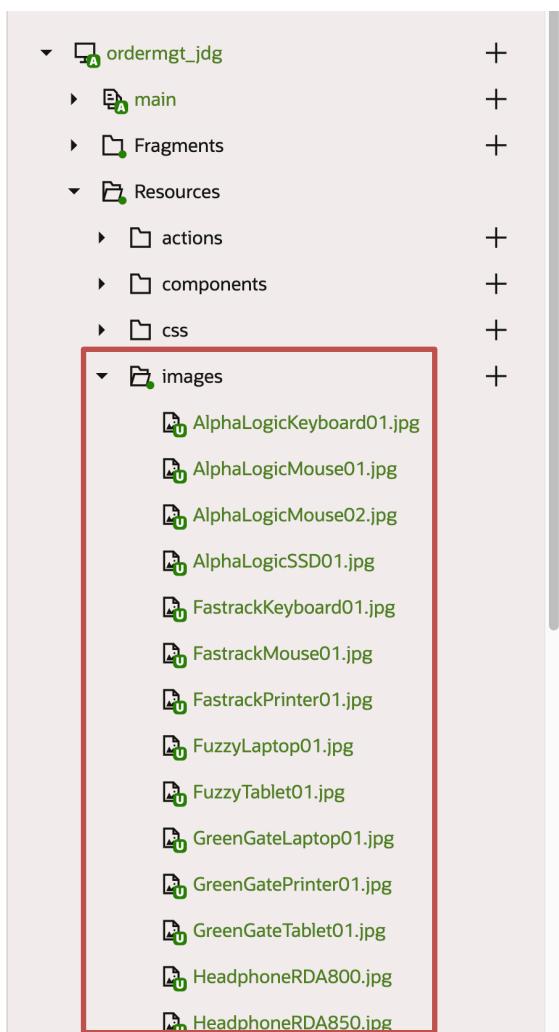
52. Load the zip file with product images. The `archive.zip` file is provided as part of the course lab files. You previously downloaded this as part of the ZIP file and unzipped it. Click the **Web Apps** tab and expand `ordermgt_<your initials>`. Expand the **Resources** folder under `ordermgt_<your initials>` and click the **+** for **images**.



53. Drag the **archive.zip** file to the dialog box or click the **Drag and Drop** box and locate the file on your computer and click **Import**.



54. When the import is done, expand the **images** folder to confirm the images have been loaded.



This completes this practice.

## Practice 2-2: Configure the Welcome Page – Orders to Be Saved (“DRAFT”)

### Overview

In this practice, you configure the Welcome page, which lists draft orders that need to be saved.

The screenshot shows the 'Welcome to My Redwood Reference App' page. At the top left, there is 'Overline Text' and the app's name. Below it is a sub-header 'Create and submit orders and review information about inventory'. To the right is a decorative illustration of a person paragliding over a forest. The main content area is titled 'Draft orders needing your attention' and displays eight draft order cards arranged in two rows of four. Each card includes an order ID, customer name, product image, and a summary line. The bottom row has two cards per row.

Order ID	Customer Name	Product Image	Summary
F000000313	Kathryn Rogers		DRAFT \$5151....
F000000314	Kathryn Rogers		DRAFT \$1664....
F000000315	Kathryn Rogers		DRAFT \$4481....
F000000330	Dennis Lopez		DRAFT \$4640....
F000000331	Dennis		
F000000333	Dennis		
F000000146	Norma		
F000000147	Norma		

### Assumptions

You have successfully completed Practice 2-1.

## Tasks

If Visual Builder Studio Designer is still open from the last lesson, skip to step 4.

1. Log in to **Visual Builder Studio** and select your project name on the **Projects** tab. Your project name will be **OrderMgt\_<your initials>**, where **<your initials>** corresponds to your initials.

The screenshot shows the Visual Builder Studio interface. On the left is a sidebar with icons for Organization, Project Home, Workspaces, Git, Merge Requests, Maven, NPM, Docker, Builds, Releases, Environments, and Issues. The main area is titled "Visual Builder Studio" and "Organization". The "Projects" tab is selected. A search bar and filters for Member, Favorites, Owner, Shared, and All are at the top. Below is a table with a single row for "OrderMgt\_JDG". The row is highlighted with a red box, and the word "Current" is in a blue button. The table has columns for Name, Template, Favorite, and Status. The status is "Active".

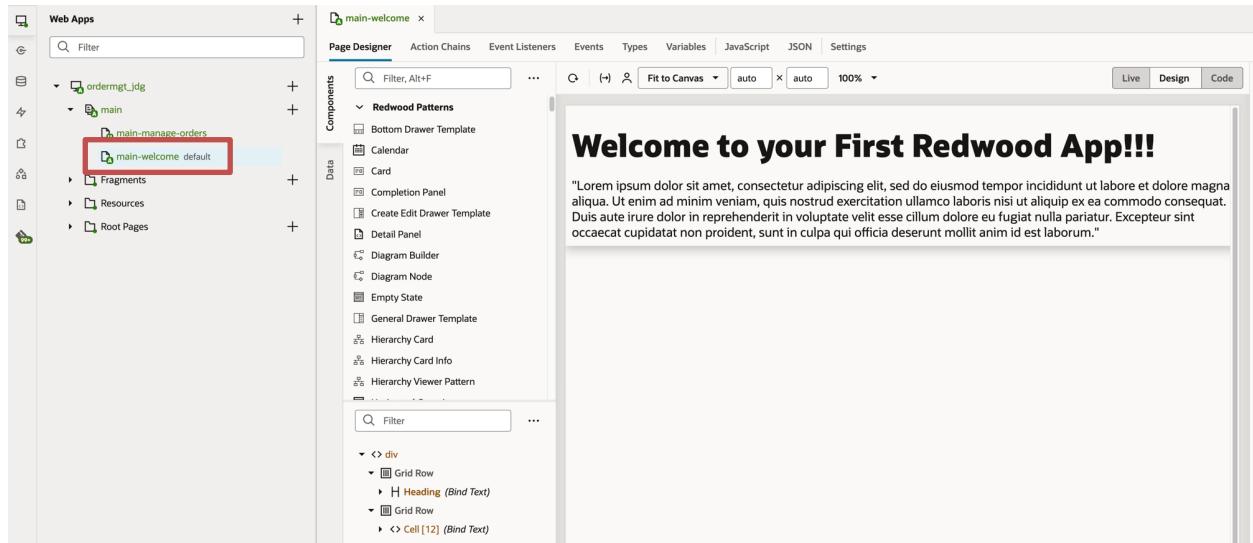
Name	Template	Favorite	Status
OrderMgt_JDG <span style="background-color: #0070C0; color: white; border-radius: 5px; padding: 2px 5px;">Current</span>	Order Management Applic...	<span style="color: #A0A0A0;">★</span>	● Active

2. The Project Home page opens. Right-click the **OrderMgt\_<your initials>** workspace and select **Open in New Tab**.

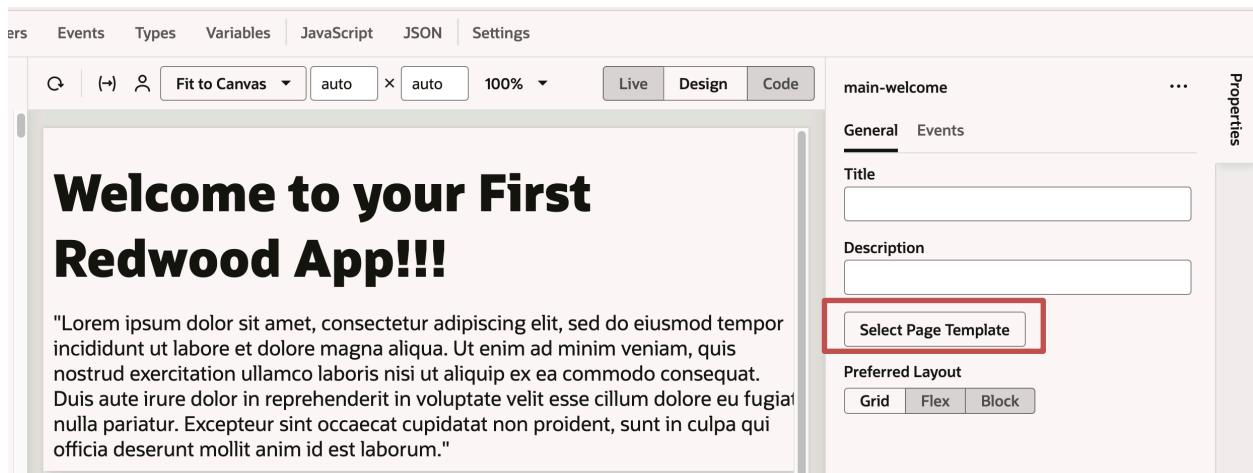
The screenshot shows the Visual Builder Studio interface with "OrderMgt\_JDG" selected in the top navigation. The sidebar is identical to the previous screenshot. The main area shows a "Workspaces" section with a list. The first item, "OrderMgt\_JDG" (Visual Application), has a context menu open. The menu items are: Open in New Tab (highlighted with a red box), Rename, Export Visual Application, Switch Environment, Change Ownership, and Delete. Below the menu is a "Develop" section showing "1 service instance".

3. Close the **Getting Started** tab if it's open.

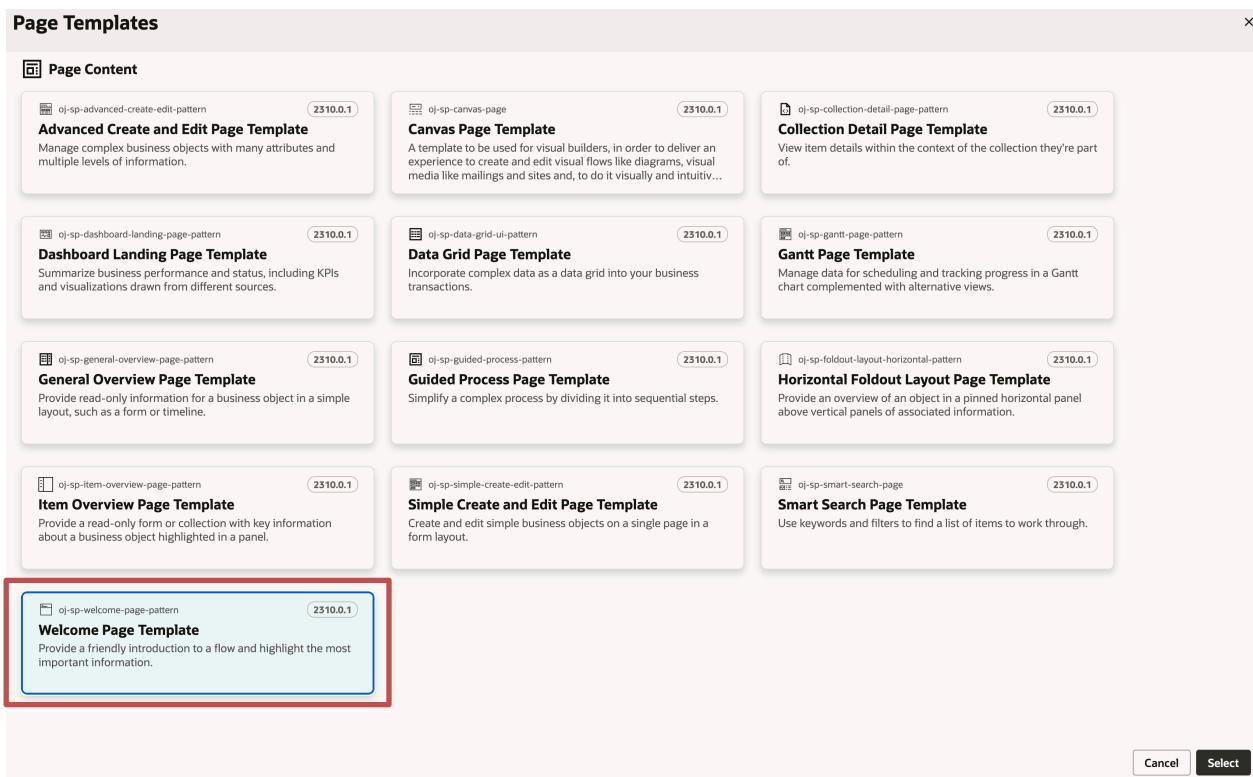
4. Select the **Web App** tab in the Navigator. Expand **ordermgmt\_<your initials>**. Expand **main**. Select the **main-welcome** page. It opens in Page Designer.



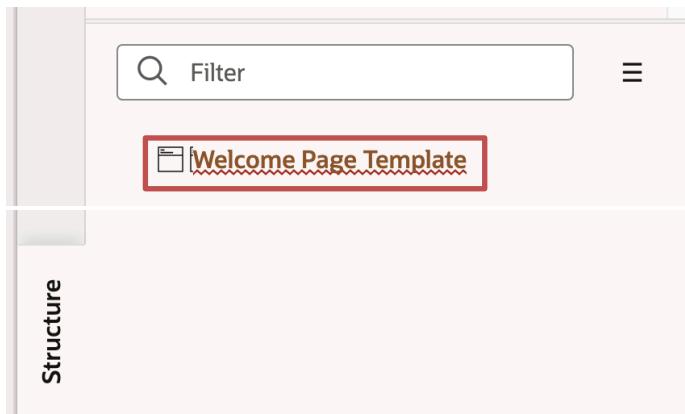
5. Click the **Select Page Template** button in the Property pane.



6. From the Page Templates dialog box, select the **Welcome Page Template** and click **Select**.

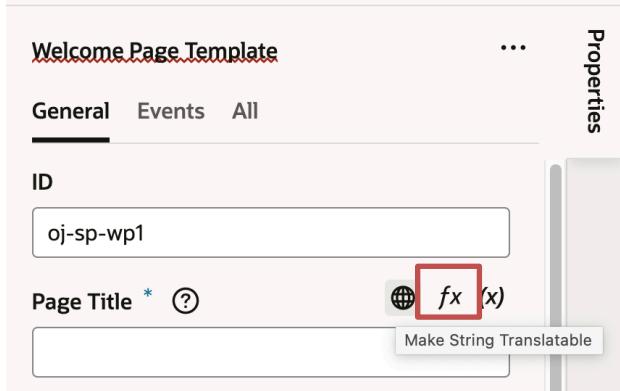


7. On the **main-welcome** page, select the **Welcome Page Template** element in the **Structure** pane.



8. In the **Property** pane for the **Welcome Page Template** on the right, click the globe icon for the **Page Title** to add the title as a translatable string.

**Tip:** Hover your mouse to the right of the property name to see the icons.



9. Click **Create New** and enter: Welcome to My Redwood Reference App. Click **Save**.

## Translatable String

Create New  Use Existing

**Create a new string**

**String**  
Welcome to My Redwood Reference App

**Description**

**Key**  
oj\_sp\_wp1\_page\_title

**Bundle**  
application > AppBundle

**Cancel** **Save**

The reference to the translatable string is inserted and the page title is updated. Notice the referenced translatable string appears below the Page Title property.

10. Click the globe for the **Description** property. Create a new translatable string of: Create and submit orders and review information about inventory.

### Translatable String

Create New  Use Existing

#### Create a new string

##### String

Create and submit orders and review information about inventory

##### Description

##### Key

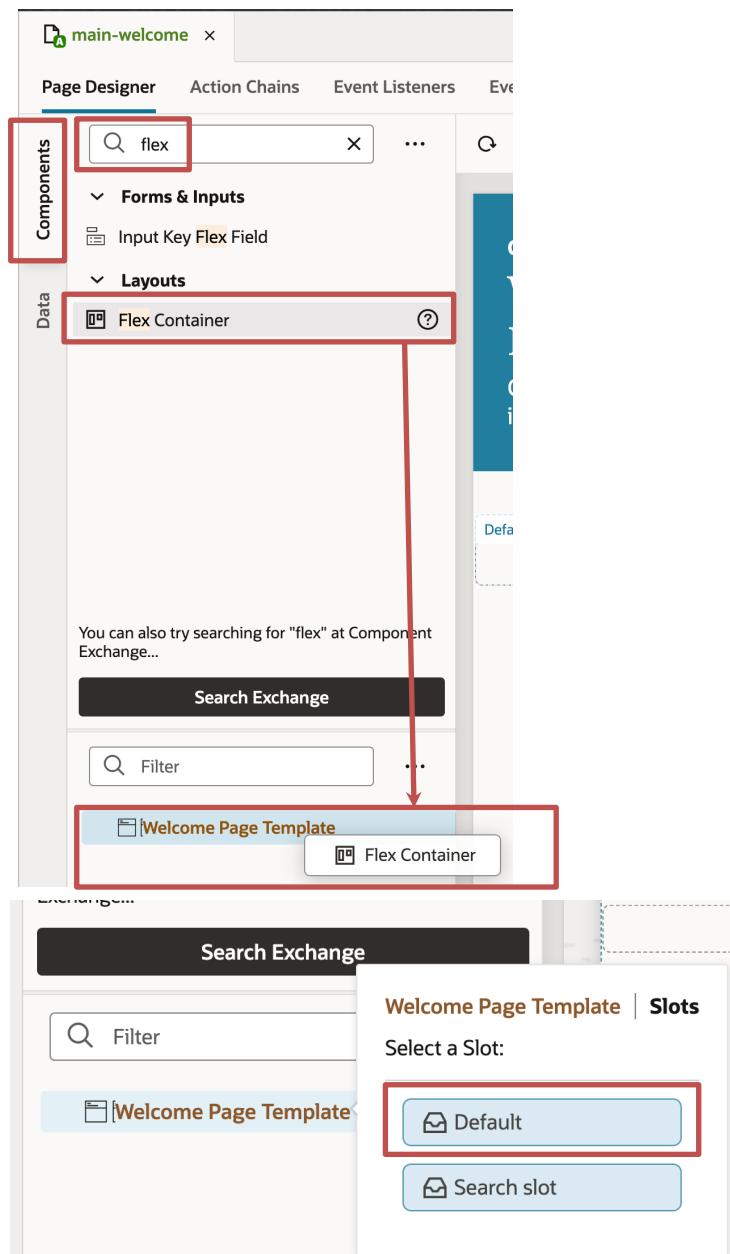
oj\_sp\_wp1\_description\_text

##### Bundle

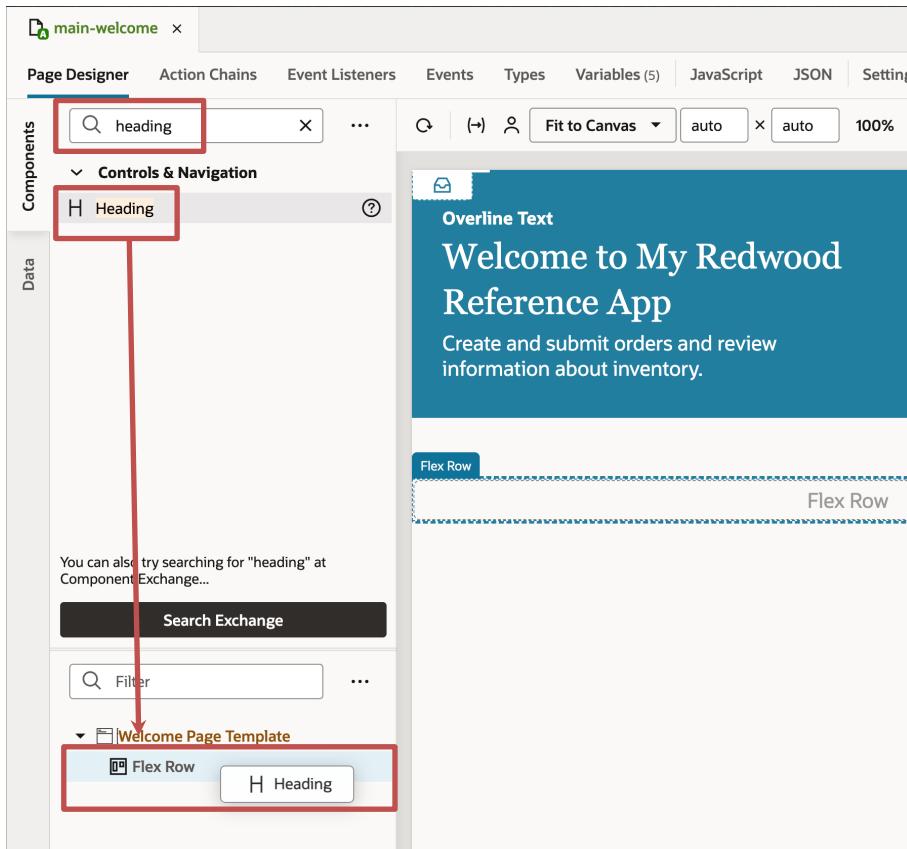
application > AppBundle

[Cancel](#) [Save](#)

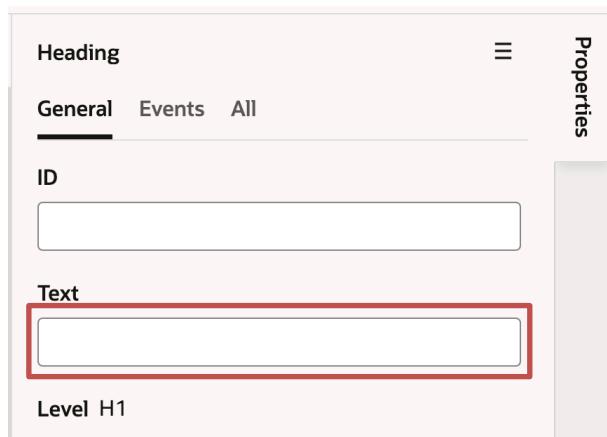
11. From the **Components** palette, find the **Flex Container** component and drag it onto the **Welcome Page Template** in the **Structure** pane to add header text to the main page. When prompted, choose the **Default** slot.



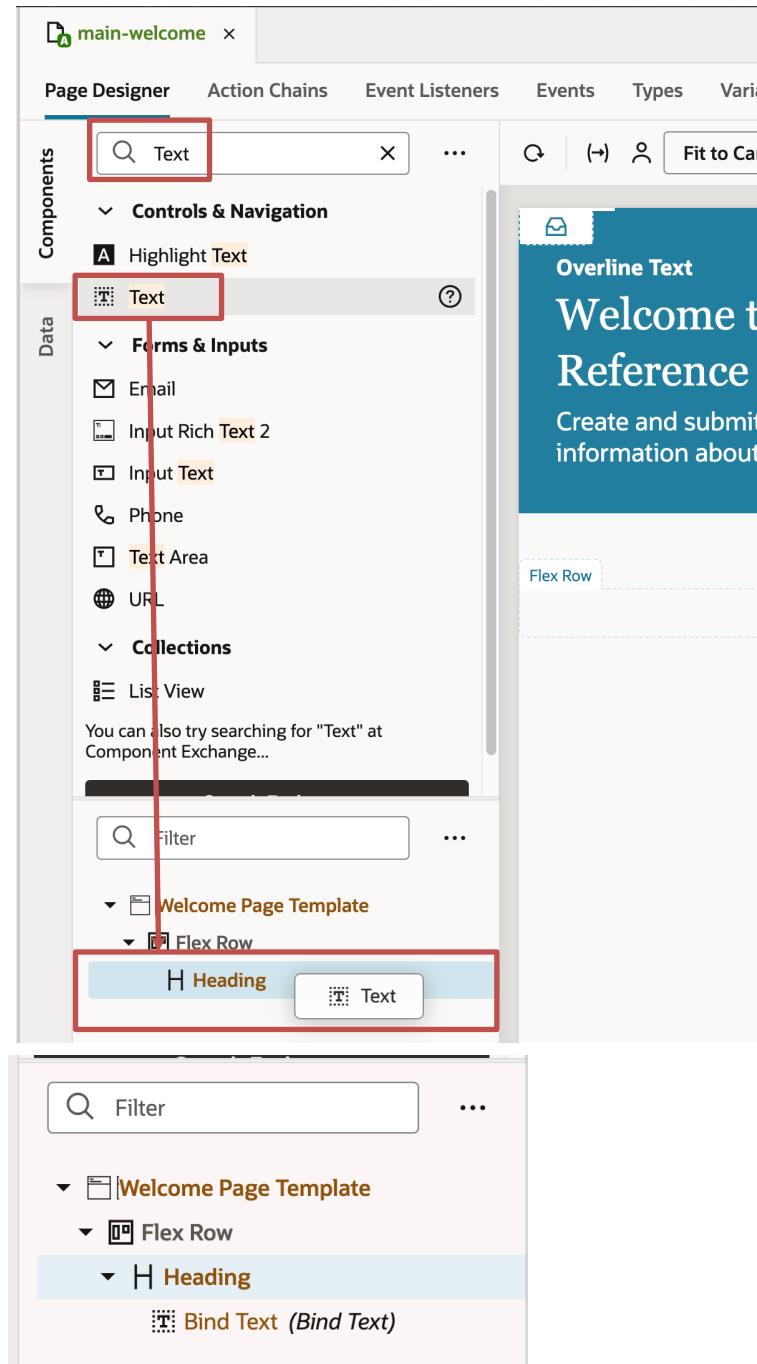
12. Add a **Heading** component to the new Flex Row.



13. Delete the text “Heading” from the Heading component’s **Text** property.



14. Add a **Text** component to the Heading. It displays as **Bind Text**.



15. Select the **Bind Text** component. In the **Value** property for the **Bind Text** component, click the globe and create a new translatable string: Draft orders needing your attention.

```

    ▼ ┌ Welcome Page Template
      └ ┌ Flex Row
        └ ┌ H Heading
          └ Bind Text (Bind Text)
  
```

### Translatable String

Create New
  Use Existing

Create a new string

**String**

Draft orders needing your attention.

**Description**

**Key**

bind\_text\_value

**Bundle**

application > appBundle

Cancel
Save

16. Use **Styles** to format the text. Click the **Heading** element in the **Structure** pane and enter these class styles:

**Hint:** you can copy these from the code file you downloaded.

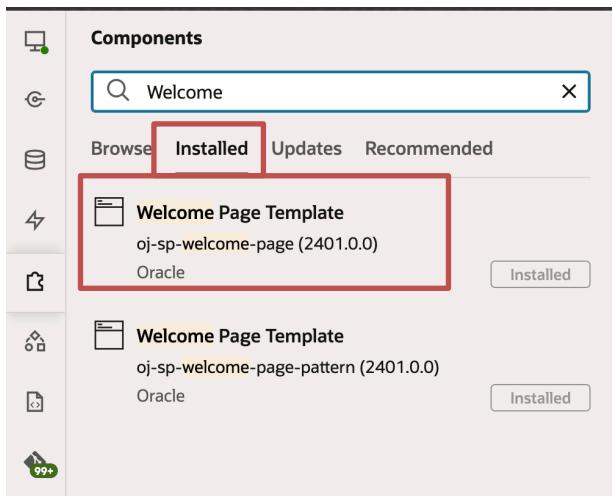
- oj-header
- oj-sm-12
- oj-sp-typography-display-6
- oj-helper-truncate
- oj-sm-padding-8x-horizontal

Notice the font is changed by the typography class and the padding has moved the text in from the left.

17. Change the **banner color** and **background illustration**. Possible values are provided in the documentation for the Welcome Page Template. Select the **Components** icon in the Navigator to view the documentation.



18. Select the **Installed** tab and enter **Welcome** in the **Search** field. Select the **Welcome Page Template**. Do not select the pattern. The documentation for the page template appears.



19. Scroll down and look for **Step 2 Configure the background color and illustrations**. Notice the list of colors. Below that is the list of available illustrations for the background.

The screenshot shows the Oracle Visual Builder interface. At the top, there's a navigation bar with tabs for 'main-welcome' and 'Component'. Below the navigation is a preview area showing a simple page template with a header and a main content area. The title of the component is 'Welcome Page Template 2401.0.0'. Underneath the title, it says 'oj-sp>Welcome-page-pattern'. It also shows 'Oracle | 0 | Redwood Page Templates | License' and 'Tags: Redwood, visual-builder-only, distribution:production'. Below the preview, there are sections for 'Description' and 'Changelog'. A note states: 'When creating a new page inside Visual Builder select Welcome Page. The banner area is filled with d'. The main content area contains the following steps:

**Step 2 Configure the background color and illustrations.**

In this step, select the background color from one of the predefined values and specify the source URL for the background illustration.

**Step 2.1 When display-options.image-stretch property is set to default value none.**

1. Select the background color from one of these values: In co-branding use cases with end-user accessible background color.
  - dark-ocean
  - dark-pine
  - dark-lilac
  - dark-teal
  - dark-rose
  - dark-pebble
  - dark-slate
  - dark-plum
  - dark-sienna
  - auto
2. Set up the background illustration. Either select from one of the predefined background illustrations or point to the URL for background illustration.

**Note:** The background illustration size must be 640px x 352px.

3. Point the illustration-background property to the URL for background illustration.

Here are the available background stock images:

- illust-welcome-banner-bg-01.png
- illust-welcome-banner-bg-02.png
- illust-welcome-banner-bg-03.png
- illust-welcome-banner-bg-04.png
- illust-welcome-banner-bg-05.png

**Step 2.2 When display-options.image-stretch property is set to stretch.**

4. Set up the foreground illustration. Either select from one of the predefined foreground illustrations or point to the URL for foreground illustration.

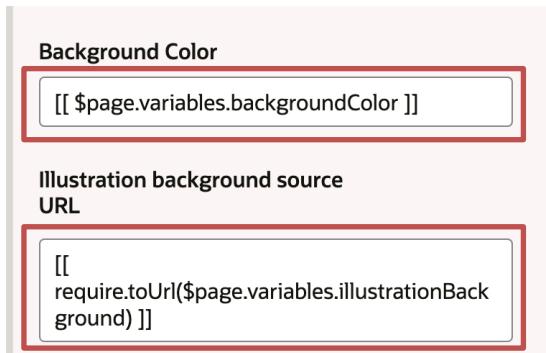
**Note:** The foreground illustration size must be 640px x 228px.

5. Point the illustration-foreground property to the URL for foreground illustration.

Here are the available foreground stock images:

- illust-welcome-banner-fg-01.png
- illust-welcome-banner-fg-02.png
- illust-welcome-banner-fg-03.png
- illust-welcome-banner-fg-04.png
- illust-welcome-banner-fg-05.png

20. Click the **main>Welcome** tab to return to the page. Select the **Welcome Page Template** in the **Structure** pane. Notice the **Background Color** and **Illustration background source URL** properties both use variables to provide their values. This is common practice in VBS and Redwood components. Click the **Variables** tab to change these values.

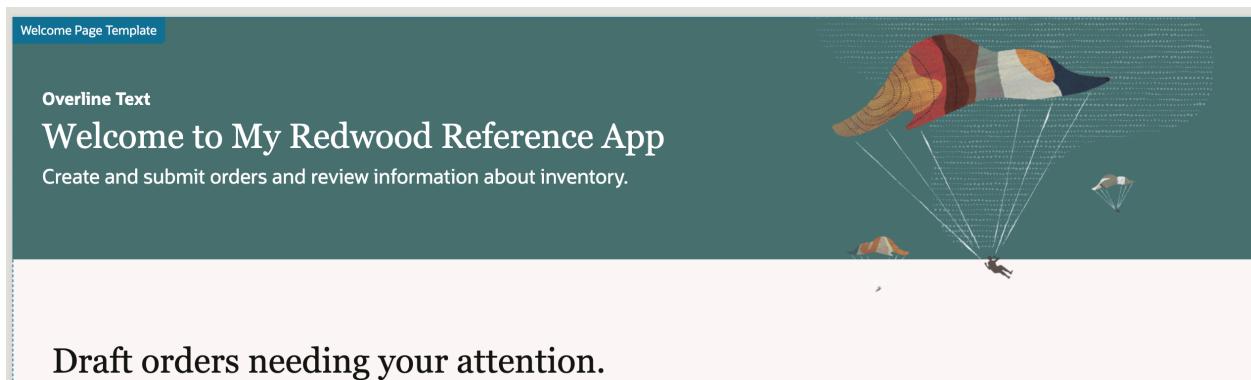


21. Select the **backgroundColor** variable. Change its **Default Value** to dark-teal.

Variable	
General	Events
ID *	backgroundColor
Type *	String
Label	
Description	
Input Parameter	<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Enabled <input type="checkbox"/> Required <input type="checkbox"/> Pass On URL
Default Value	dark-teal

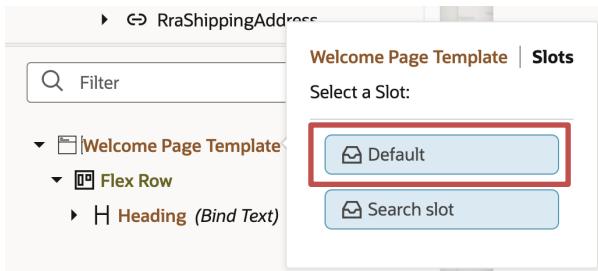
22. Select the **illustrationBackground** variable and change its **Default Value** to:  
<https://static.oracle.com/cdn/fnd/gallery/2307.0.2/images/illust-welcome-banner-bg-02.png>  
**Hint:** Just change the **bg-01** portion of the URL to **bg-02**. Position your cursor in the field and scroll all the way to the right.

23. Click the **Page Designer** tab to view the results. The background color and illustration are changed.

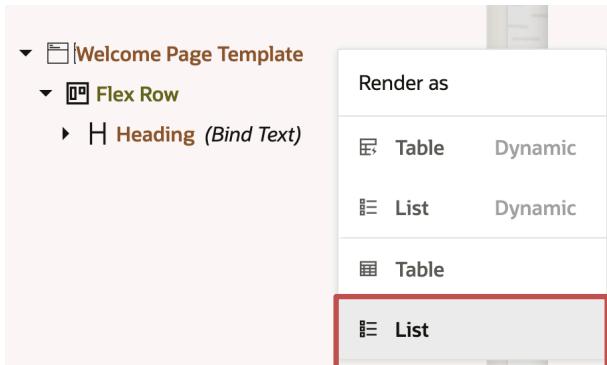


24. Add the data source from a Business Object. Click the **Data** tab and expand **Business Objects > rraOrders**. Drag **Get Many** from rraOrders onto the **Welcome Page Template** element in the **Structure** pane and select the **Default** slot when prompted.

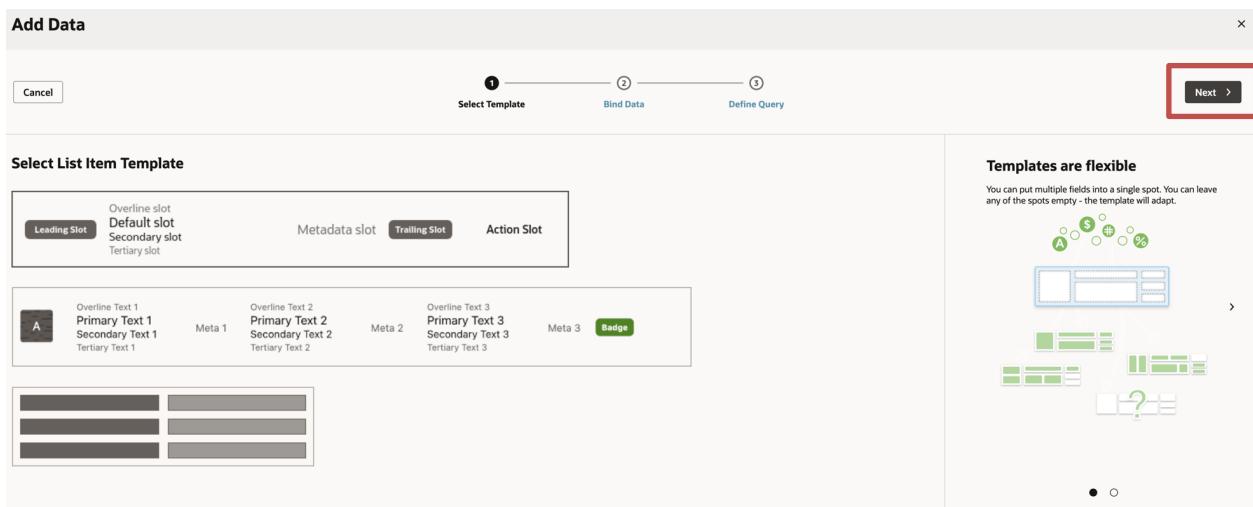
The screenshot shows the Oracle Redwood Page Designer interface. On the left, the 'Data' tab is selected in the sidebar. In the main area, under 'Components', the 'Business Objects' section is expanded, showing 'rraCustomers', 'rraOrders', 'rraSuppliers', and 'rraTrainings'. The 'rraOrders' section is further expanded, showing a 'GET /rraOrders' service. This service has a 'Business Object' icon next to it, and the action 'get\_all\_rraOrders' is listed. A red box highlights the 'Get Many' button next to the service name, and a red arrow points from this button down to the 'Welcome Page Template' element in the Structure pane. The 'Welcome Page Template' element is also highlighted with a red box in the Structure pane. The Structure pane itself shows a hierarchical tree with 'Flex Row' and 'Heading' components.



25. Choose **Render as List** when prompted.



26. The Add Data dialog box appears. Click **Next** to accept the **List Item Template**.



27. Select the following fields. Do not worry about the order, you will override this shortly.  
**customerFirstName, customerLastName, orderId, orderNumber, orderStatus, totalAmount** and **orderLinesCollection > items > > item[i] > imageURL**.

### Endpoint Structure

Filter

- ▼ { } response
- ▼ [ ] items
- ▼ □ { } item[i]
  - A attachmentEntityName
  - A basketFlag
  - A billingAddressCity
  - A billingAddressCountry
  - A billingAddressLine11
  - A billingAddressLine21
  - # billingAddressPostalCode
  - A billingAddressState
  - # billToAddressId
  - A comments
  - # contextKey
  - A createdBy
  - { } creationDate
  - A currencyCode
  - # customerAddressId
  - # customerAddressId1
  - A customerFirstName
  - ↗ customerId
  - # customerId1
  - ▶ □ { } customerIdObject
  - A customerLastName

- A displayStatus
- # id
- { } lastUpdateDate
- A lastUpdatedBy
- ▶  [] links
  - # objectVersionNumber
  - # objectVersionNumber1
  - # objectVersionNumber2
  - # objectVersionNumber3
- A orderDate
- # orderId
- ▼  { } orderLinesCollection
  - # count
  - ☰ hasMore
- ▼  [] items
  - ▼  { } item[i]
    - # amount
    - # contextKey
    - A createdBy
    - { } creationDate
    - A currencyCode
    - ☰ deliveredDate
    - # id
    - A imageUrl

- { } lastUpdateDate
  - A lastUpdatedBy
  - ▶  [] links
    - # listPrice
    - # objectVersionNumber
    - # objectVersionNumber1
    - ↗ orderId
    - # orderLineId
    - # productId
    - # productId1
    - A productName
    - A productNumber
    - # quantity
    - # limit
  - ▶  [] links
    - # offset
    - # totalResults
  - A orderNumber
  - A orderStatus
  - # primaryBillingAddressId
  - # primaryShippingAddressId
  - A shippingAddressCity
  - A shippingAddressCountry
  - A shippingAddressLine11
- ▾ Shipping Address
- A shippingAddressCountry
  - A shippingAddressLine11
  - A shippingAddressLine21
  - # shippingAddressPostalCode
  - A shippingAddressState
  - # shipToAddressId
  - # totalAmount

28. For the **imageUrl** field, change it from Text to Image.

The screenshot shows the Oracle Business Objects interface. At the top, there is a modal window titled "Text" which lists various content types: Text, Hyperlink, Heading, Paragraph, Image, Input Text, and Text Area. The "Image" option is highlighted with a red border. Below this, the main template editor interface is visible. The template structure includes slots: Secondary slot, Tertiary slot, Metadata slot, and Trailing slot. The "imageUrl" field is located in the Trailing slot. A red box highlights the "imageUrl" field and the "Image" option in the modal. The main editor shows the "imageUrl" field has been changed to "Image".

**Template Structure:**

- Secondary slot: A orderNumber X
- Tertiary slot: A orderStatus X
- Metadata slot: # totalAmount X
- Trailing slot: A imageUrl X (highlighted with a red box)

**Template Fields:**

- Leading slot: A customerFirstName X (Text dropdown)
- Overline slot: A customerLastName X (Text dropdown)
- Default slot: # orderId X (Text dropdown)
- Secondary slot: A orderNumber X (Text dropdown)
- Tertiary slot: A orderStatus X (Text dropdown)
- Metadata slot: # totalAmount X (Text dropdown)
- Trailing slot: A imageUrl X (Image dropdown, highlighted with a red box)
- Action slot: Drop a field from Endpoint structure

**Primary Key:** orderId

**Include in row data:** Drop a field from Endpoint structure

**Navigation:** Select Template (1), Bind Data (2), Define Query (3), Next >

**29. Click **Next**.**

30. Click **filterCriterion** on the right, under **Target**.

- ## Target
- ▼ **getall\_rraOrders**
    - ▶ { } uriParameters
    - ▶ { } headers
    - ▶ { } filterCriterion

31. In the **Builder** at the bottom of the screen, click the **Click to add condition** link.

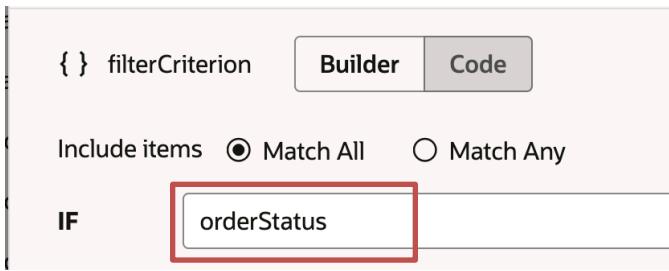
32. Select **orderStatus** for the first Attribute.

	Attribute
IF	
{ } filterCri	primaryBillingAddressId
Include item	primaryShippingAddressId
	shippingAddressCity
	orderStatus

{ } filterCriterion    [Builder](#)    [Code](#)

Include items  Match All  Match Any

IF



33. Change the operator from contains (\$co) to **equals (\$eq)**.

Include items  Match All  Match Any

IF



34. Select the second Attribute and enter DRAFT.



equals (\$eq) | ▾

{ } filterCriterion    [Builder](#)    [Code](#)

Include items  Match All  Match Any

IF



35. Click **Done**. Then click **Finish**.

After a moment, you will see a list of orders displayed.

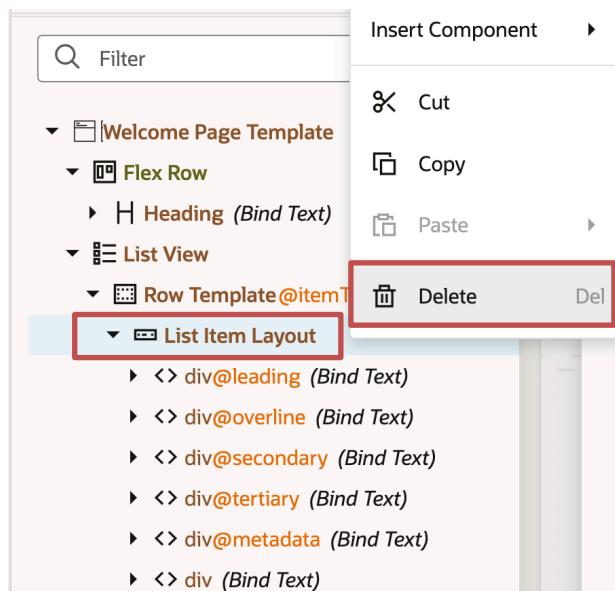
The screenshot shows a mobile application interface. At the top, there is a decorative header with a teal background featuring a stylized redwood tree and a small illustration of a person with a backpack and a tent. The title "Welcome to My Redwood Reference App" is displayed in white text, along with the subtitle "Create and submit orders and review information about inventory". Below this, a section titled "Draft orders needing your attention" is shown. A "List View" button is highlighted in blue. The list contains three items, each representing a draft order:

Order ID	Customer Name	Order Number	Status	Action
5151	Kathryn	Rogers 313 F000000313	DRAFT	
1664	Kathryn	Rogers 314 F000000314	DRAFT	
4481	Kathryn	Rogers 315 F000000315	DRAFT	

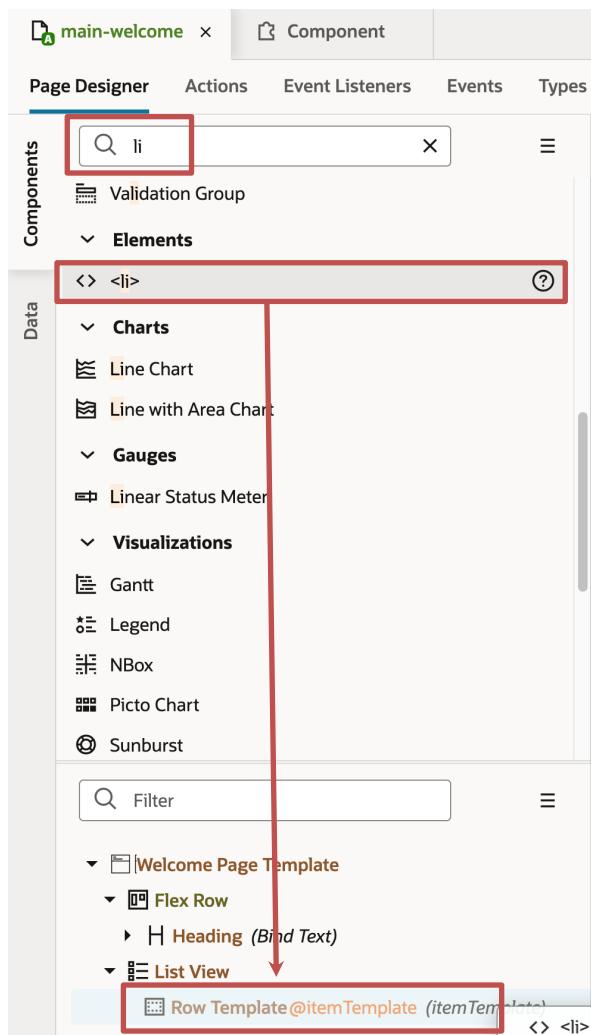
**Note:** Your list of orders may be different depending on how the data was retrieved from the backend. This is not an issue.

Notice the image does not display correctly You will fix that later.

36. Modify the list to present the orders as cards. Select the **List Item Layout** in the **Structure** pane and press the **Delete** key or right-click and select **Delete**.



37. Drag an **li** element from the **Components** palette onto the **Row Template**.



38. Select the new **li** element and, in its Property pane, delete the **Item** text.

The screenshot shows the Oracle APEX Structure pane. The tree view on the left shows the following hierarchy:

- >Welcome Page Template
  - Flex Row
  - Heading (Bind Text)
  - List View
    - Row Template@itemTemplate (itemTemplate)

The 'li' element is highlighted with a red box in the tree view. In the Properties pane on the right, the 'Text' field is also highlighted with a red box, indicating it is the selected item for modification.

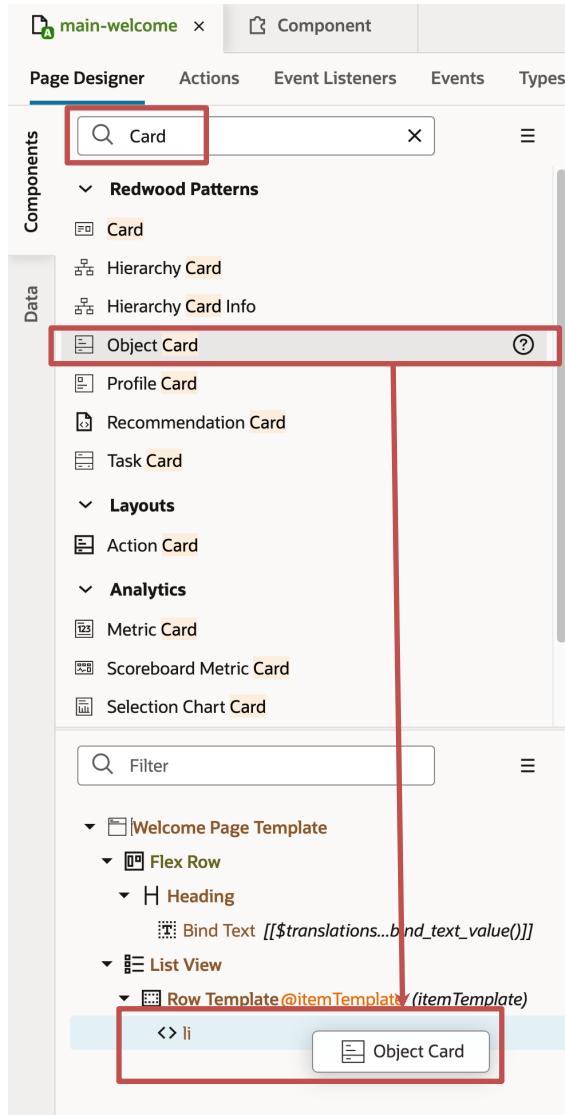
39. Select **List View** in the **Structure** pane and, on the **General** tab, select **Card Layout** under **Styling**.

The screenshot shows the Oracle APEX Structure pane. The tree view on the left shows the following hierarchy:

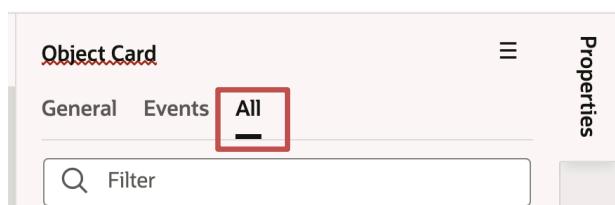
- >Welcome Page Template
  - Flex Row
  - Heading
  - Bind Text [\$translations...bind\_text\_value()]
  - List View
    - Row Template@itemTemplate (itemTemplate)

The 'List View' node is highlighted with a red box in the tree view. In the Properties pane on the right, the 'General' tab is selected. Under the 'Styling' section, the 'Card Layout' checkbox is checked, also highlighted with a red box.

40. Drag an **Object Card** component onto the **li** element in the **Structure** pane.



41. Select the new **Object Card** and then click its **All** tab in its **Property** pane.



42. Set the following properties:

- **Emphasized Footer:** true
  - **Image:** Click the **Show sub-properties** > to enter properties and enter the following code for the **Image Source**:
- ```
[ [ $application.path + 'resources/' +
  current.data.orderLinesCollection.items[0].imageUrl ] ]
```

image >

Object Card

General Events All

< image

Image Source (?) fx (x)

```
[[ $application.path + 'resources/' +
$current.data.orderLinesCollection.items[0].imageUrl ]]
```

Alternative Text

The screenshot shows the Oracle ADF Faces Object Card editor. On the left, there's a panel labeled 'image' with a red-bordered 'gt' button. Below it is a large empty rectangular input field. To the right is a vertical 'Properties' sidebar. The main area is titled 'Object Card' and has tabs for 'General', 'Events', and 'All'. Under 'General', there's a section for 'Image Source' with a question mark icon and a 'fx (x)' button. A code block contains the expression: `[[ \$application.path + 'resources/' + \$current.data.orderLinesCollection.items[0].imageUrl ]]`. This code is highlighted with a red border. Below this is a section for 'Alternative Text' with an empty input field.

You will see the images appear on the cards.

Overline Text

# Welcome to My Redwood Reference App

Create and submit orders and review information about inventory

The screenshot shows the welcome screen of the Redwood Reference App. It features a teal header with the title 'Welcome to My Redwood Reference App' and a subtitle 'Create and submit orders and review information about inventory'. Below the header is a decorative illustration of a hot air balloon with a basket containing a small tent and a person sitting on a rock.

## Draft orders needing your attention

The screenshot shows a section titled 'Draft orders needing your attention'. It displays three cards, each representing a draft order. The first card shows a purple bag with a floral pattern. The second card shows a black fitness tracker. The third card shows a blue smartwatch. Each card has a small image icon in the top-left corner.

43. Click the < image link to return to the properties.

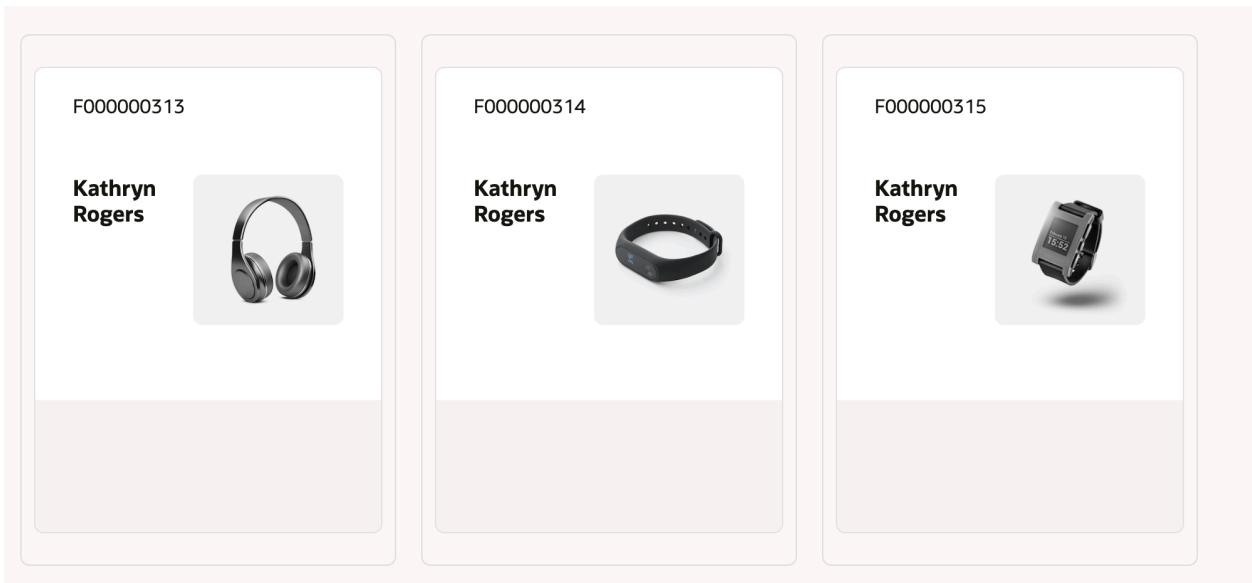
The screenshot shows the 'Object Card' properties panel. At the top, there are tabs: 'General', 'Events', and 'All'. The 'All' tab is selected. Below the tabs, there is a red-bordered button labeled '< image'. Underneath it, the 'Image Source' field contains the expression: `[[ $application.path + 'resources/' +$current.data.orderLinesCollection.items[0]?.imageUrl ]]`. To the right of the properties panel, there is a vertical 'Properties' sidebar.

- For **Header Label**, enter: `[[ $current.data.orderNumber ]]`

The screenshot shows two object cards. The first card has the header label 'F000000180' and displays an image of a purple smartwatch. The second card has the header label 'F000000181' and displays an image of a black fitness tracker. Both cards have a dashed blue border around their content area.

- For **Header Title**, enter: `[[ $current.data.customerFirstName + ' ' + $current.data.customerLastName ]]`

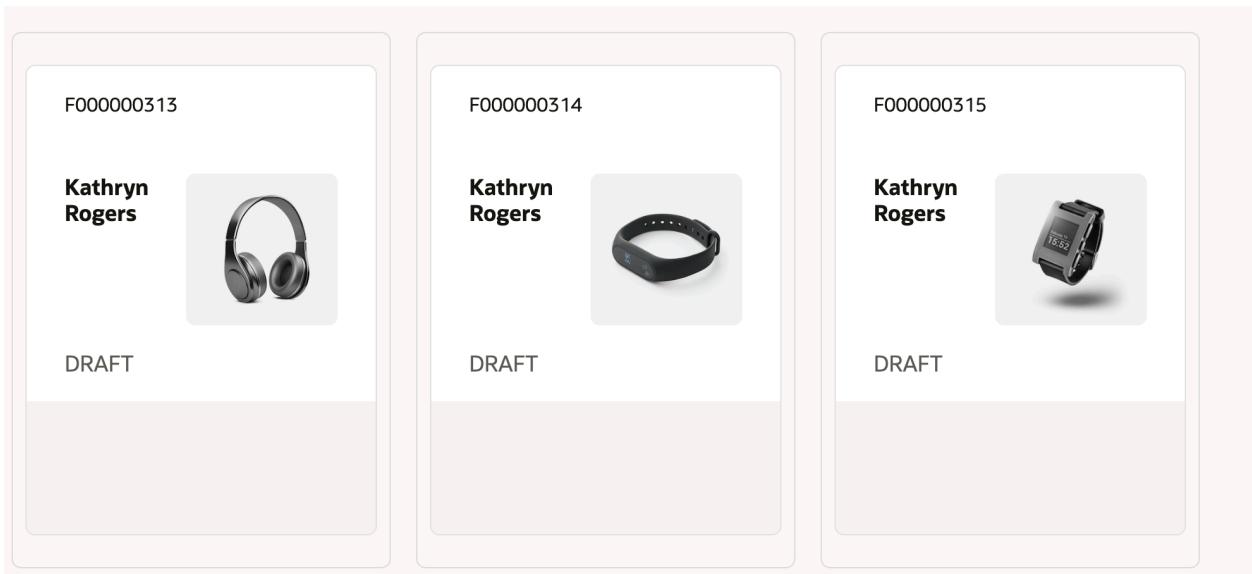
The screenshot shows the 'Header Title' input field. The value entered is `[[ $current.data.customerFirstName + ' ' + $current.data.customerLastName ]]`. This input field is highlighted with a red border.



- For **Secondary Text**, enter: `[[ $current.data.orderStatus ]]`

Secondary Text \*

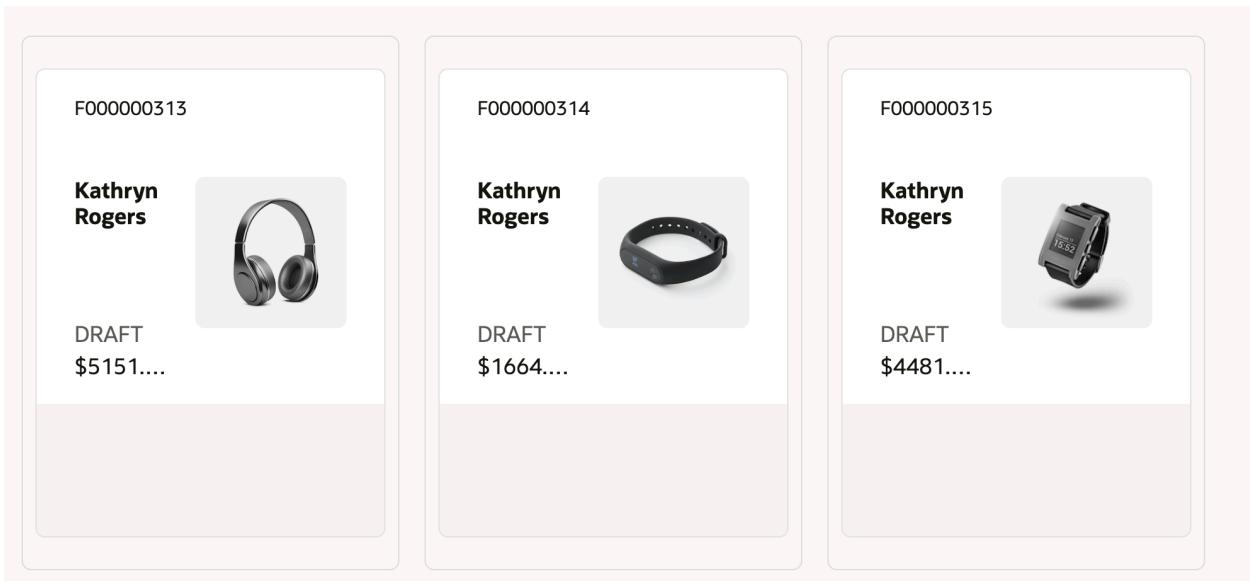
*fx (x)*



- For **Tertiary Text**, enter: `[[ '$' + $current.data.totalAmount + ".00" ]]`

**Note:** Numbers must be converted to strings for some properties.

Tertiary Text



When you are done, the display should look like this:

**Note:** Your orders may be different, but the formatting should be the same.

**Hint:** Changing the width of the display canvas will cause the responsive components to redraw the page appropriately.

Events Types (1) Variables (6) JavaScript JSON Settings

... Q ( Fit to Canvas auto X auto 100% Live Design Code Obj Ge E S A C I > > > >

Overline Text

# Welcome to My Redwood Reference App

Create and submit orders and review information about inventory

Draft orders needing your attention

| Object Card         | F000000313          | F000000314          | F000000315 |
|---------------------|---------------------|---------------------|------------|
| Kathryn Rogers      |                     |                     |            |
| DRAFT<br>\$5151.... | DRAFT<br>\$1664.... | DRAFT<br>\$4481.... |            |
|                     |                     |                     |            |
| F000000330          | F000000331          | F000000333          |            |

Page Welcome Page Template List View Row Template li Object Card 2 errors on this page

**LIST view**

| F000000313         | F000000314         | F000000315         |
|--------------------|--------------------|--------------------|
| Kathryn Rogers     | Kathryn Rogers     | Kathryn Rogers     |
|                    |                    |                    |
| DRAFT<br>\$5151.00 | DRAFT<br>\$1664.00 | DRAFT<br>\$4481.00 |
|                    |                    |                    |

Q | (→) | Fit to Canvas ▾ | auto | X | auto | 100% ▾ | Live | Design | Code

**Overline Text**

# Welcome to My Redwood Reference App

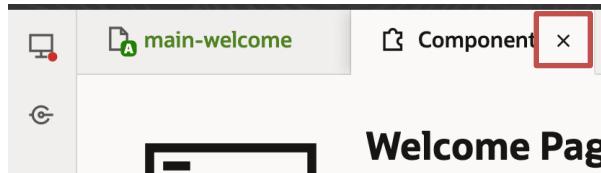
Create and submit orders and review information about inventory



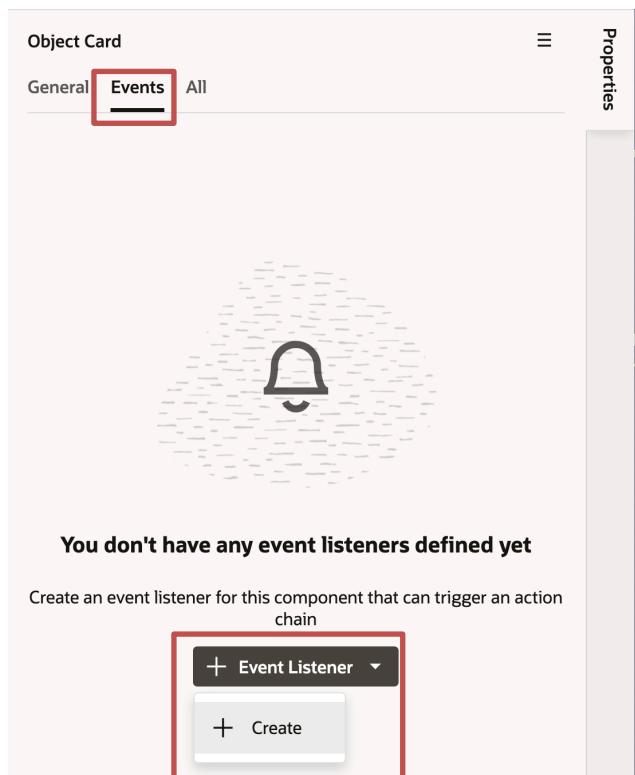
## Draft orders needing your attention

| Object Card |                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| F000000313  | <b>Kathryn Rogers</b><br><br>DRAFT<br>\$5151.00   |
| F000000314  | <b>Kathryn Rogers</b><br><br>DRAFT<br>\$1664.00 |
| F000000315  |                                                                                                                                      |
| F000000330  |                                                                                                                                      |

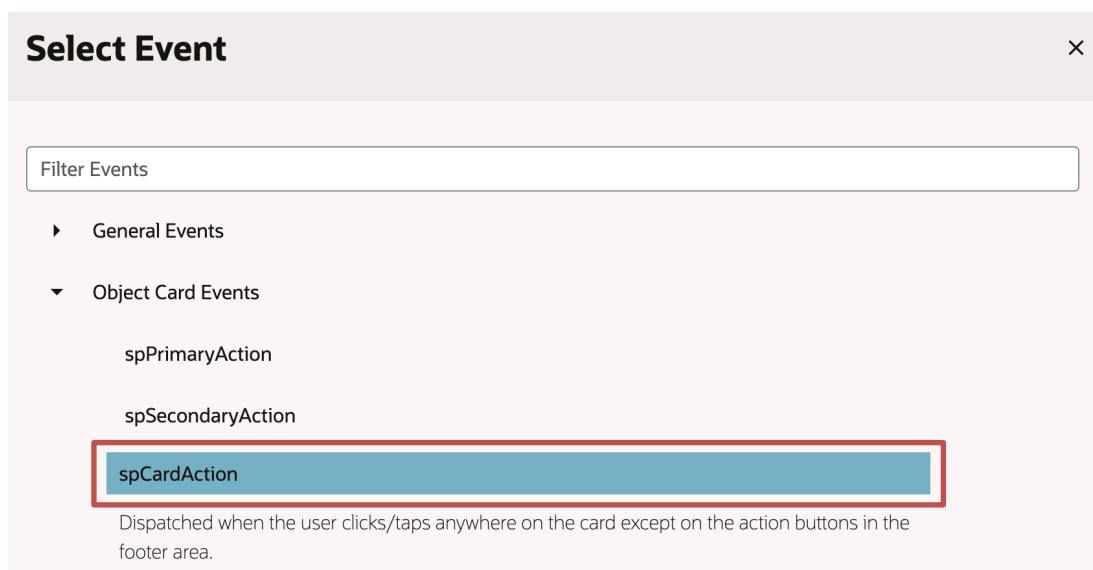
44. Close the Component tab.



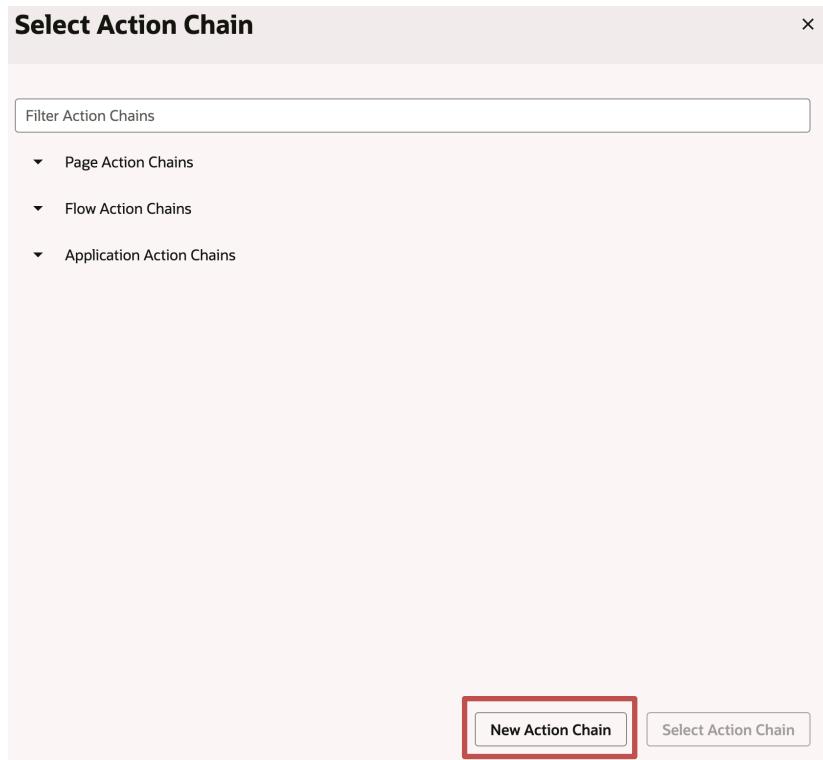
45. Select the **Object Card** in the **Structure** pane and click its **Events** tab in the **Property** pane. Click the **+ Event Listener** pull-down menu and select **+ Create**.



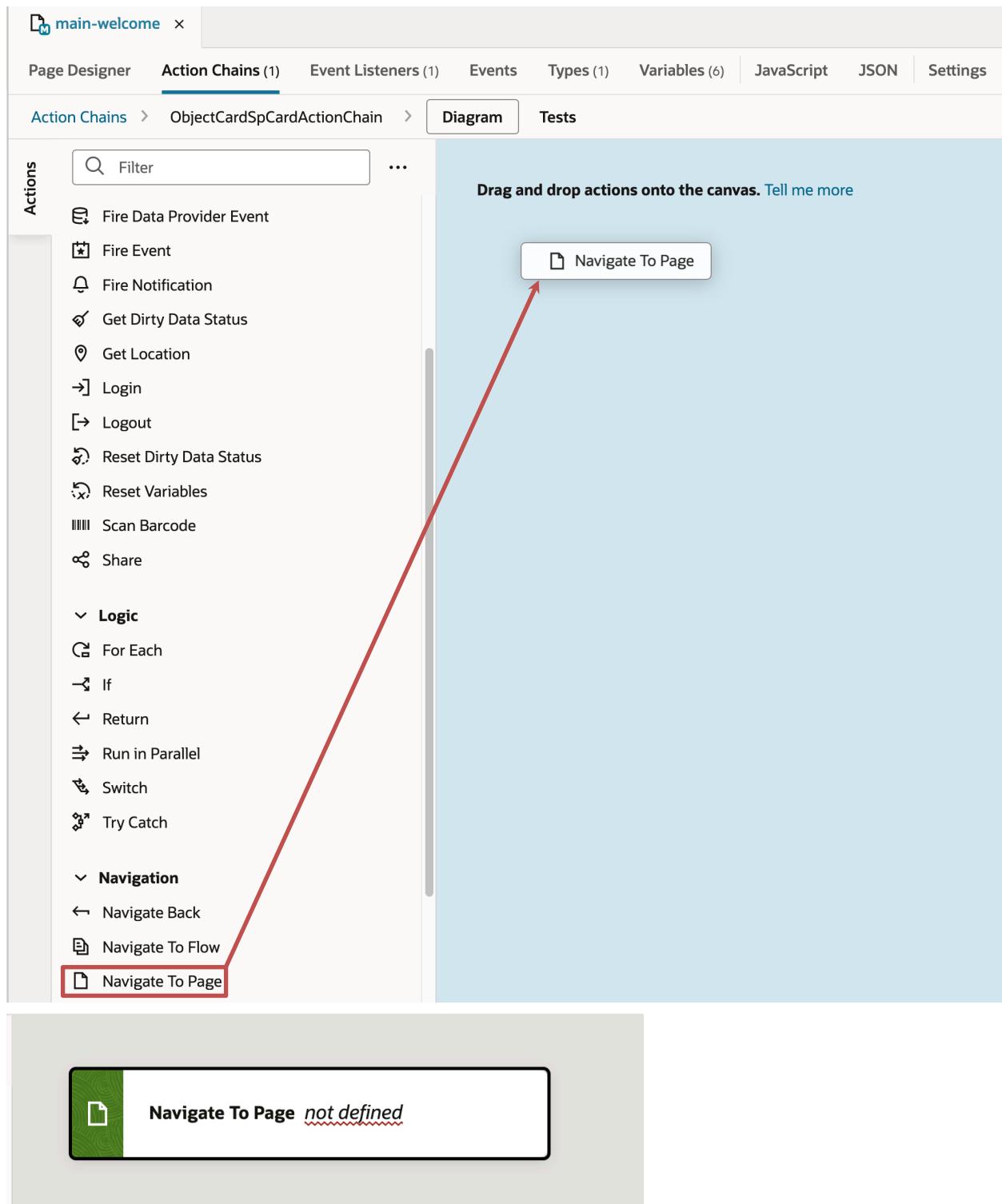
46. Expand **Object Card Events** and click **spCardAction**. Click **Select**.



47. Select **New Action Chain**. The new action chain appears.



48. Drag a **Navigate To Page** action to the canvas.

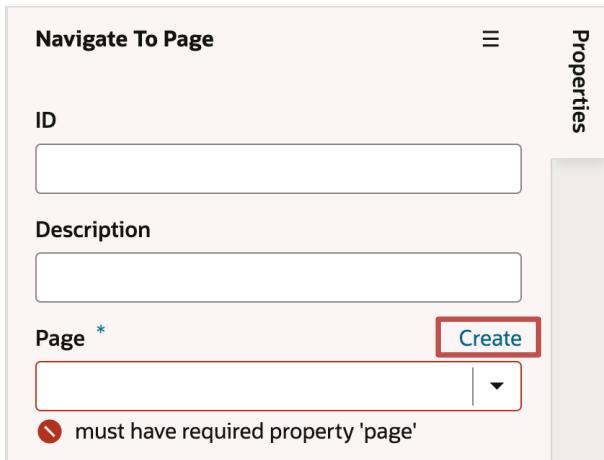


49. With the new action selected, click the **Create** link in the **Navigate To Page Property** pane.

**Navigate To Page**

|                                    |                                       |
|------------------------------------|---------------------------------------|
| ID                                 |                                       |
| Description                        |                                       |
| Page *                             | <input type="button" value="Create"/> |
| must have required property 'page' |                                       |

**Properties**



50. Name the new page `main-edit-orders` and select **Simple Create and Edit Page Template** and click **Create**.

## Create Page

Page ID \*

`main-edit-orders`

### Choose Page Content

Filter



#### Create an Empty Page

The empty page can be customized from page designer.



#### Advanced Create and Edit Page Temp...

Manage complex business objects with many attributes and multiple levels of information.



#### Canvas Page Template

A template to be used for visual builders, in order to deliver an experience to create and edit visual flows like diagrams, visual medi...



#### Collection Detail Page Template

View item details within the context of the collection they're part of.



#### Dashboard Landing Page Template

Summarize business performance and status, including KPIs and visualizations drawn from different sources.



#### Data Grid Page Template

Incorporate complex data as a data grid into your business transactions.



#### Gantt Page Template

Manage data for scheduling and tracking progress in a Gantt chart complemented with alternative views.



#### General Overview Page Template

Provide read-only information for a business object in a simple layout, such as a form or timeline.



#### Guided Process Page Template

Simplify a complex process by dividing it into sequential steps.



#### Horizontal Foldout Layout Page Tem...

Provide an overview of an object in a pinned horizontal panel above vertical panels of associated information.



#### Item Overview Page Template

Provide a read-only form or collection with key information about a business object highlighted in a panel.



#### Simple Create and Edit Page Template

Create and edit simple business objects on a single page in a form layout.

51. Click the **Go to Page** link.

The screenshot shows a 'Navigate To Page' dialog box. It has fields for 'ID' and 'Description'. Below these is a 'Page \*' field with a 'Create' button and a dropdown menu showing 'main-edit-orders'. At the bottom is a red-bordered 'Go to Page' button.

52. On the new **main-edit-orders** page, click the **Variables** tab to set up the **orderId** that will be passed to the page so it can be used to retrieve the selected record and edit it.

The screenshot shows the Oracle Page Designer interface for the 'main-edit-orders' page. The top navigation bar includes tabs for 'Page Designer' (which is active), 'Action Chains (7)', 'Event Listeners (8)', 'Events', 'Types', 'Variables (11)' (which is highlighted with a red box), and 'JavaScript'. The left sidebar has sections for 'Components' (with 'Redwood Patterns' expanded, showing 'Bottom Drawer Template', 'Calendar', and 'Card') and 'Data'. The main content area displays the text 'New Page' and 'Page Subtitle'.

53. Select **objectId** and rename it to `orderId` and set its **Input Parameter** property to **Required**.

**Tip:** While it is not necessary to rename the objectId variable, doing so helps with readability and consistency.

### ▼ Variables

- ▼ { } avatar
  - A initials
  - A src
  - contextualInfoLabelVisible
  - contextualInfoSticky
  - dirtyDataFlag
  - A displayMode
  - A formState
  - goToParentOption
  - isSaved
  - A objectId**
  - primaryAlwaysOn
  - A saveOption

**Variable**

General Events Design Time ...

**ID \*** orderId

Type \* String Create

Label

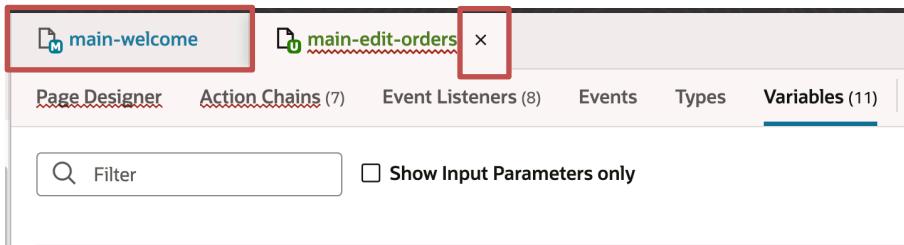
Description

**Input Parameter**

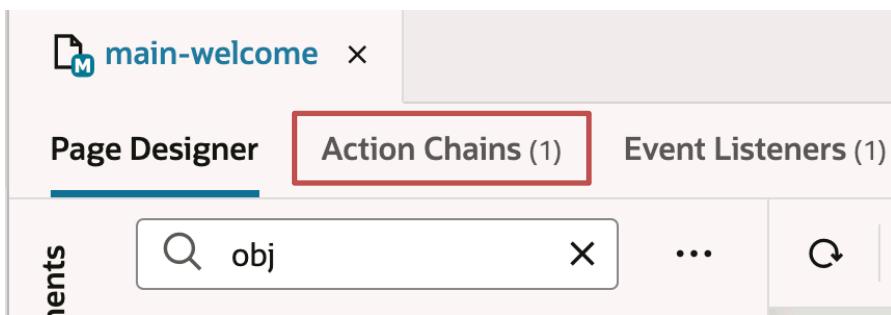
Disabled Enabled Required

Pass On URL

54. Close the **main-edit-orders** tab to return to the **main>Welcome** page.



55. Select the **Actions Chains** tab to return to the action chains.



56. Click the **ObjectCardSpCardActionChain** to open the action chain.

The screenshot shows a page titled "main-welcome". At the top, there are three tabs: "Page Designer", "Action Chains (1)", and "Event Listeners (1)". The "Action Chains (1)" tab is currently selected. Below the tabs is a search bar with a magnifying glass icon and the placeholder text "Filter". Underneath the search bar, the title "ObjectCardSpCardActionChain" is displayed.

57. Select the **Navigate To Page** action. For the **orderId** parameter, click the **Select Variable (x)** and select **\*key**.

The screenshot shows the "Action Chains" editor. In the "Parameters" section, there is a parameter named "orderId" with a value input field. To the right of the input field is a "Select Variable" button, which has a red box drawn around it. Below this, a modal dialog is open, also titled "Go to Page". It shows a "Parameters" section with the same "orderId" parameter. In the "Variables" section, there is a list of variables. One variable, "key", is highlighted with a red box.

The screenshot shows the Oracle ADF Page Designer interface. A red box highlights the 'Page' dropdown and the 'Parameters' section. The 'Page' dropdown is set to 'main-edit-orders'. The 'Parameters' section contains a parameter named 'orderId' with the value '[[ key ]]'. Below the designer, a code editor window displays the generated Java code:

```

toMainEditOrders = Navigate To Page main-edit-orders
Parameters
A orderId: key

```

58. Click the **Page Designer** tab and click the **Live** button. Test the navigation works by selecting one of the orders. The app navigates to the new main-edit-orders page. You will complete the development of the edit page in a later practice.
59. Close all open tabs.

This completes this practice.

