Practice 2: Create Business Objects and Welcome Page

Overview

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.

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Practice 2-1: Create Business Objects

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.

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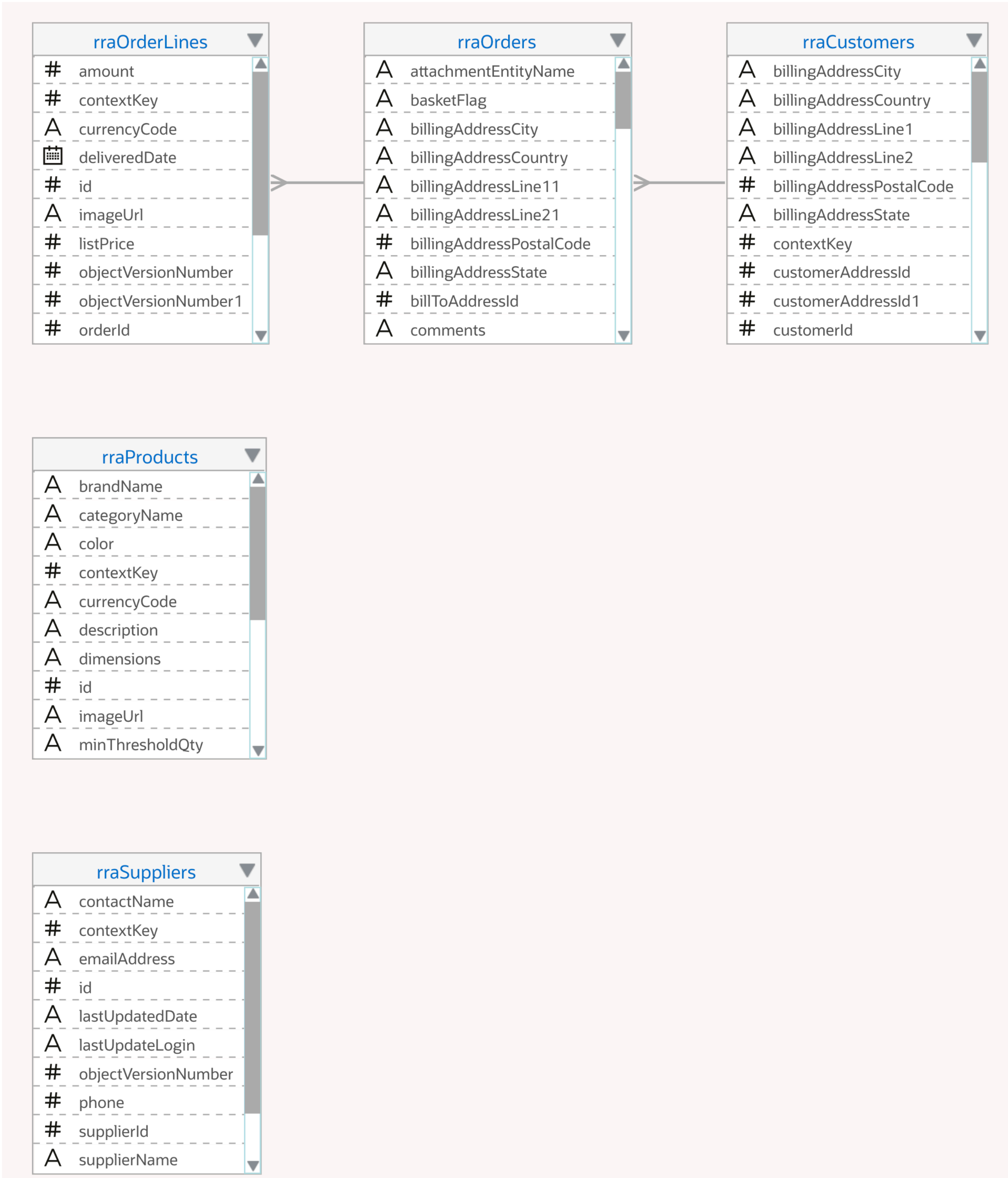

Assumptions

You have successfully completed Practice 1-2.

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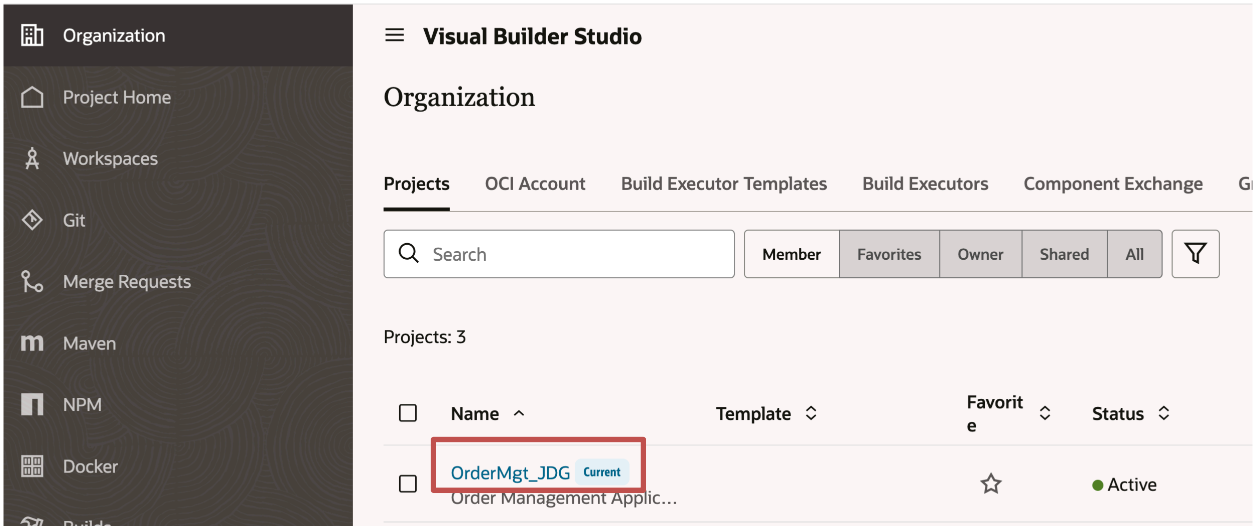
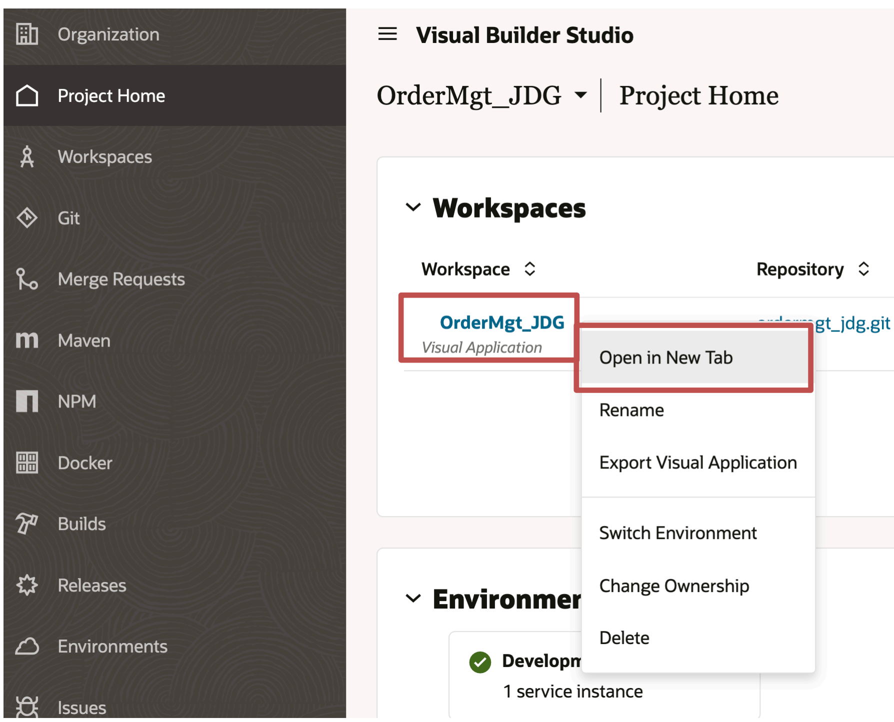
Tasks

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.



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



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

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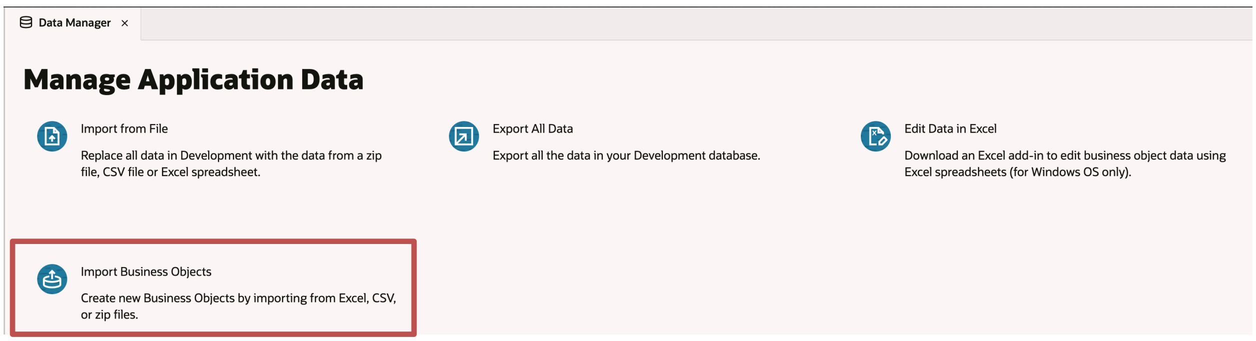
4. Select the **Business Objects** icon in the Navigator. The Business Object tab opens. Click the ellipsis (…) and select Data Manager.

5. Click **Import Business Objects**.



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.

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.

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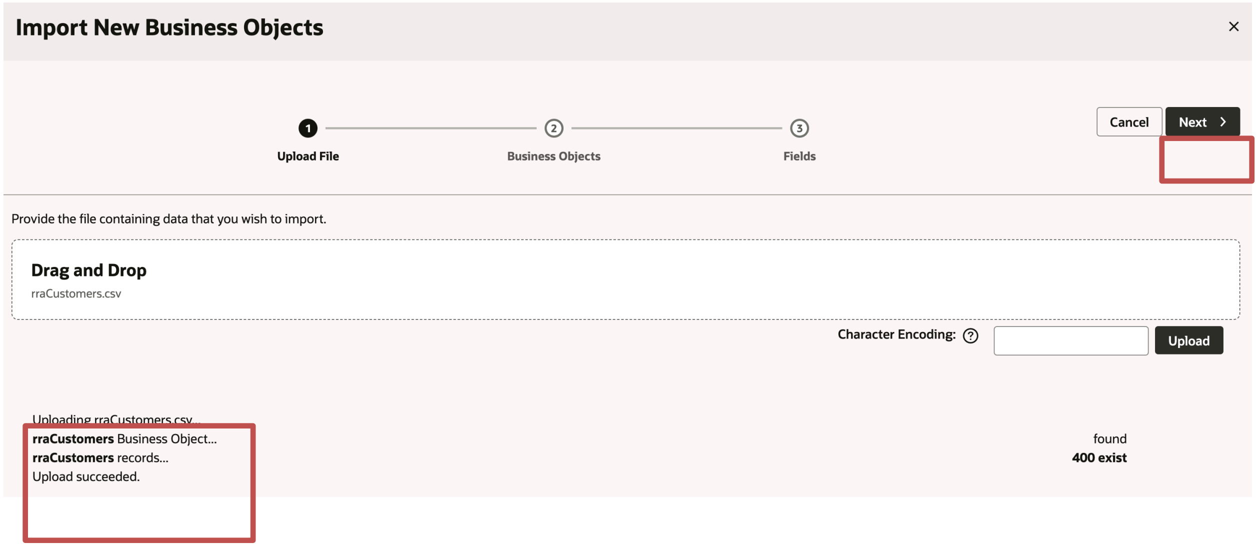
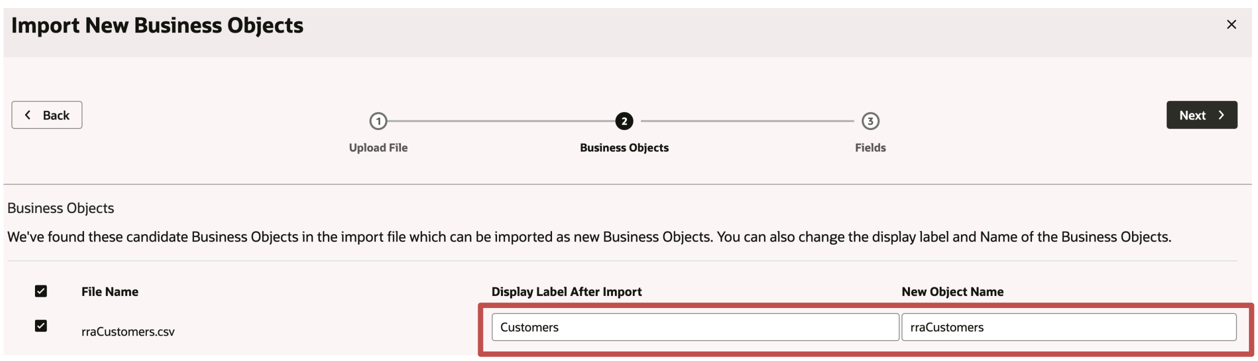
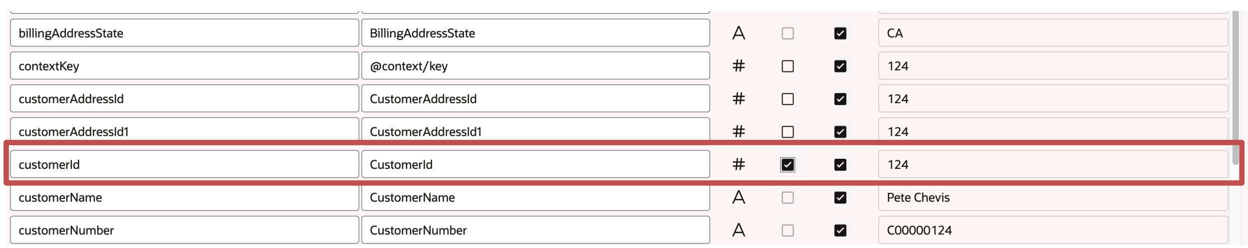
7. Click **Next** after the file has been uploaded.



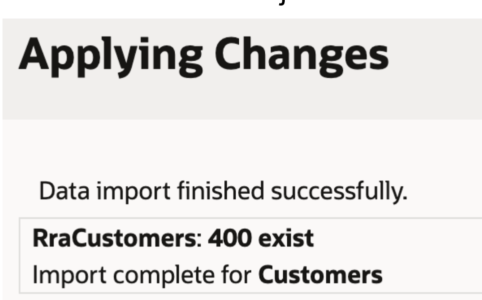
8. Change the **Display Label After Import** to `Customers` and the **New Object Name** to `rraCustomers` and click **Next**.



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



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



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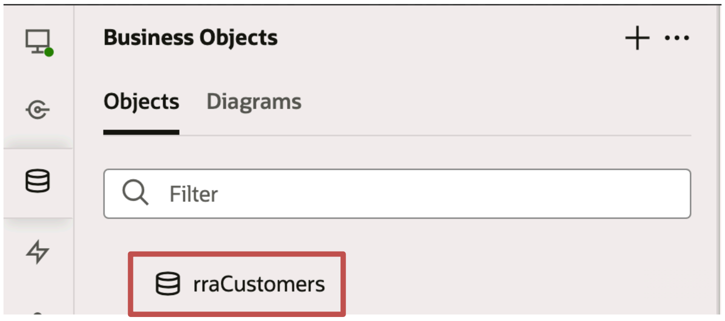
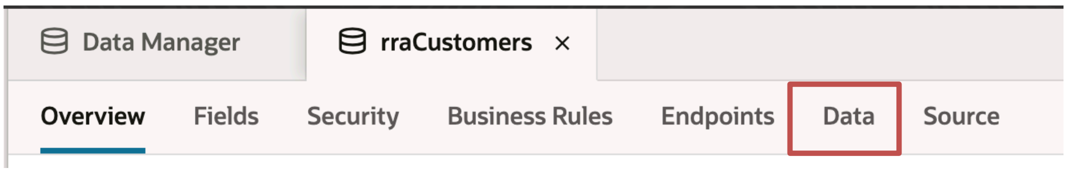
11. Confirm the data loaded successfully. Click the new rraCustomers icon in the Business Objects pane.

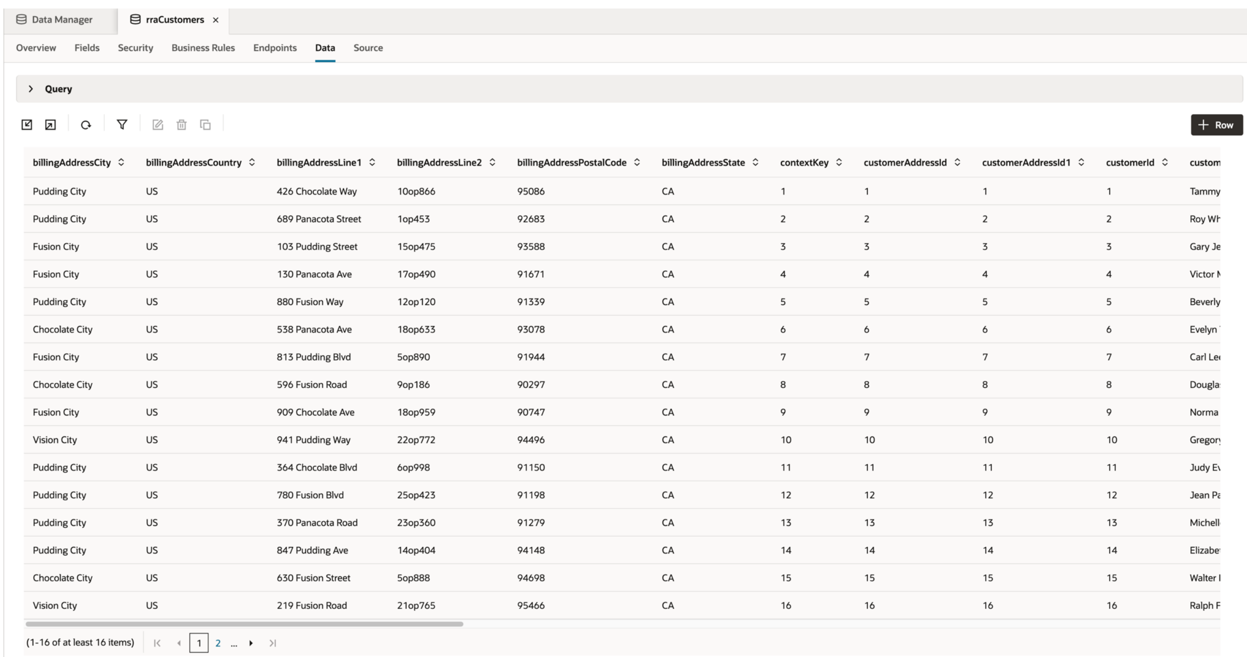


12. Click the **Data** tab.



The data displays.

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



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 Wh
Fusion City	US	103 Pudding Street	15op475	93588	CA	3	3	3	3	Gary Je
Fusion City	US	130 Panacota Ave	17op490	91671	CA	4	4	4	4	Victor
Pudding City	US	880 Fusion Way	12op120	91339	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 Le
Chocolate City	US	596 Fusion Road	9op186	90297	CA	8	8	8	8	Dougla
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	Michell
Pudding City	US	847 Pudding Ave	14op404	94148	CA	14	14	14	14	Elizabe
Chocolate City	US	630 Fusion Street	5op888	94698	CA	15	15	15	15	Walter
Vision City	US	219 Fusion Road	21op765	95466	CA	16	16	16	16	Ralph

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

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

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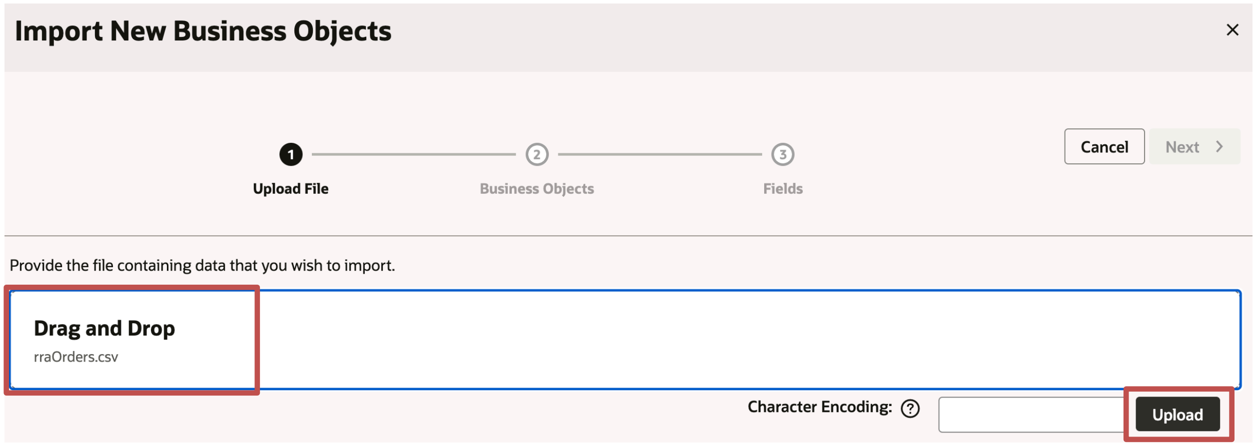
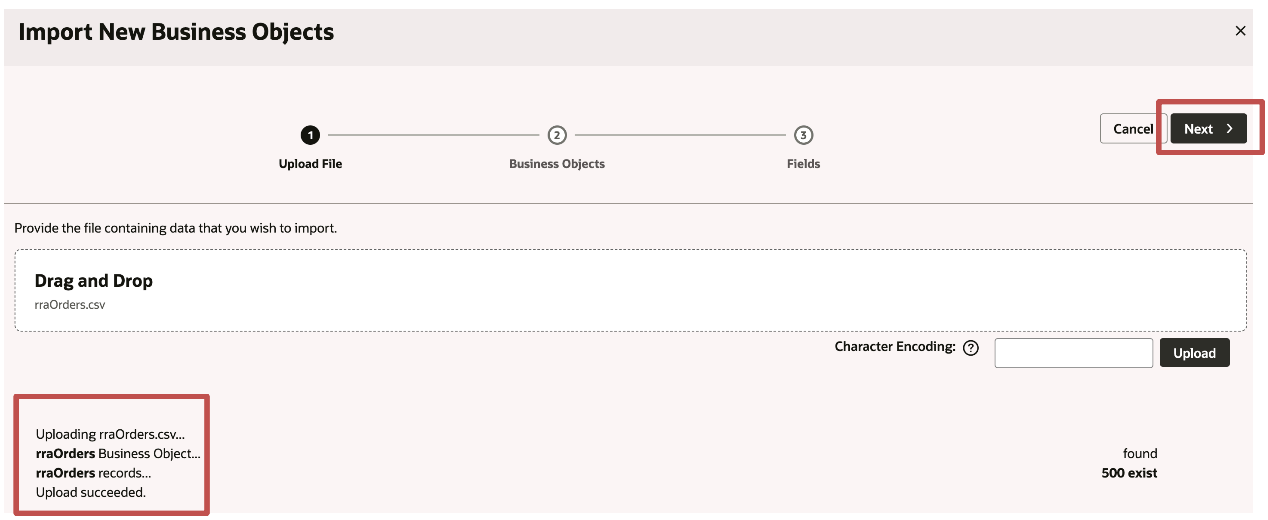
15. Upload the **rraOrders.csv** file when prompted. Click **Upload** to start the upload.

    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.



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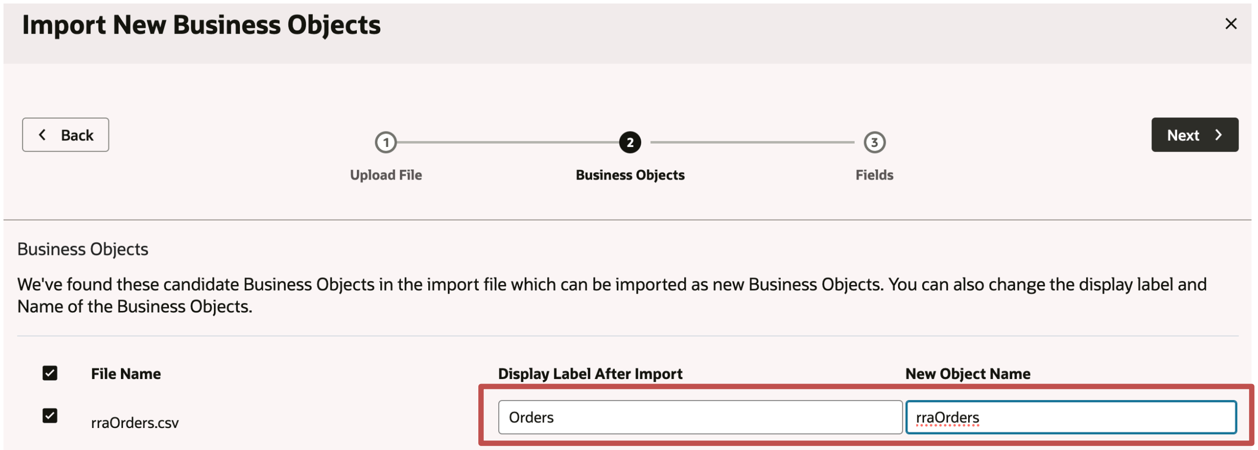
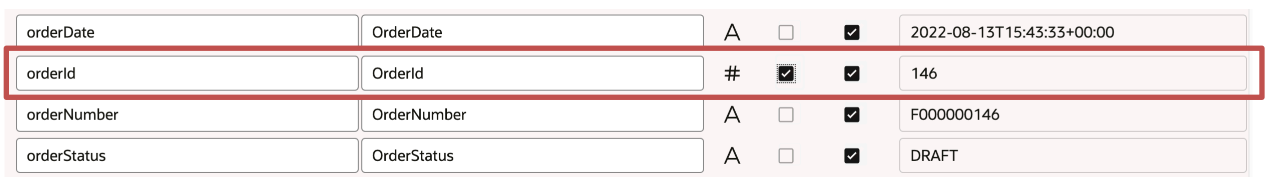
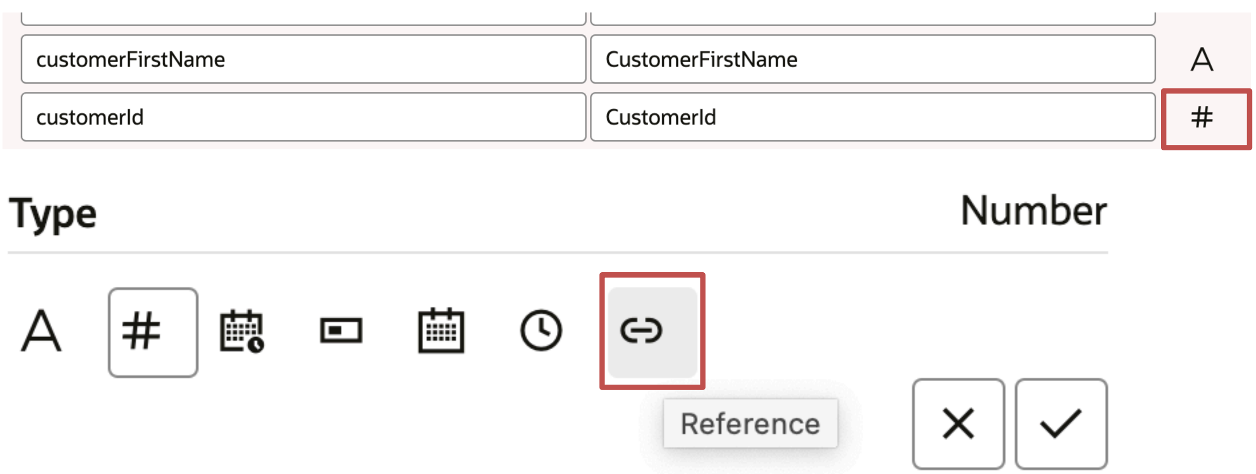
17. Change the **Display Label After Import** to `Orders` and the **New Object Name** to `rraOrders` and click **Next**.



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



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



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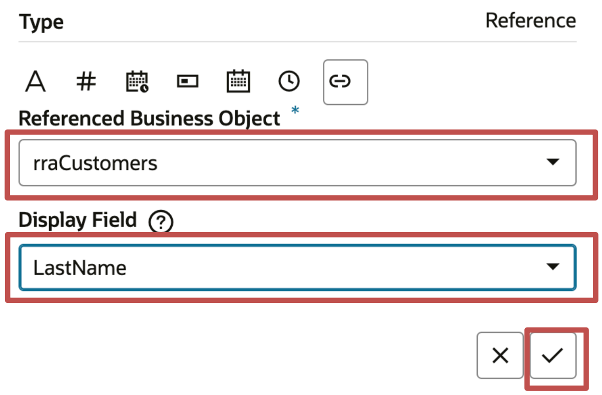
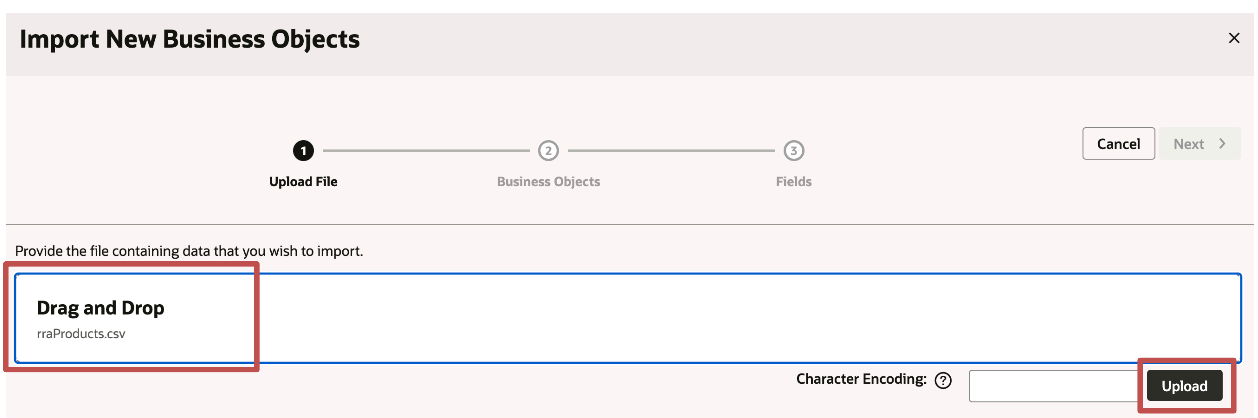
20. For the **Referenced Business Object** select **rraCustomers** and for **Display Field** select **LastName** and click the check mark. Click **Finish** to load the data.



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.



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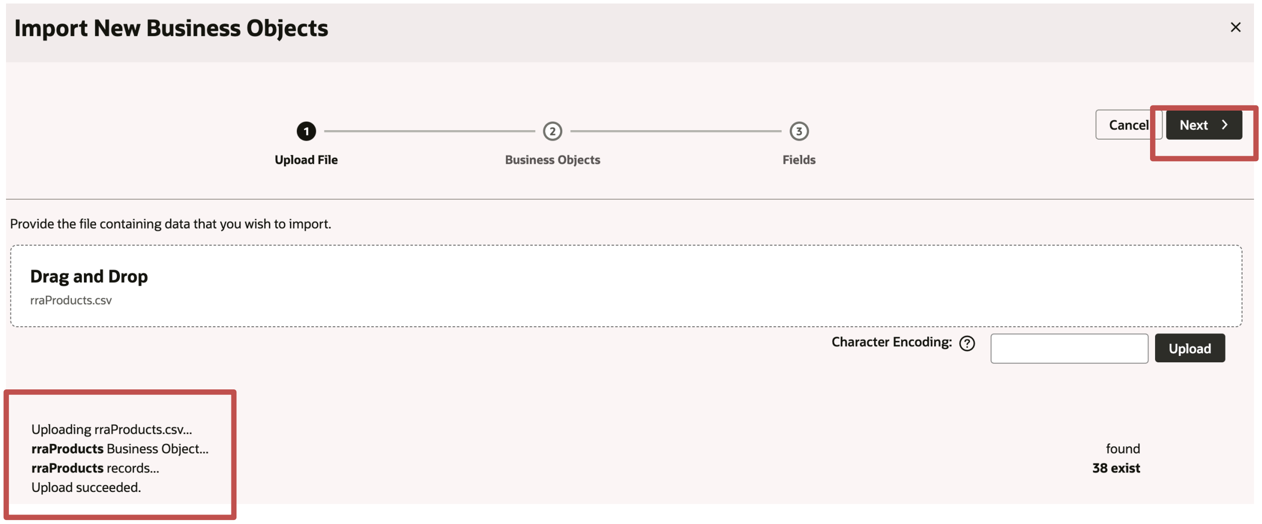
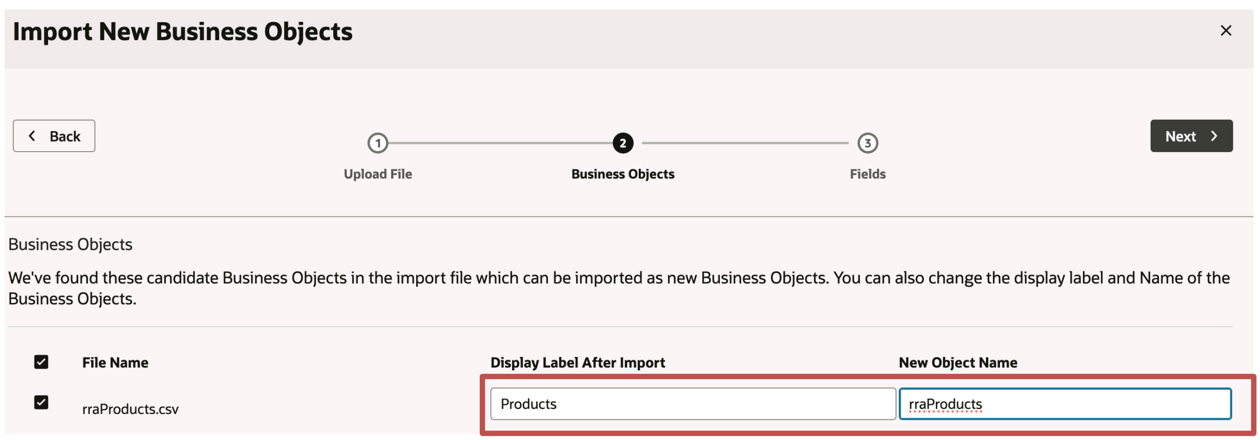
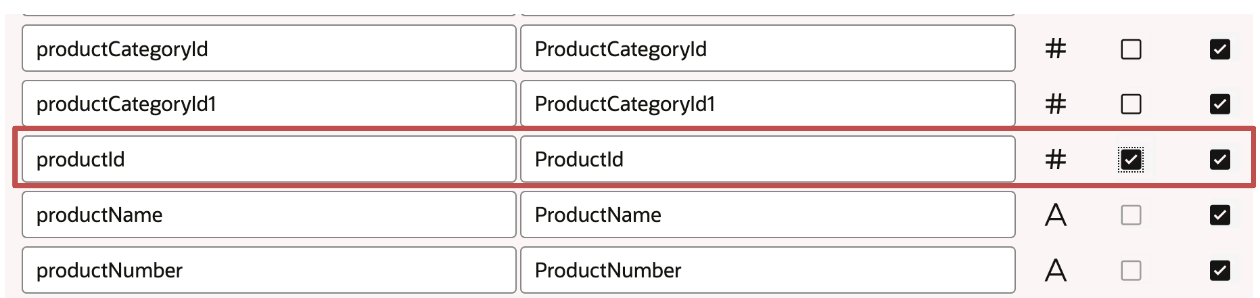
24. Click **Next** after the file has been uploaded.



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



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



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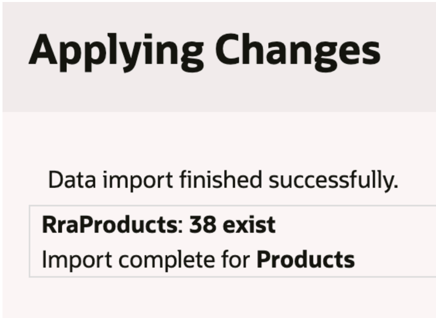
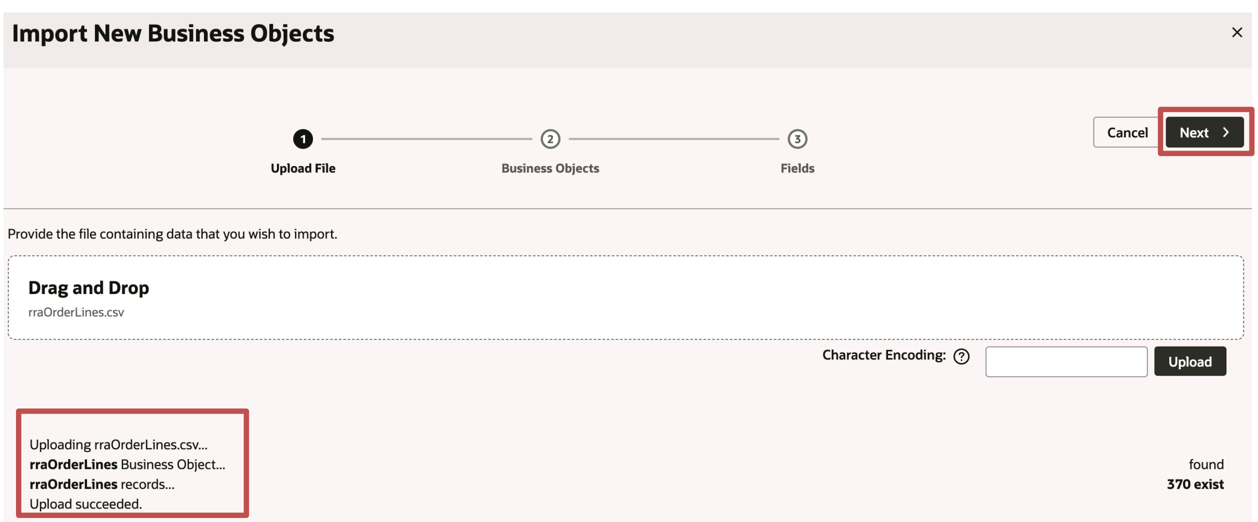
27. The new business object is created and the CSV data is loaded. Click **Close**.



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.



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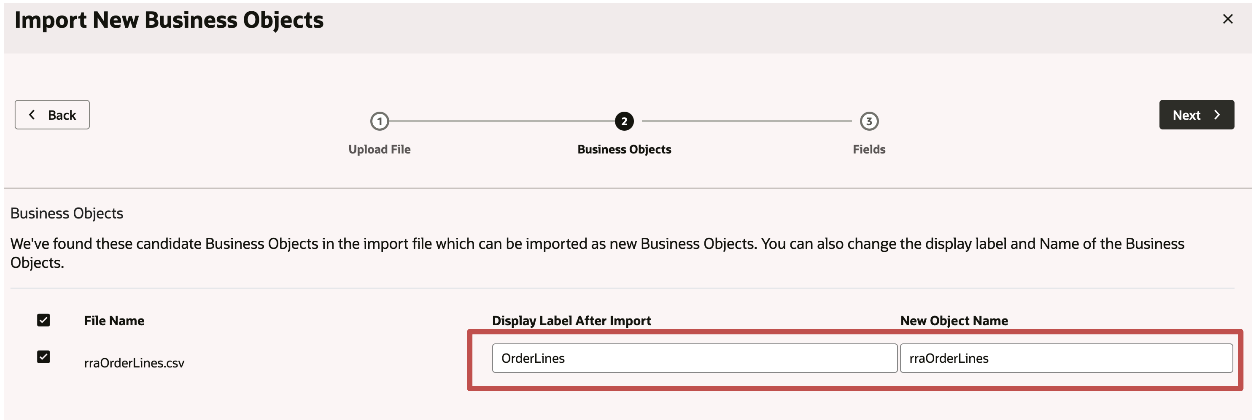
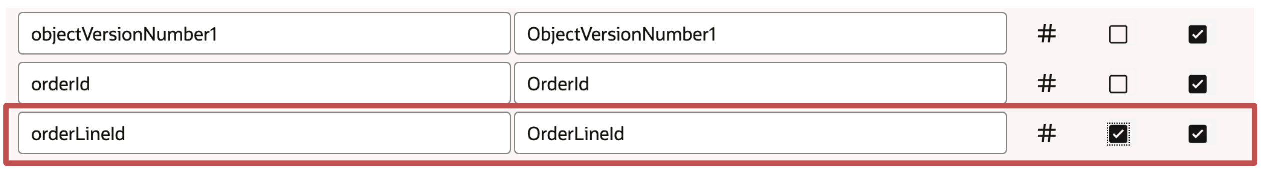
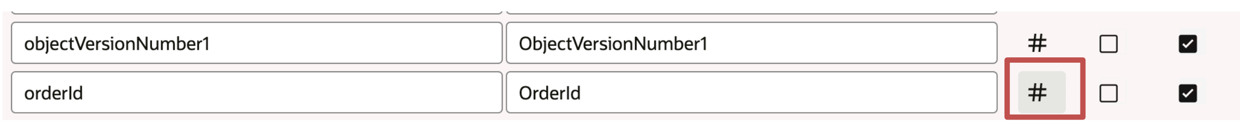
32. Change the **Display Label After Import** to `OrderLines` and the **New Object Name** to `rraOrderLines` and click **Next**.

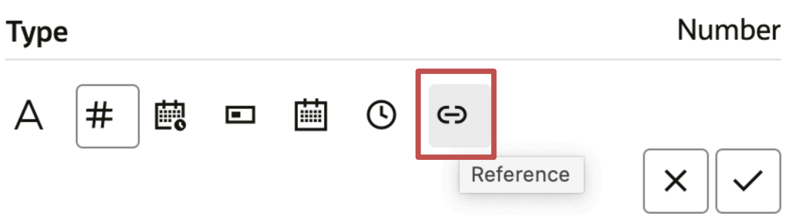


33. Select the **orderLineId** checkbox under **Key**.



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.





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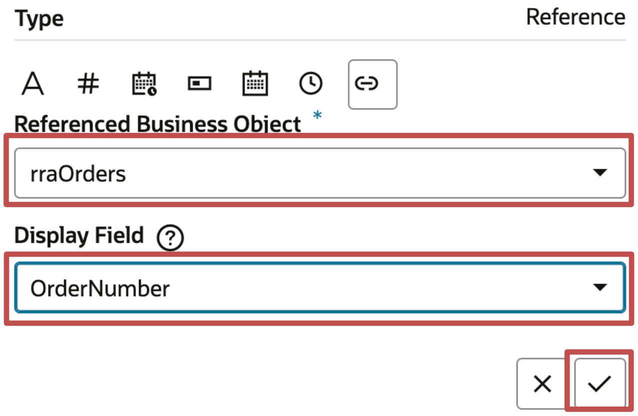
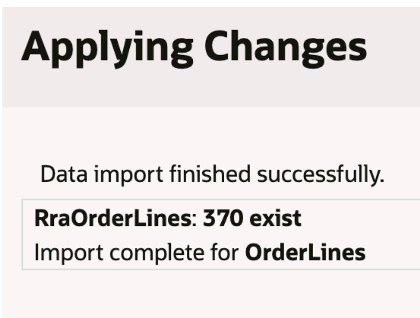


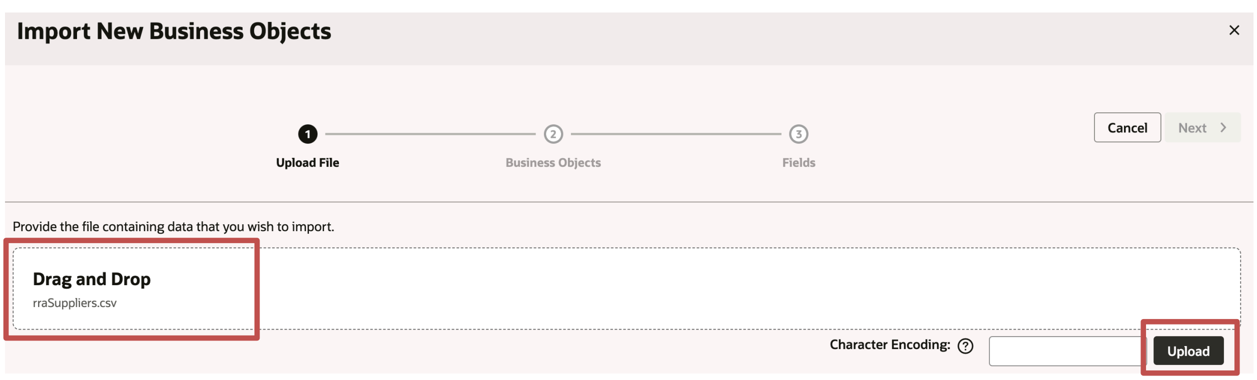
35. Click **Finish** to load the data.



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.



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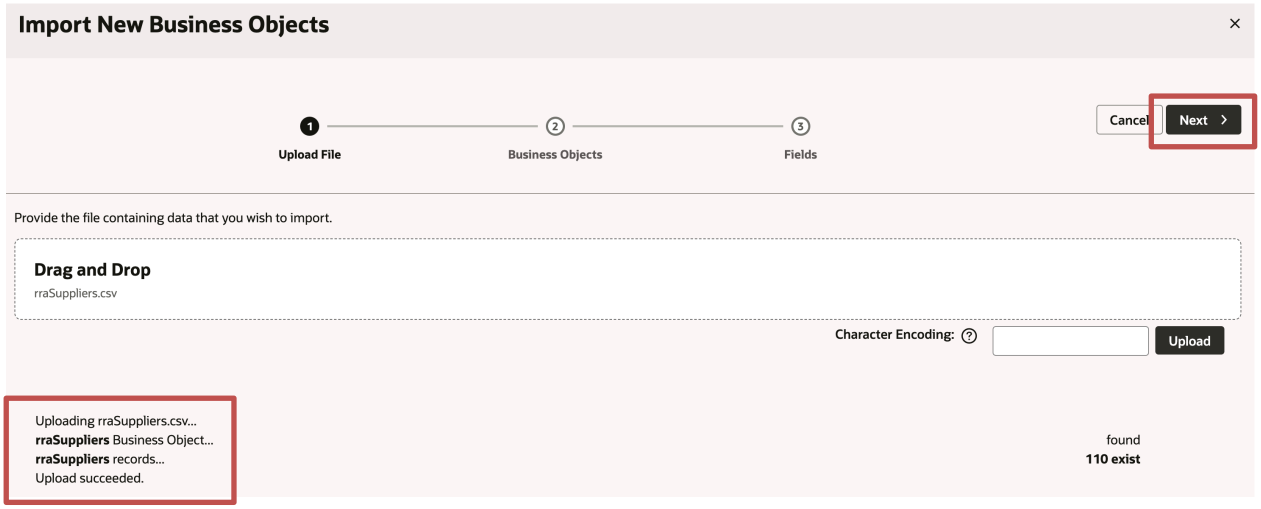
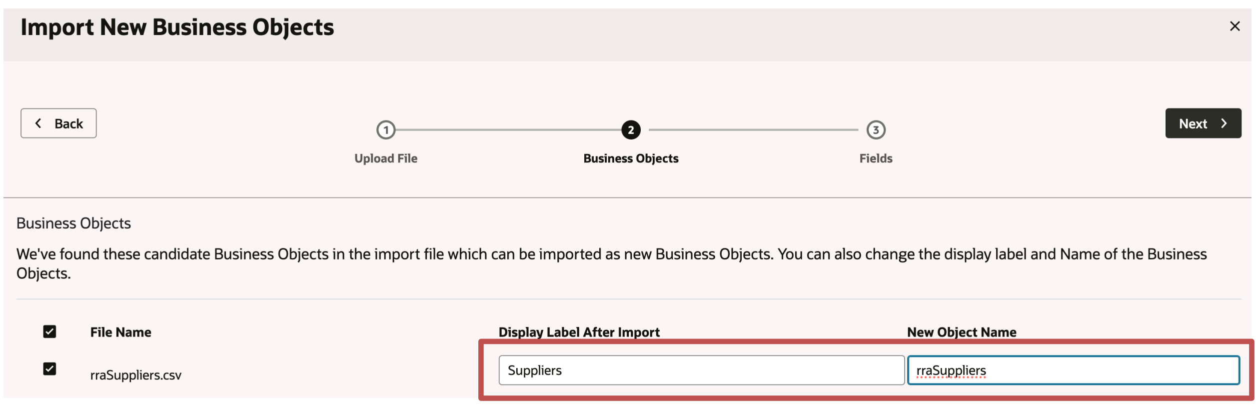
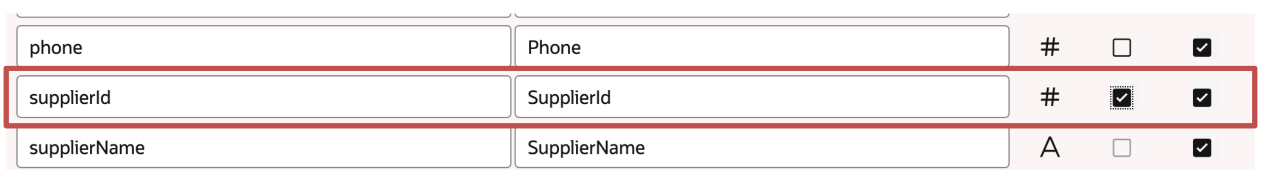
39. Click **Next** after the file has been uploaded.



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**.



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

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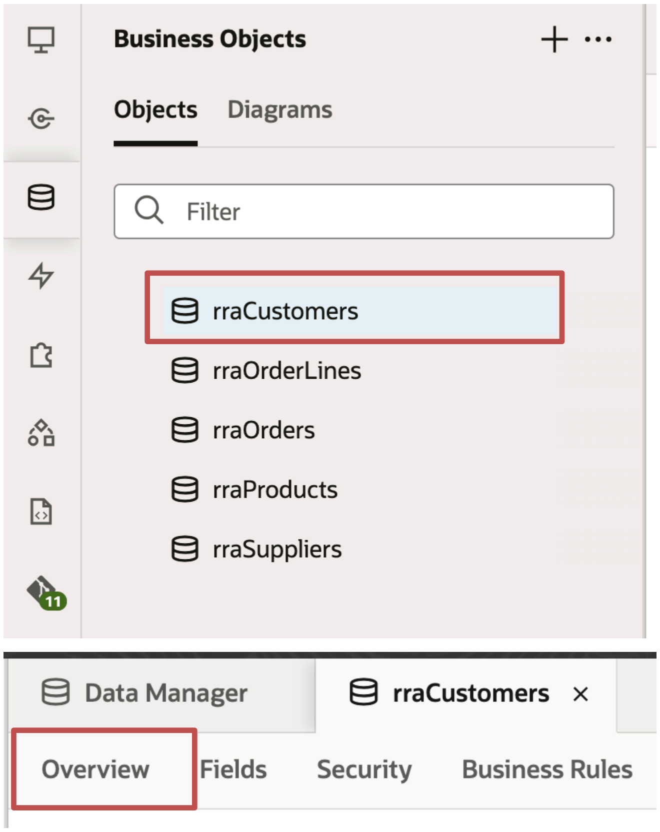
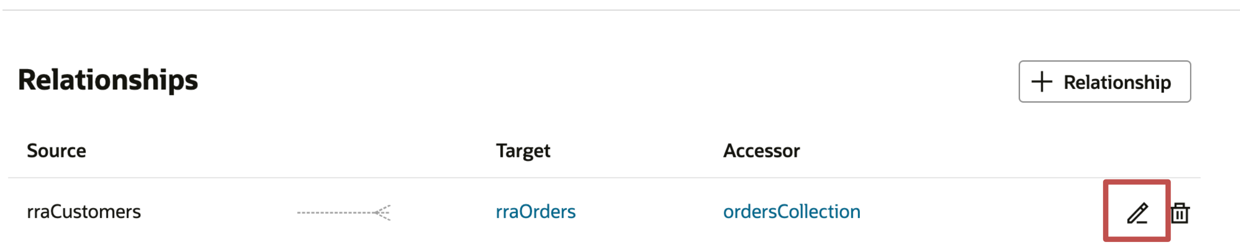
Complete loading the data model by enabling the accessors for Customer-Orders and Orders-OrderLines.

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



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



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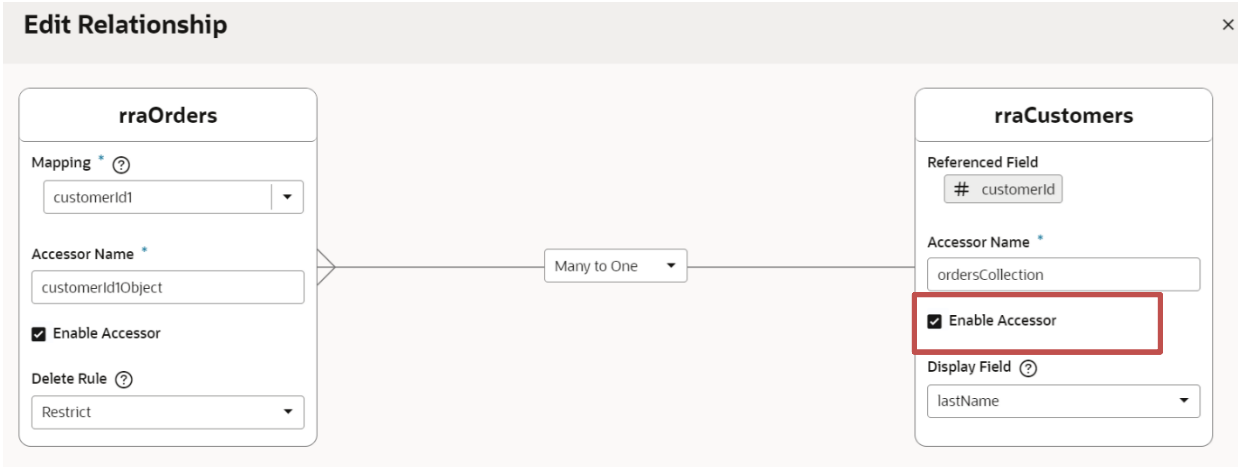
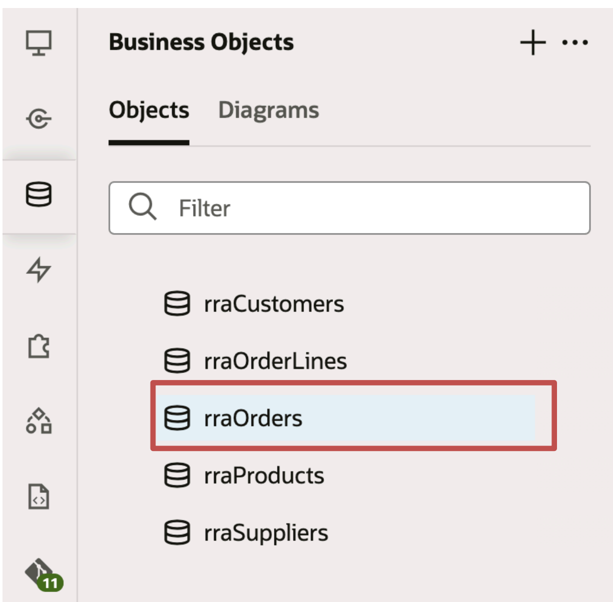
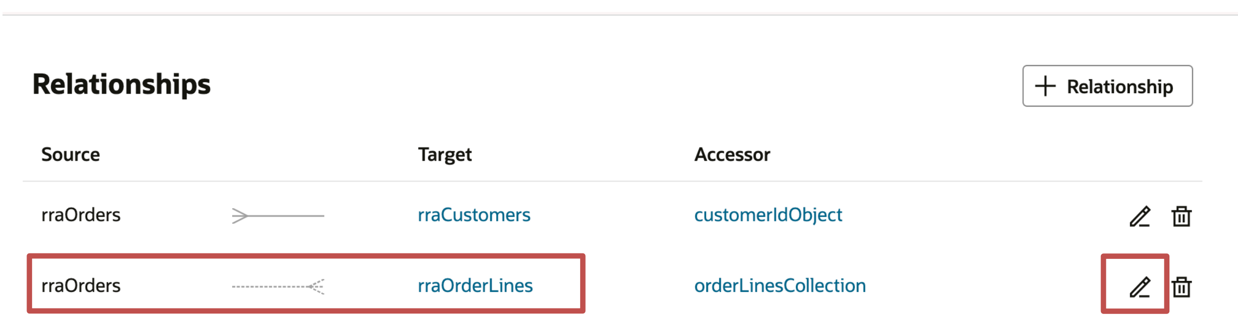
45. Click the checkbox to **Enable Accessor** for rraCustomers. This will provide access to a list of orders for a given customer. You will use this later when displaying all the orders for a selected customer. Click **Save**.



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**.



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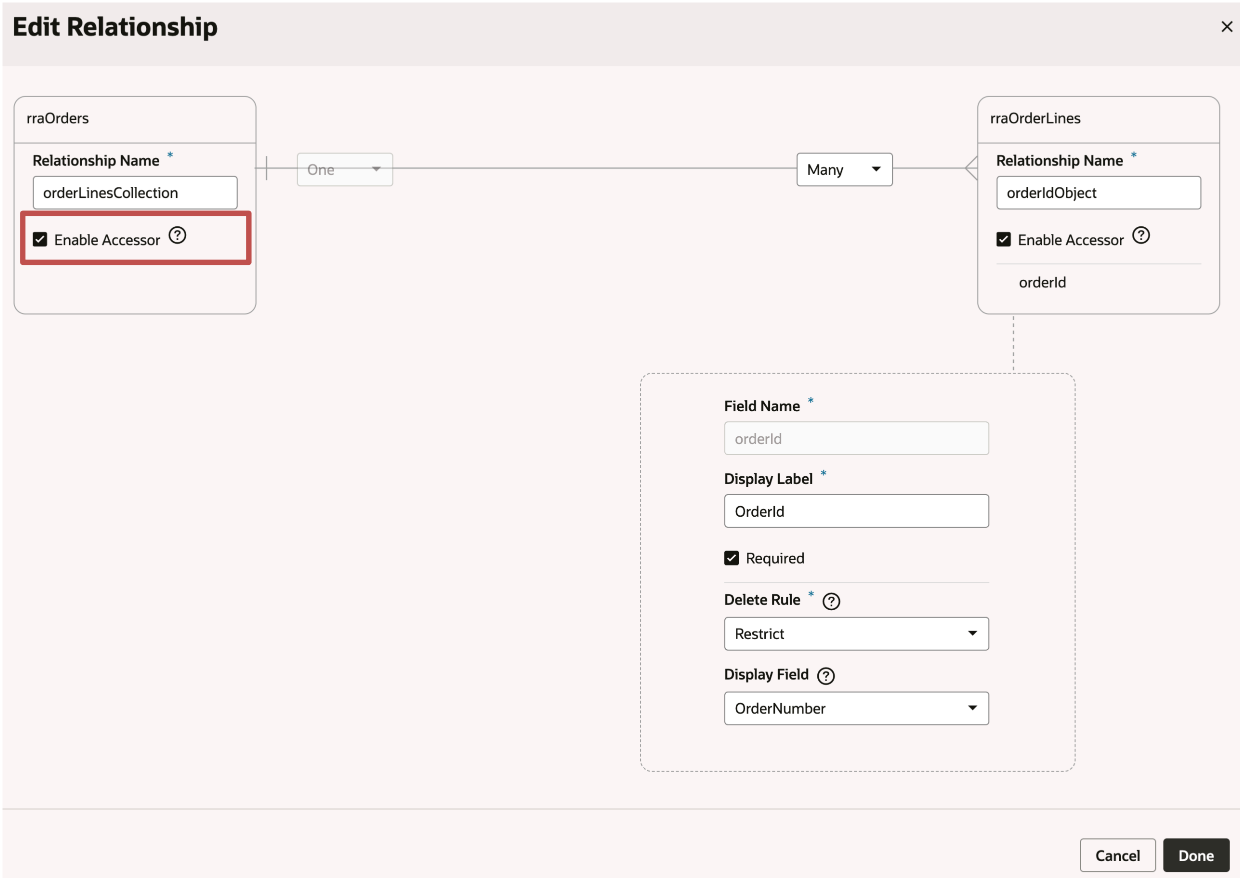
48. Click the checkbox to **Enable Accessor** for rraOrders.

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**.



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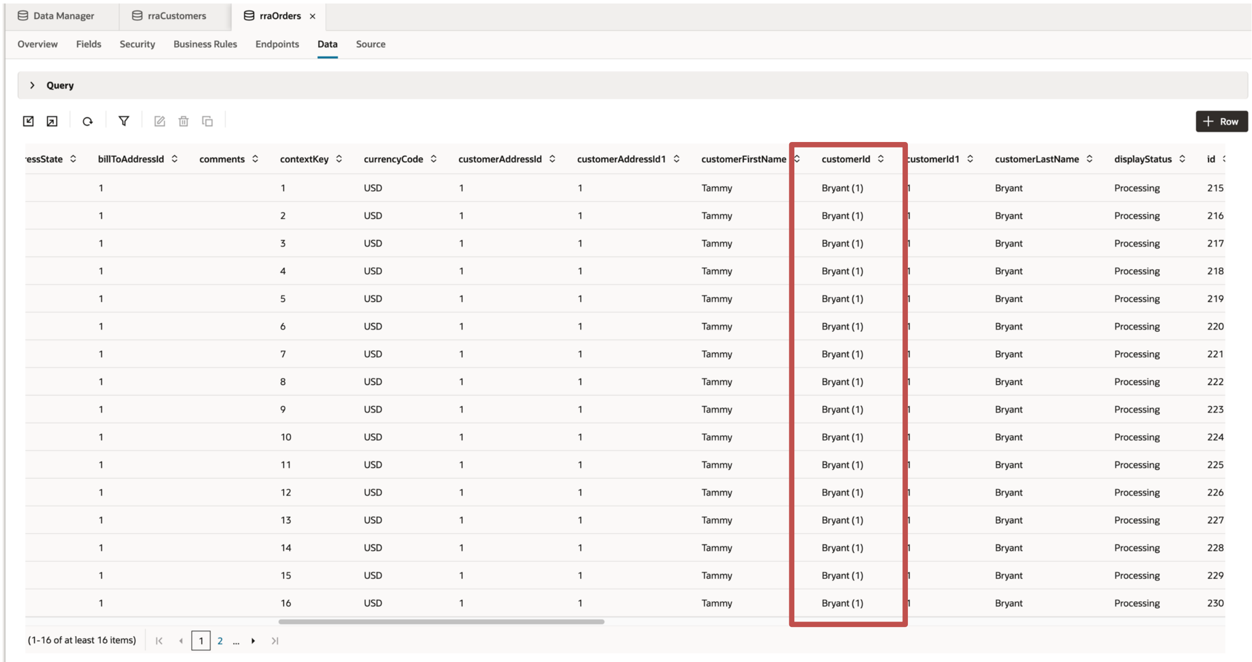
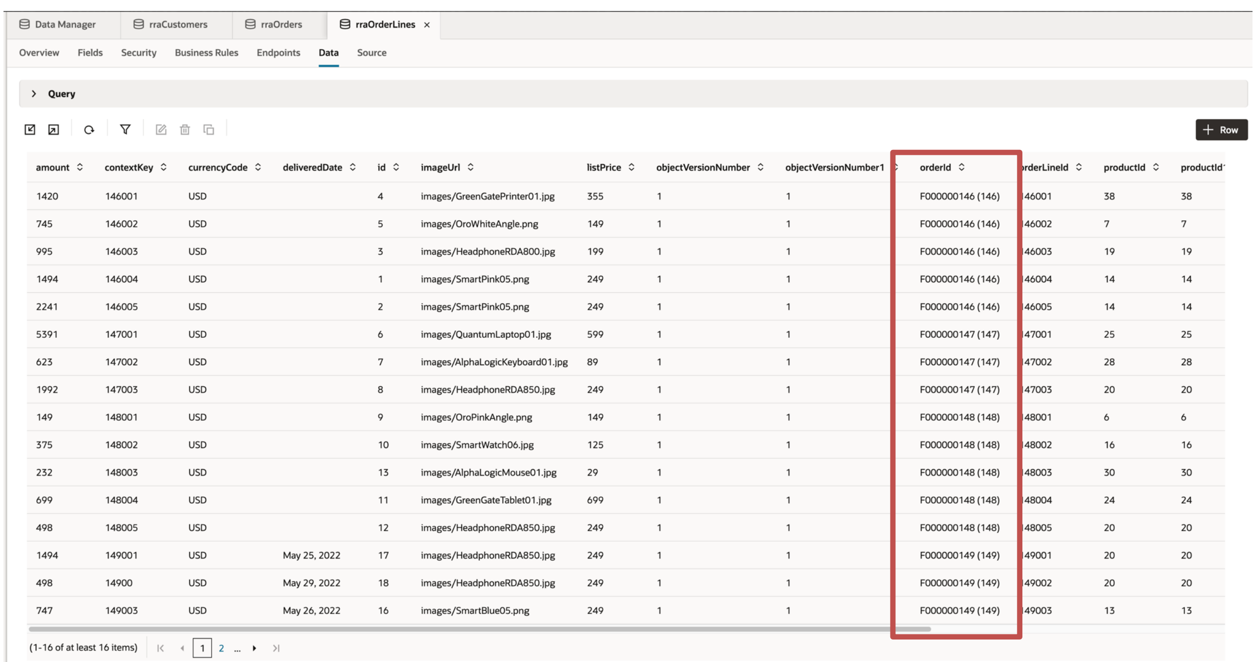
49. Confirm your work. Click the rraOrders **Data** tab. If you scroll over, you should see the customerId column showing the customer last name and the **customerId** in parentheses.



essState	billToAddressId	comments	contextKey	currencyCode	customerAddressId	customerAddressId1	customerFirstName	customerId	ustomerId1	customerLastName	displayStatus	id
	1		1	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	215
	1		2	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	216
	1		3	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	217
	1		4	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	218
	1		5	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	219
	1		6	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	220
	1		7	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	221
	1		8	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	222
	1		9	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	223
	1		10	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	224
	1		11	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	225
	1		12	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	226
	1		13	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	227
	1		14	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	228
	1		15	USD	1	1	Tammy	Bryant (1)	1	Bryant	Processing	229
	1		16	USD	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	rderLineId	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/SmartWatch06.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/GreenGateTablet01.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

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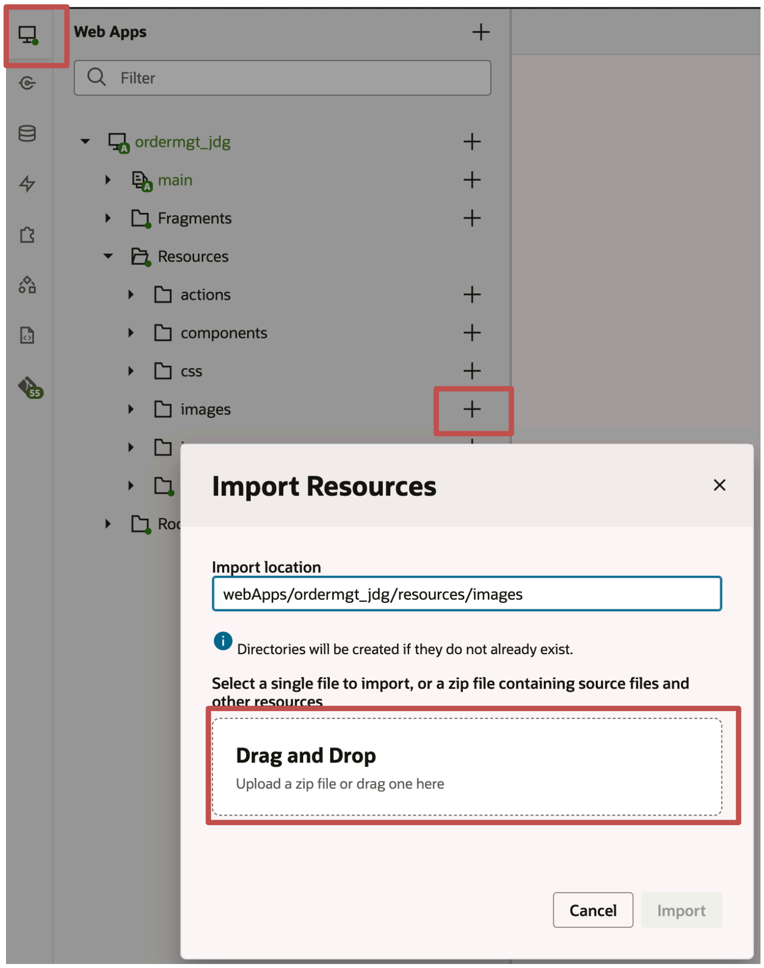
51. Close all open tabs.

    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**.



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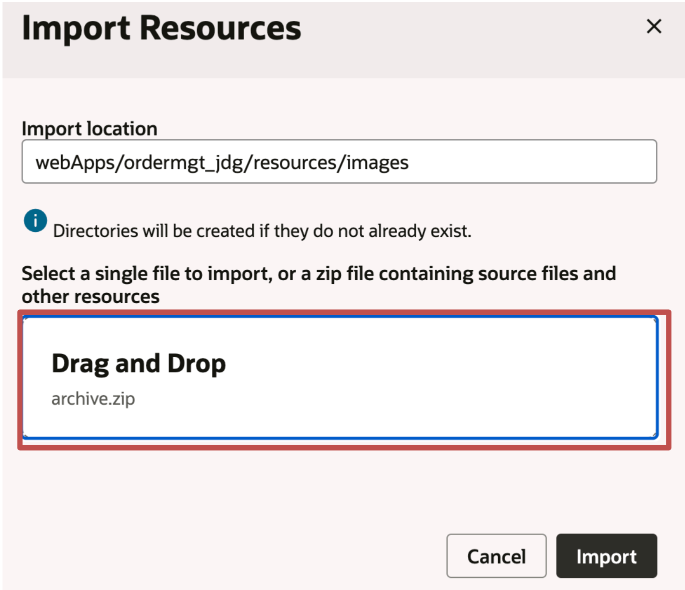
53. Drag the **`archive.zip`** file to the dialog box or click the **Drag and Drop** box and locate the file on your computer and click **Import**.



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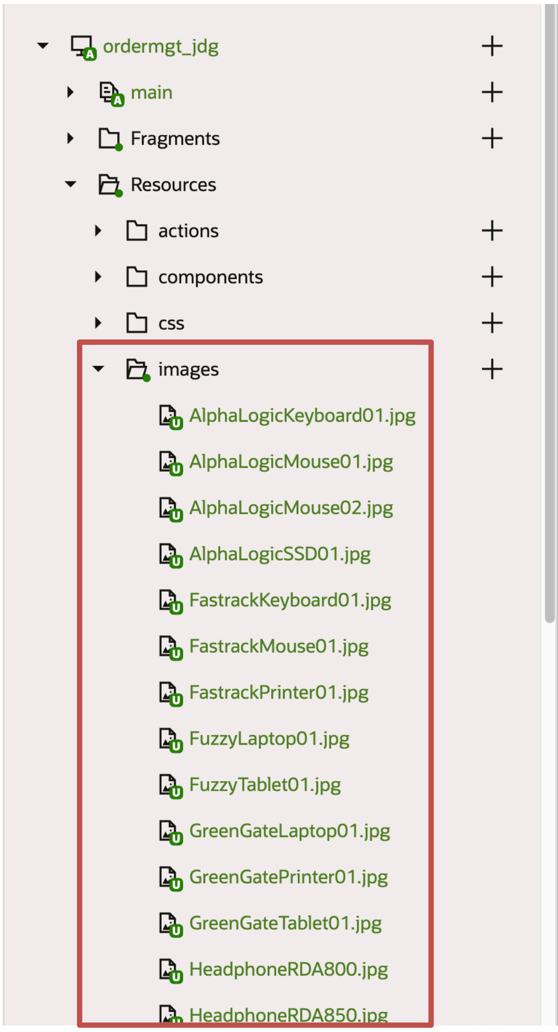
54. When the import is done, expand the **images** folder to confirm the images have been loaded.



This completes this practice.

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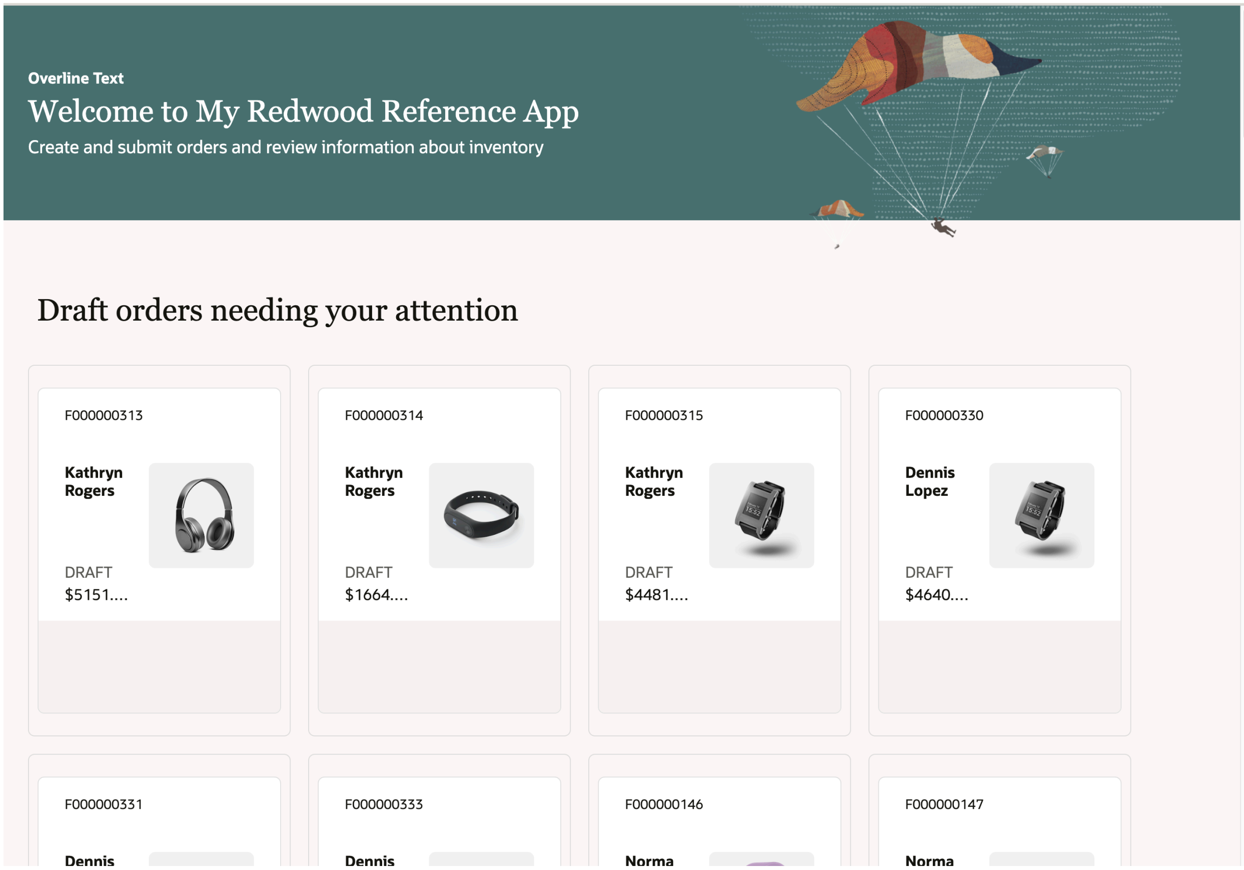
Practice 2-2: Configure the Welcome Page – Orders to Be Saved ("DRAFT")

Overview

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



Assumptions

You have successfully completed Practice 2-1.

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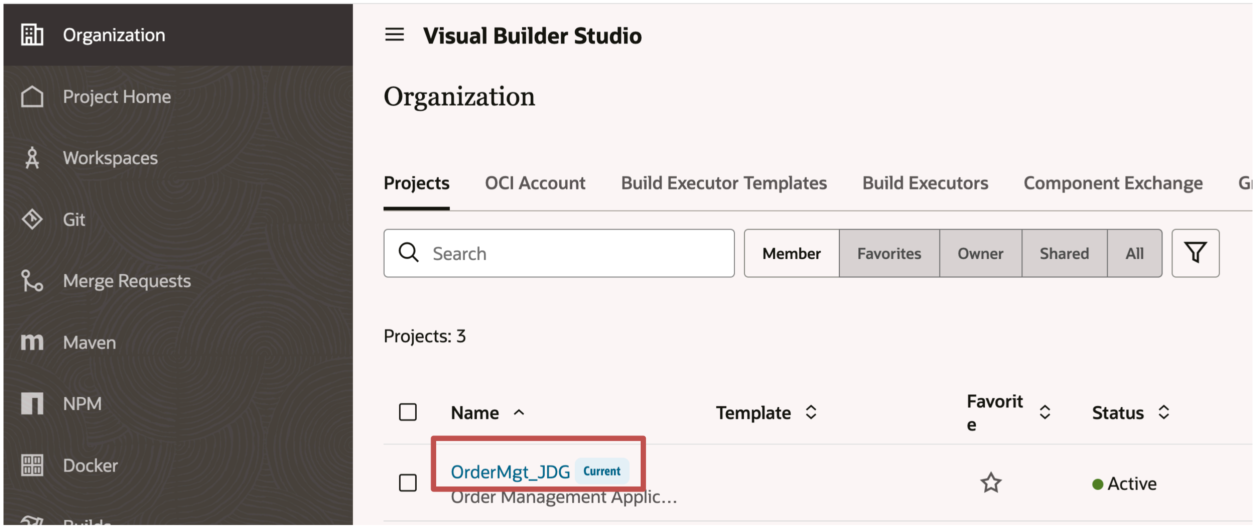
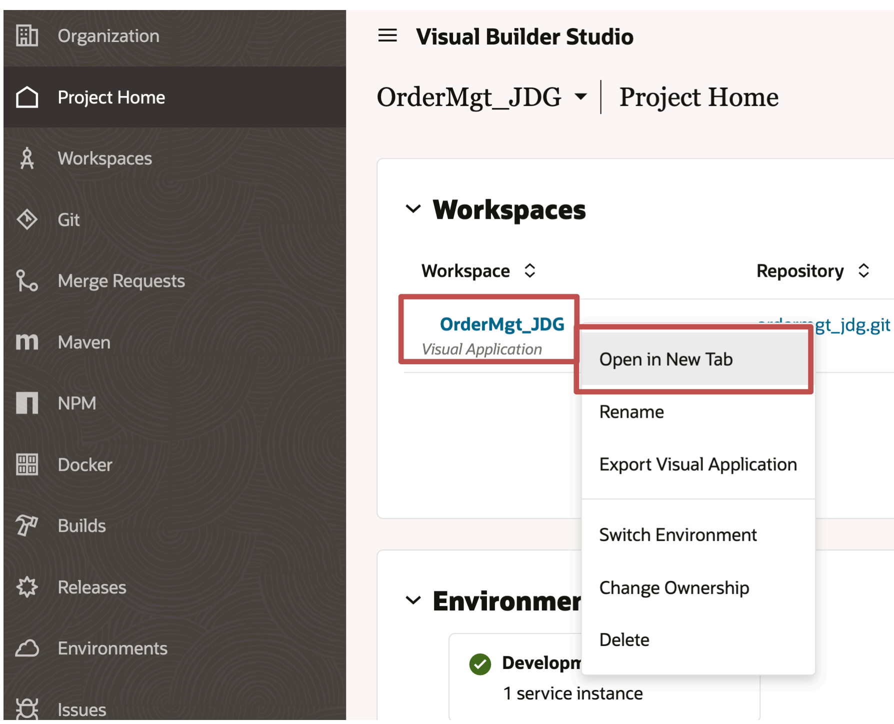
Tasks

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.



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



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

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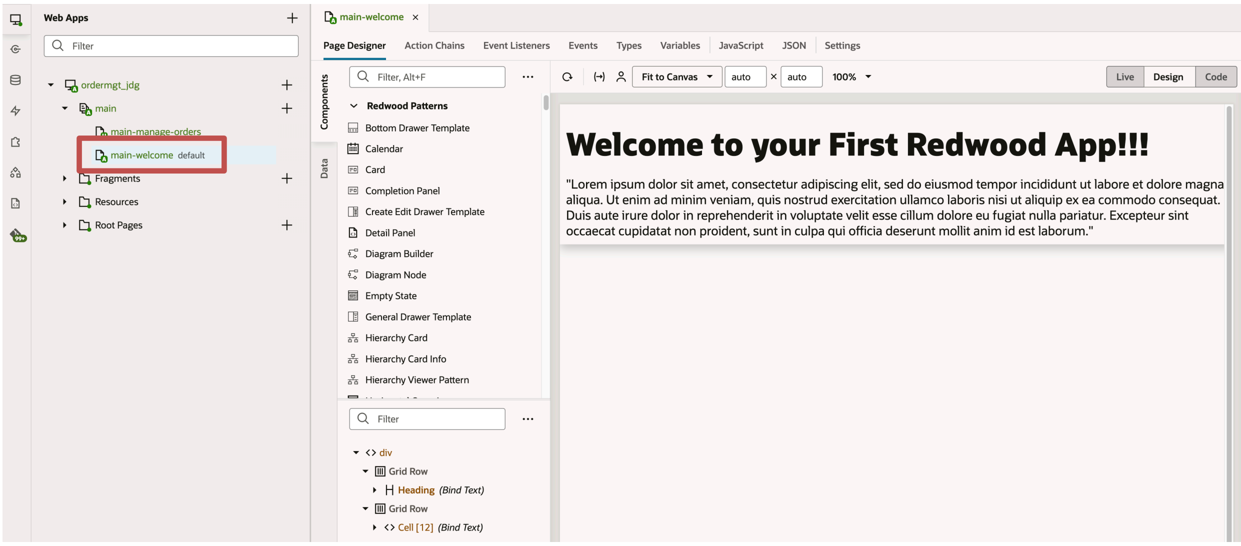
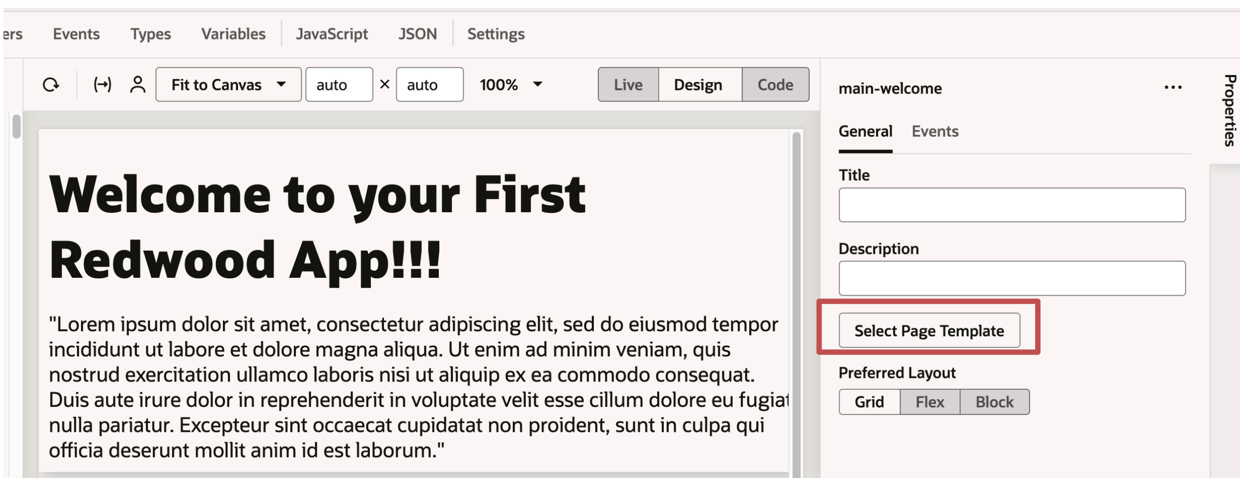
4. Select the **Web App** tab in the Navigator. Expand **ordermgt_<your initials>**. Expand **main**. Select the **main-welcome** page. It opens in Page Designer.



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



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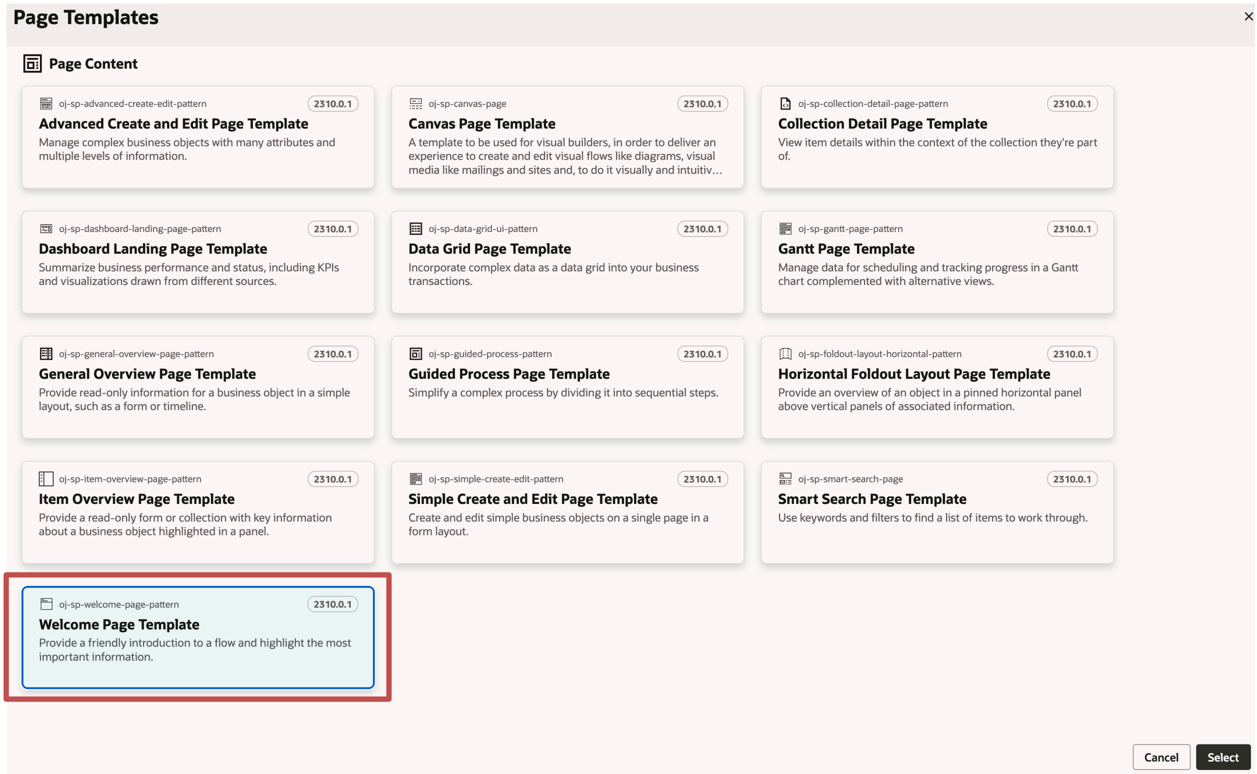
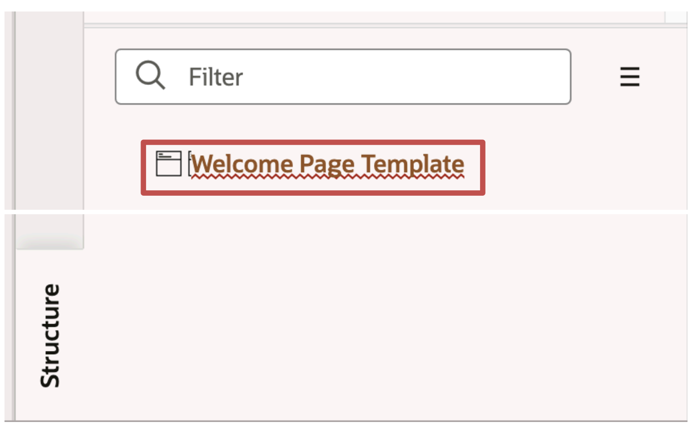
6. From the Page Templates dialog box, select the **Welcome Page Template** and click **Select**.



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



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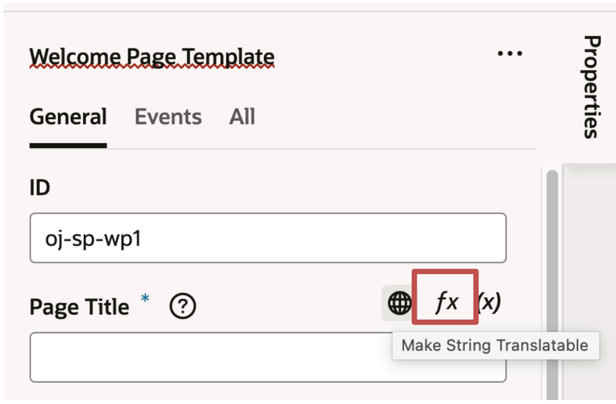
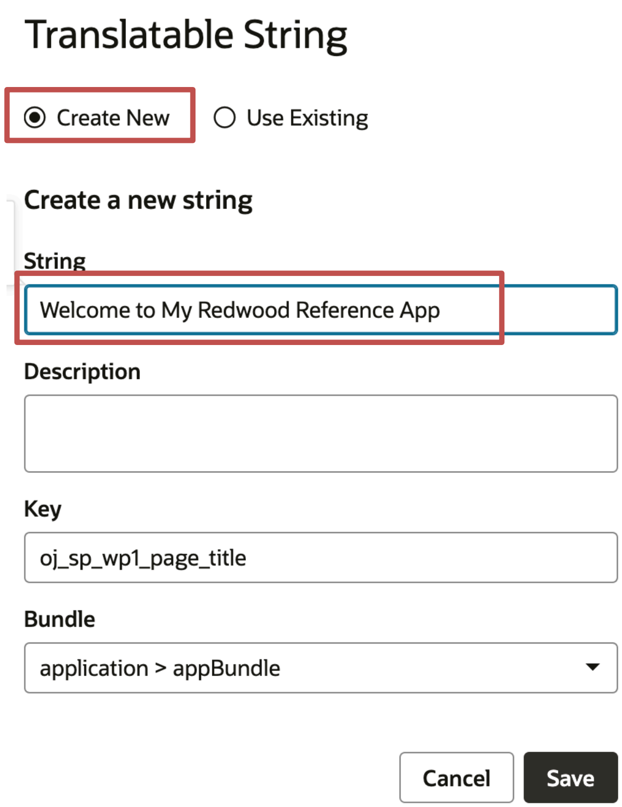
8. In the **Property** pane for the **Welcome Page Template** on the right, click the globe icon for the **Page Title** to add the title as a translatable string.

   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**.



   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.

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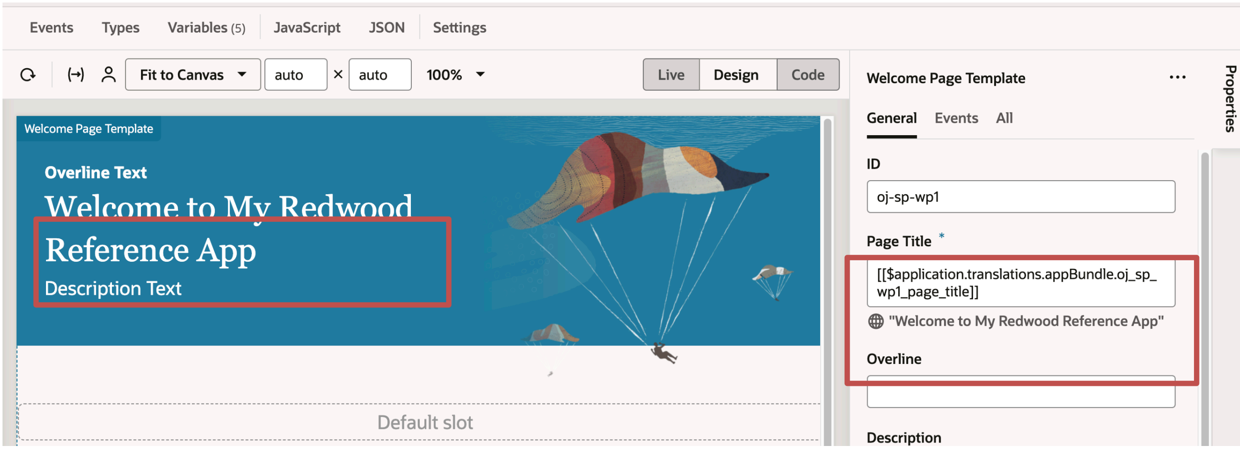
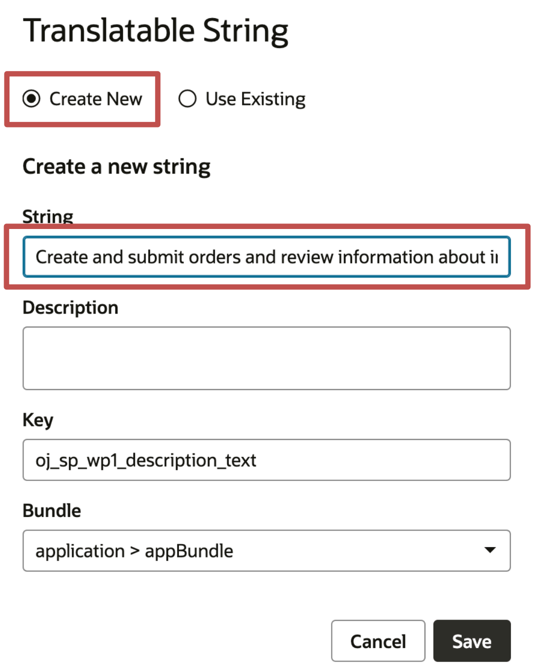
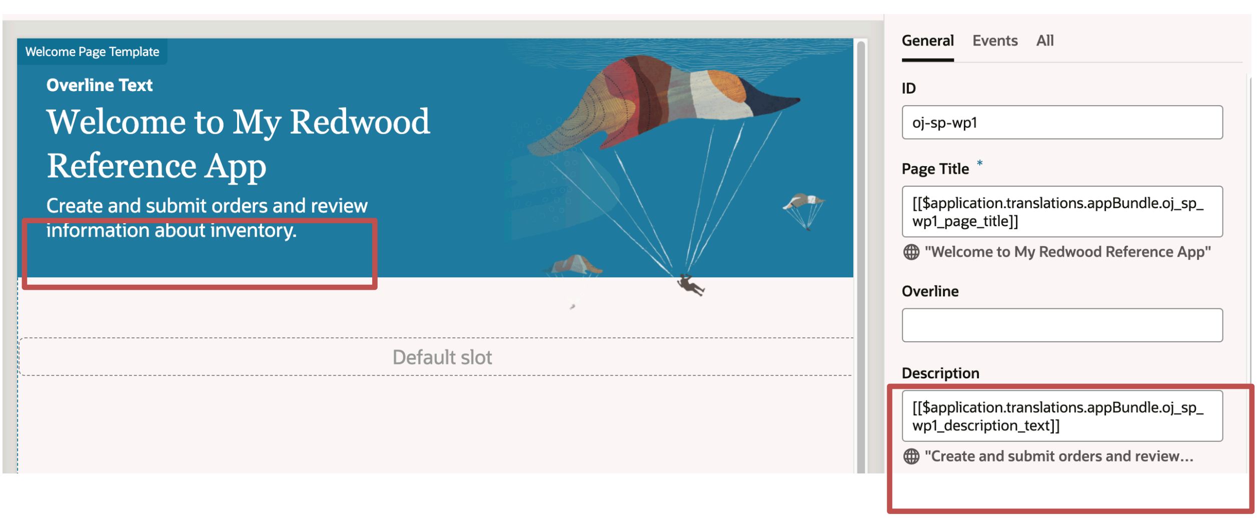


10. Click the globe for the **Description** property. Create a new translatable string of: `Create and submit orders and review information about inventory.`





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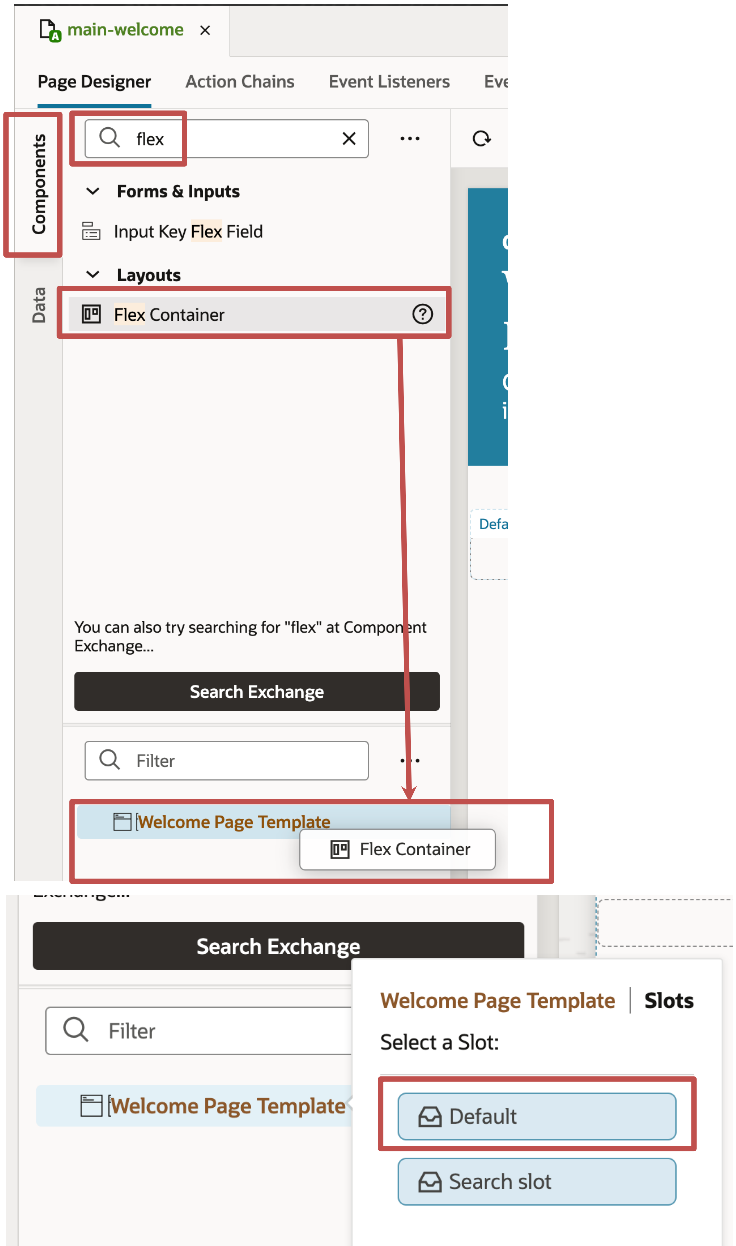
11. From the **Components** palette, find the **Flex Container** component and drag it onto the **Welcome Page Template** in the **Structure** pane to add header text to the main page. When prompted, choose the **Default** slot.



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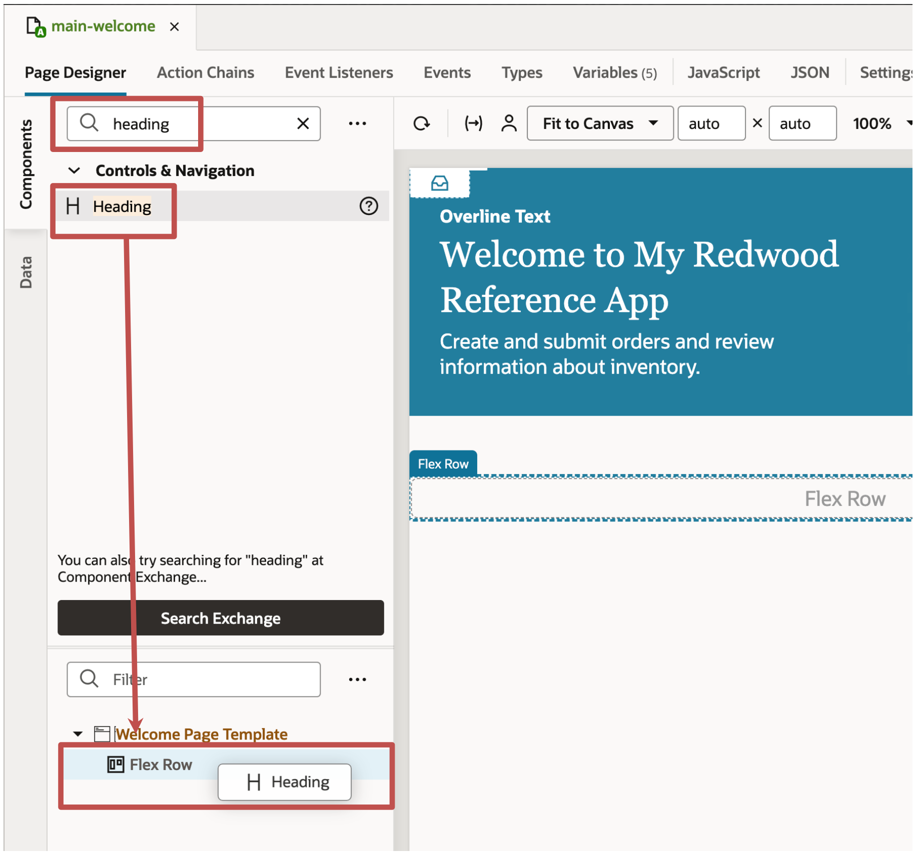
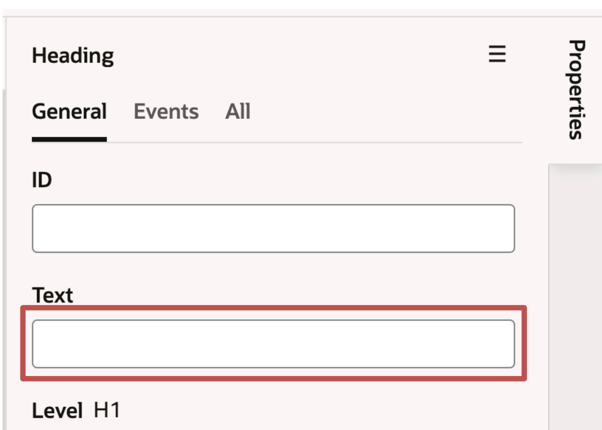
12. Add a **Heading** component to the new Flex Row.



13. Delete the text "**Heading"** from the Heading component's **Text** property.



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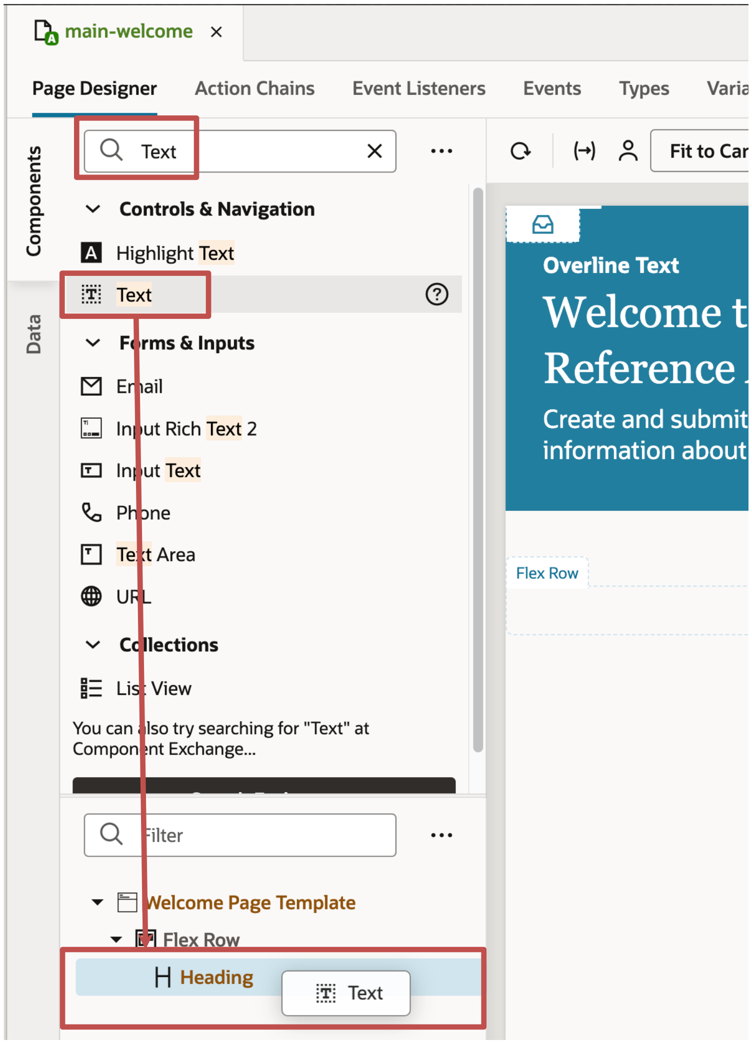
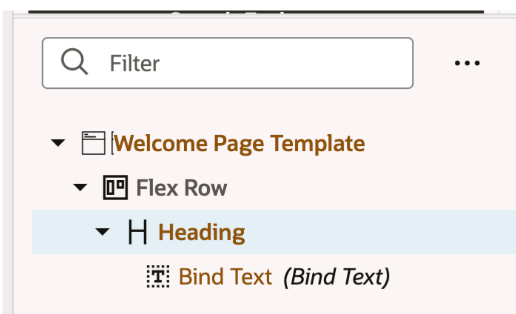
14. Add a **Text** component to the Heading. It displays as **Bind Text**.





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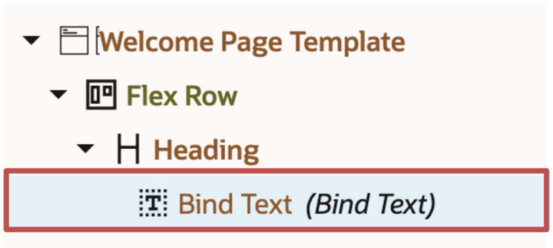
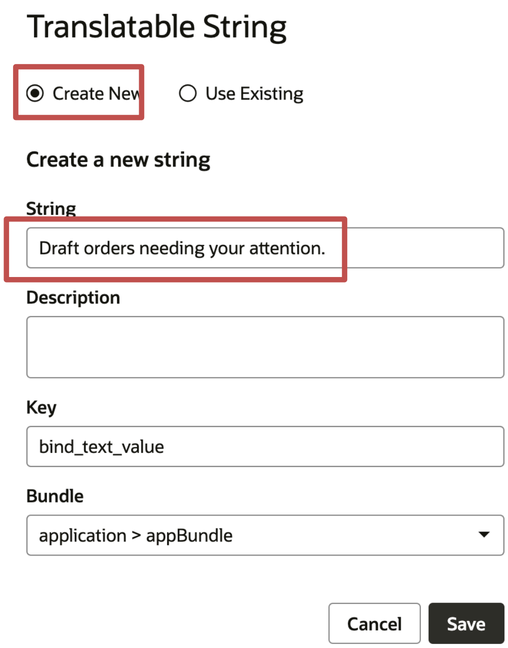
15. Select the **Bind Text** component. In the **Value** property for the **Bind Text** component, click the globe and create a new translatable string: `Draft orders needing your attention.`





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`

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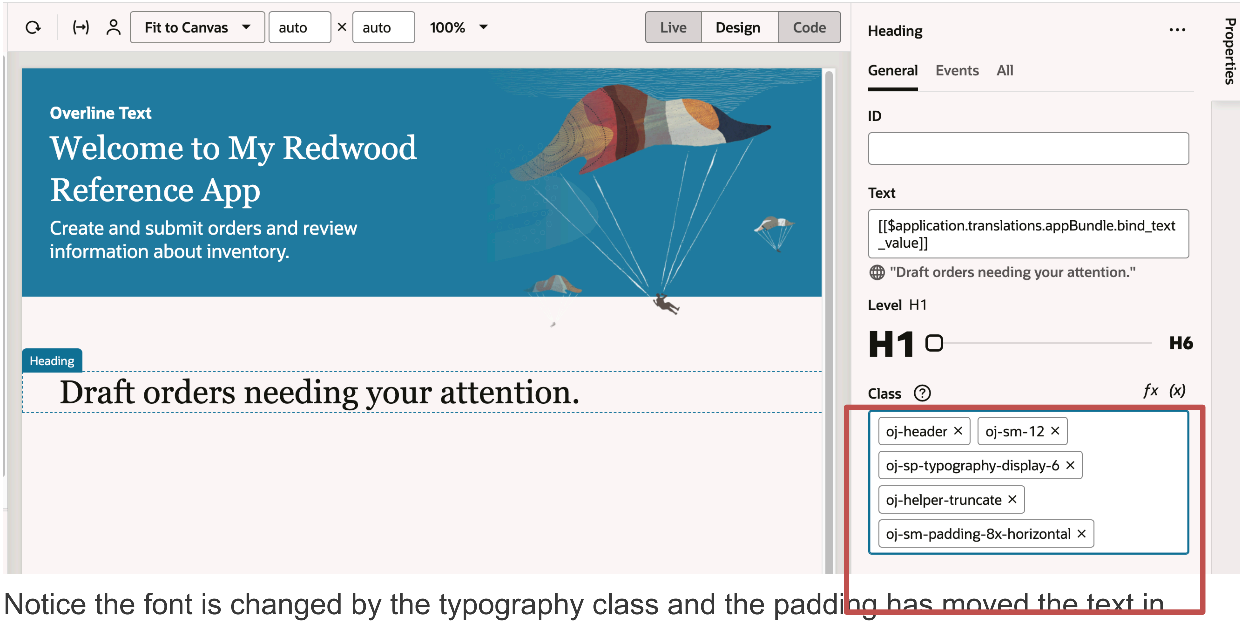
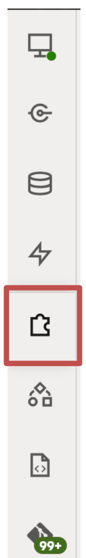


Notice the font is changed by the typography class and the padding has moved the text in from the left.

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.



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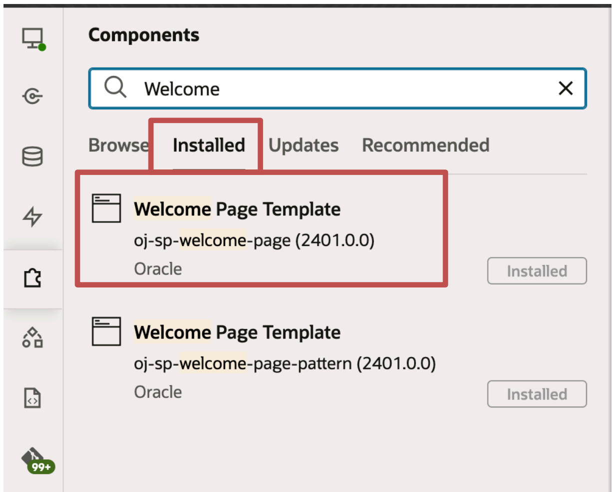
18. Select the **Installed** tab and enter `Welcome` in the **Search** field. Select the **Welcome Page Template**. Do not select the pattern. The documentation for the page template appears.



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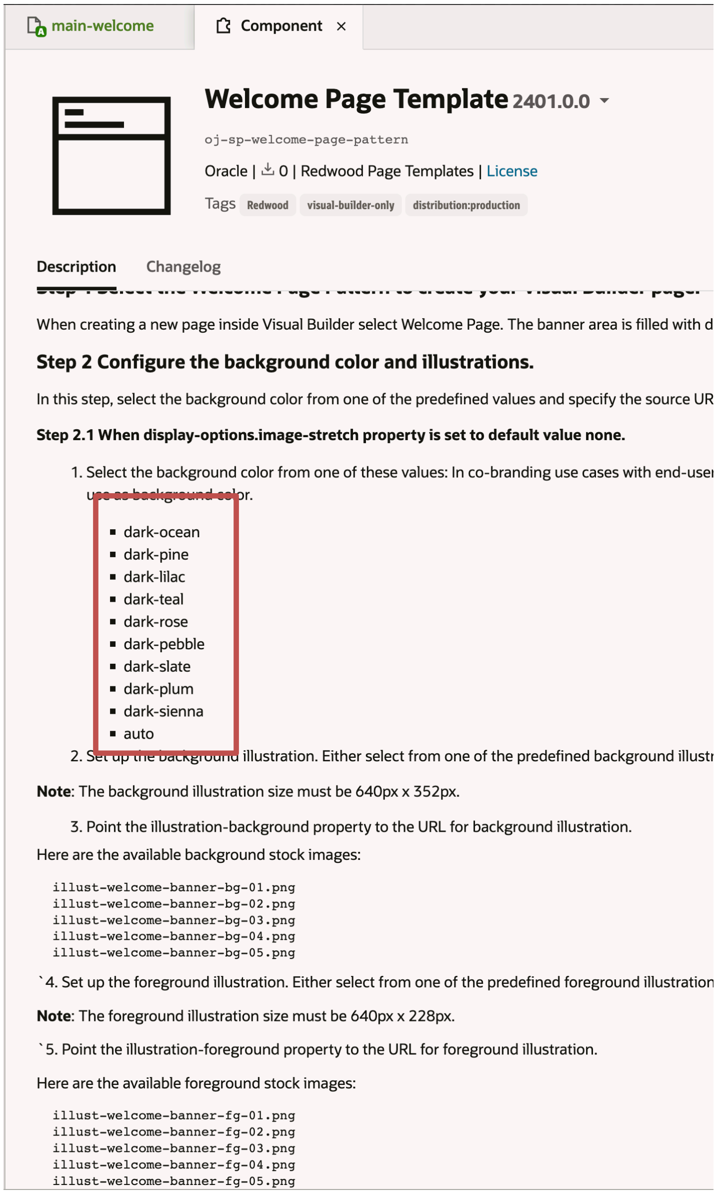
19. Scroll down and look for **Step 2 Configure the background color and illustrations**. Notice the list of colors. Below that is the list of available illustrations for the background.



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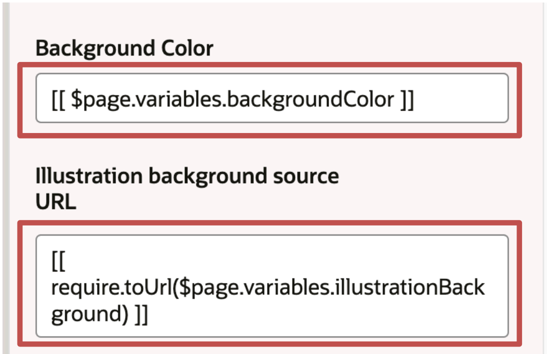
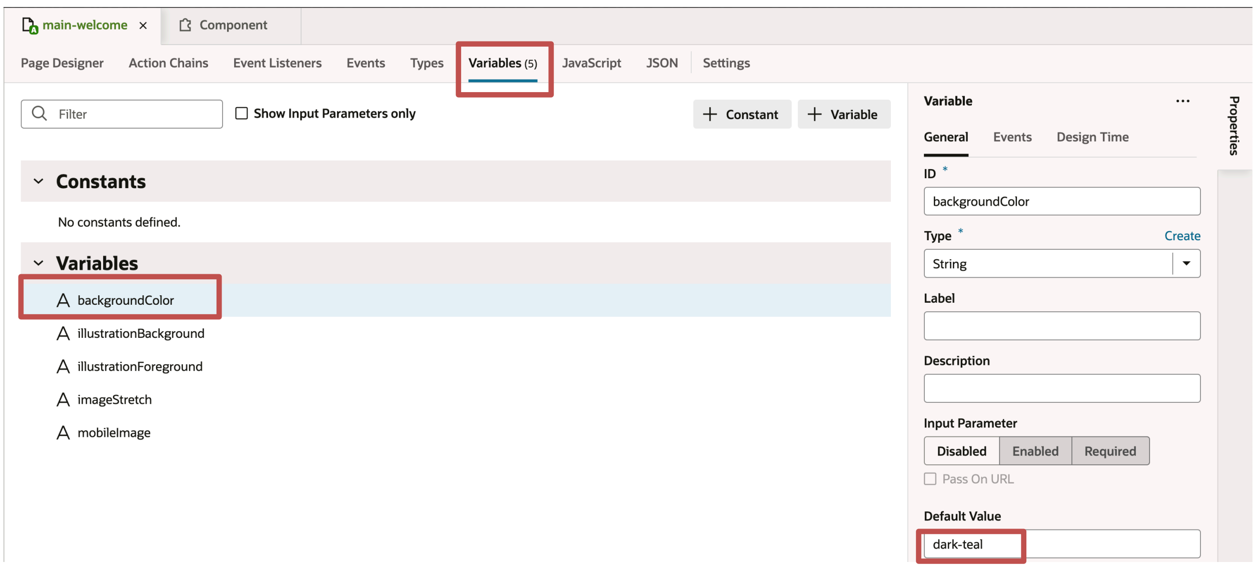
20. Click the **main-welcome** tab to return to the page. Select the **Welcome Page Template** in the **Structure** pane. Notice the **Background Color** and **Illustration background source URL** properties both use variables to provide their values. This is common practice in VBS and Redwood components.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



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



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-0**2**.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.

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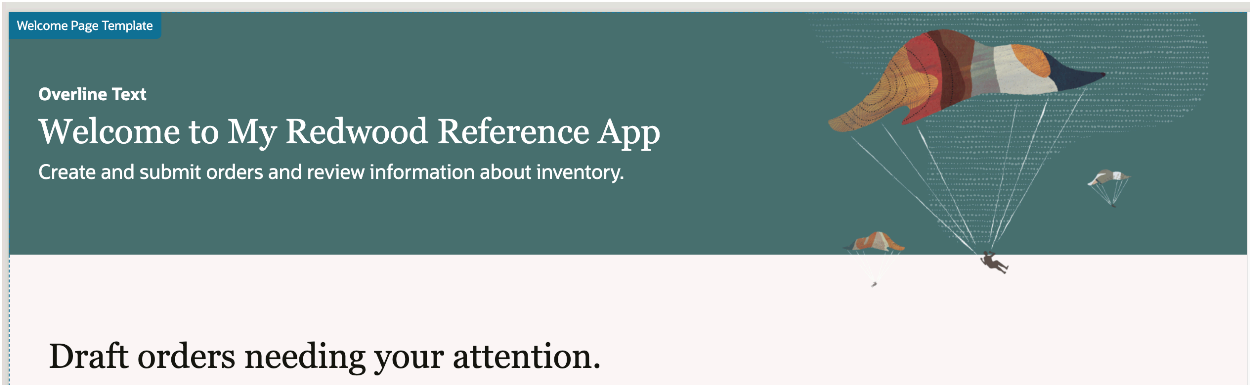
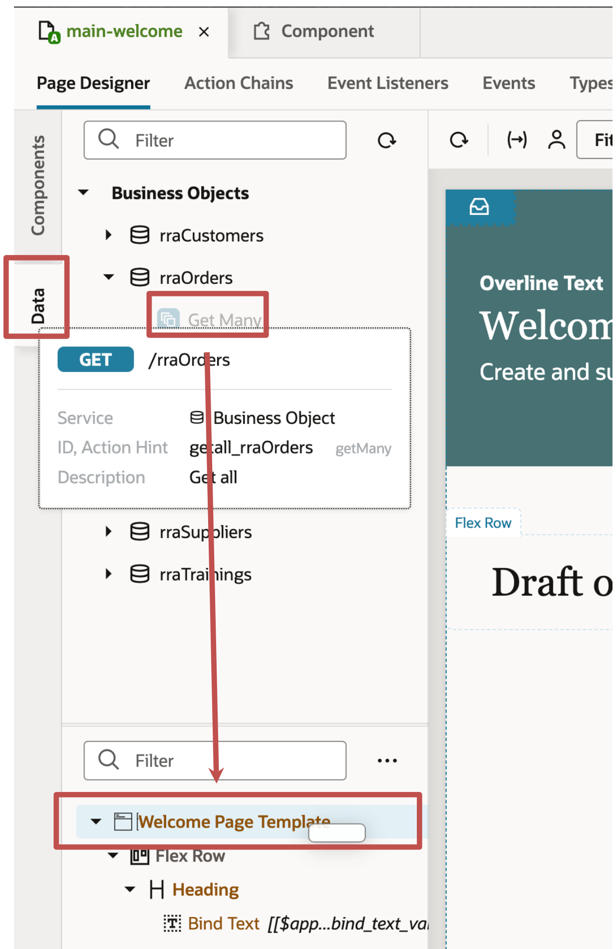
23. Click the **Page Designer** tab to view the results. The background color and illustration are changed.



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.



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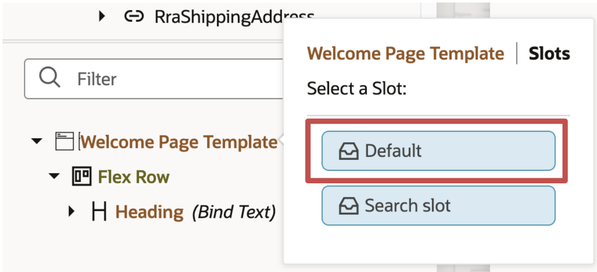
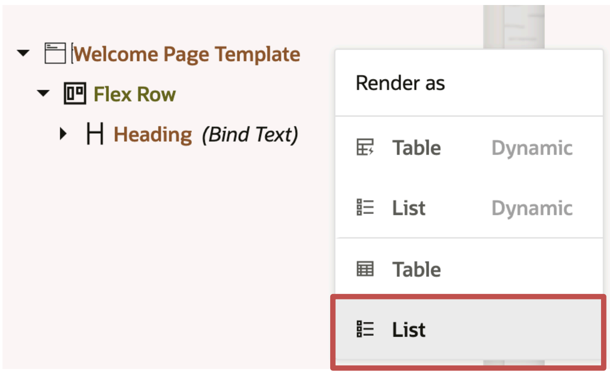
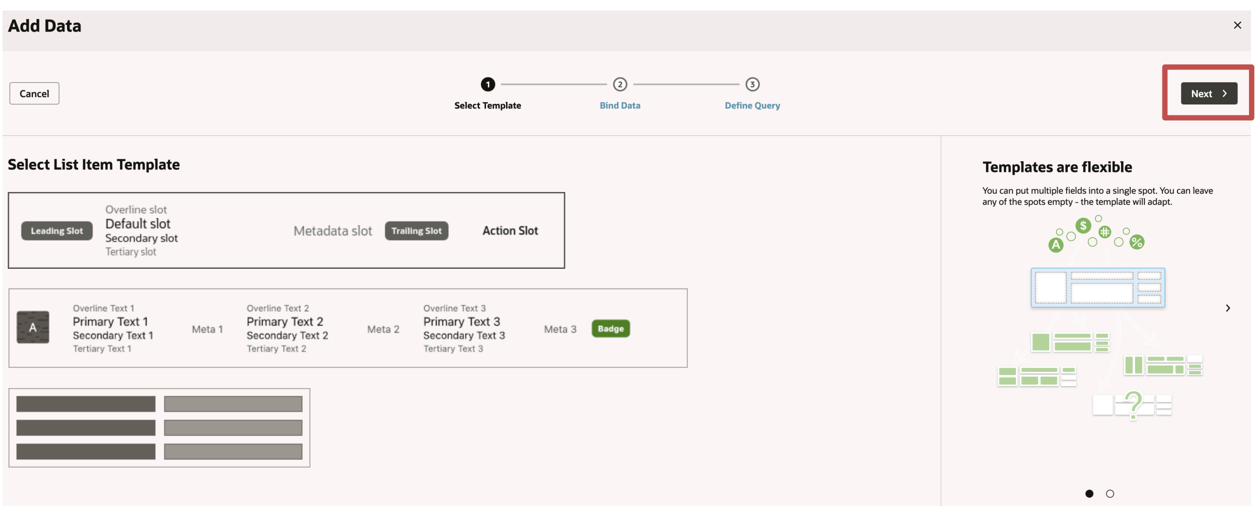


25. Choose **Render as List** when prompted.



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



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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**.

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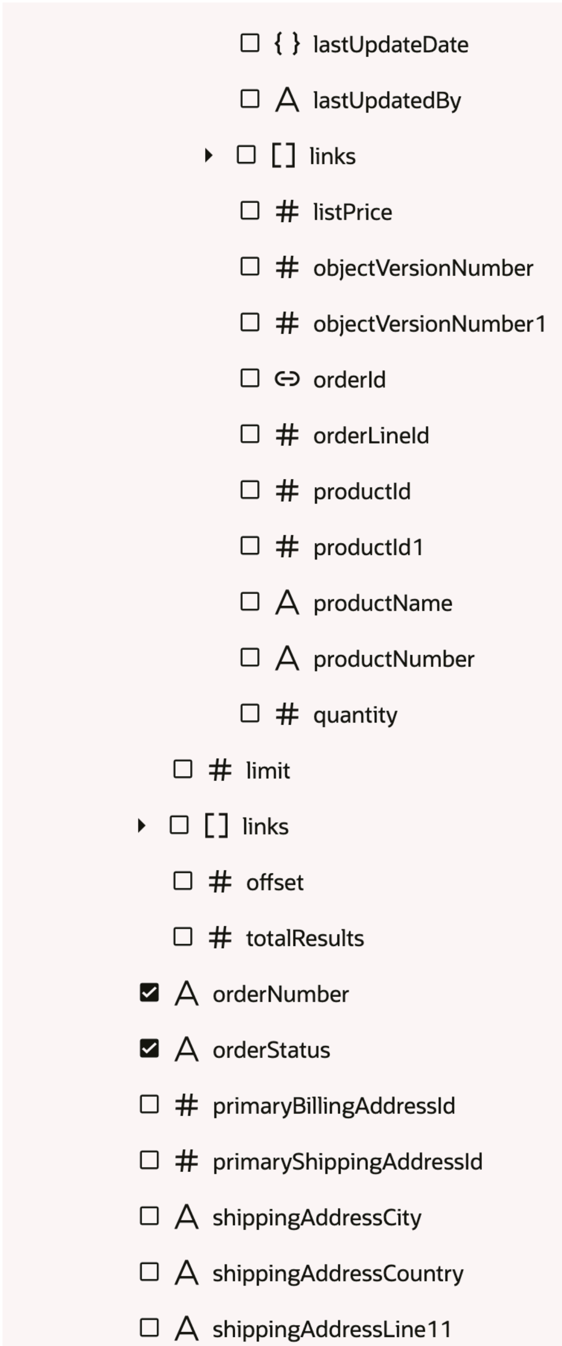

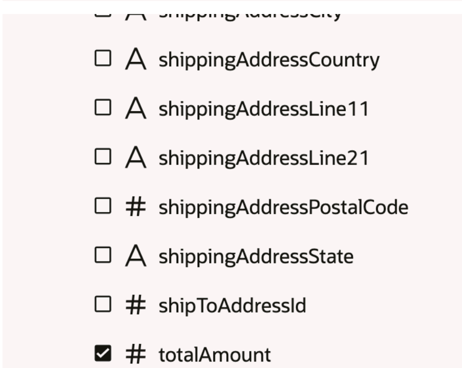

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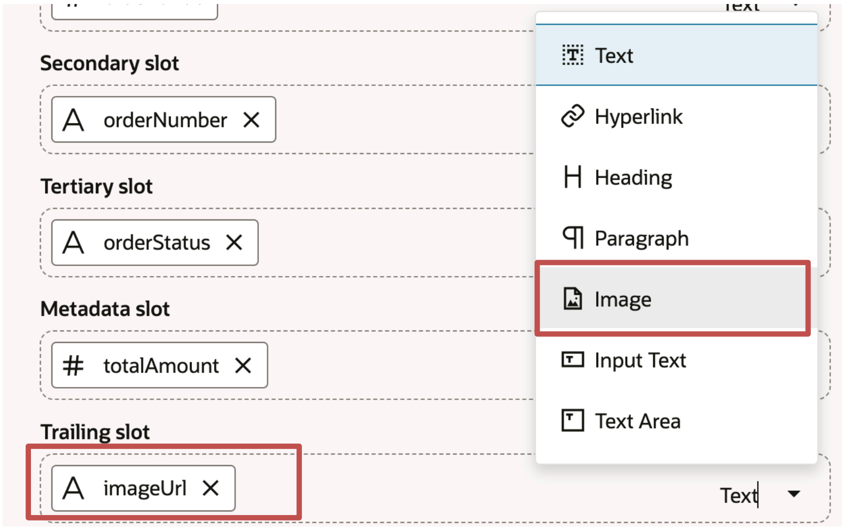
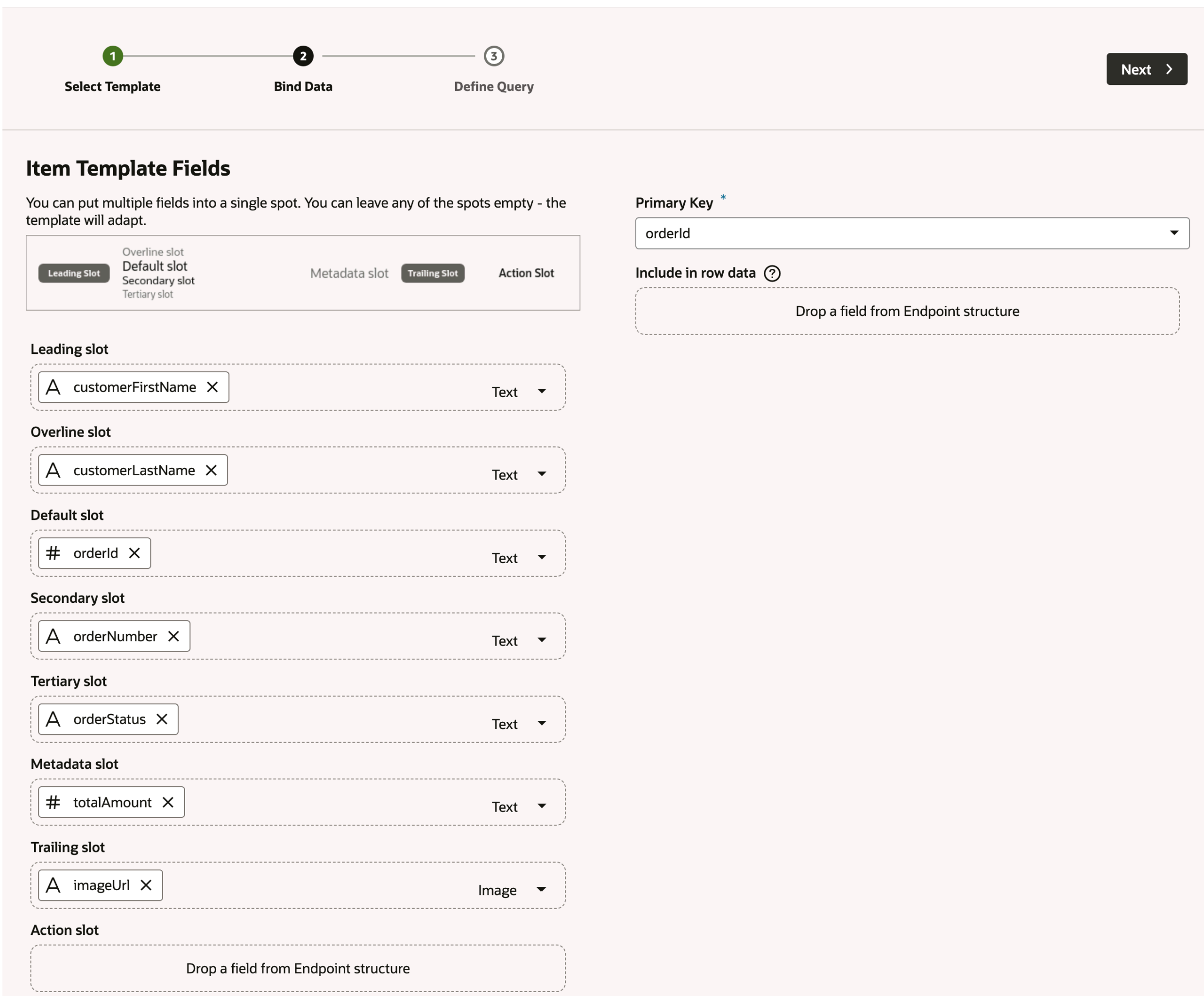
28. For the **imageUrl** field, change it from Text to **Image**.





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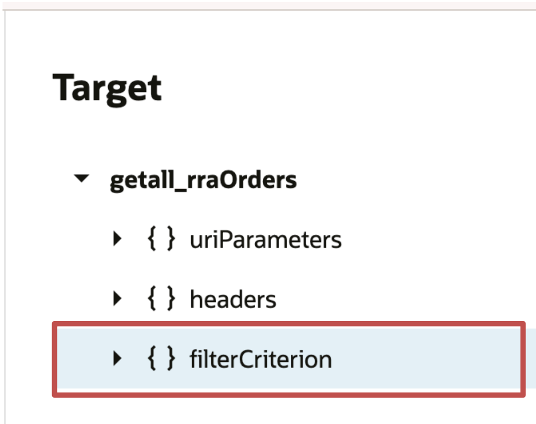
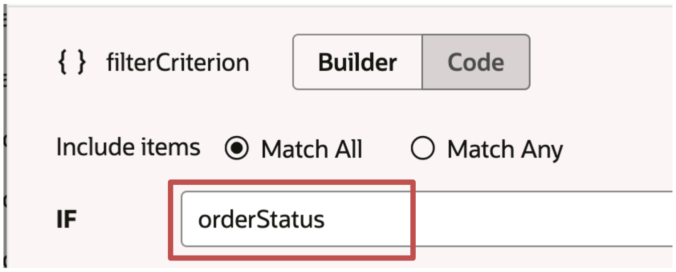
29. Click **Next**.
30. Click **filterCriterion** on the right, under **Target**.

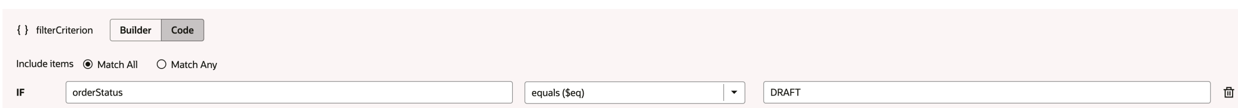


31. In the **Builder** at the bottom of the screen, click the **Click to add condition** link.
32. Select **orderStatus** for the first Attribute.



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

34. Select the second Attribute and enter `DRAFT`.



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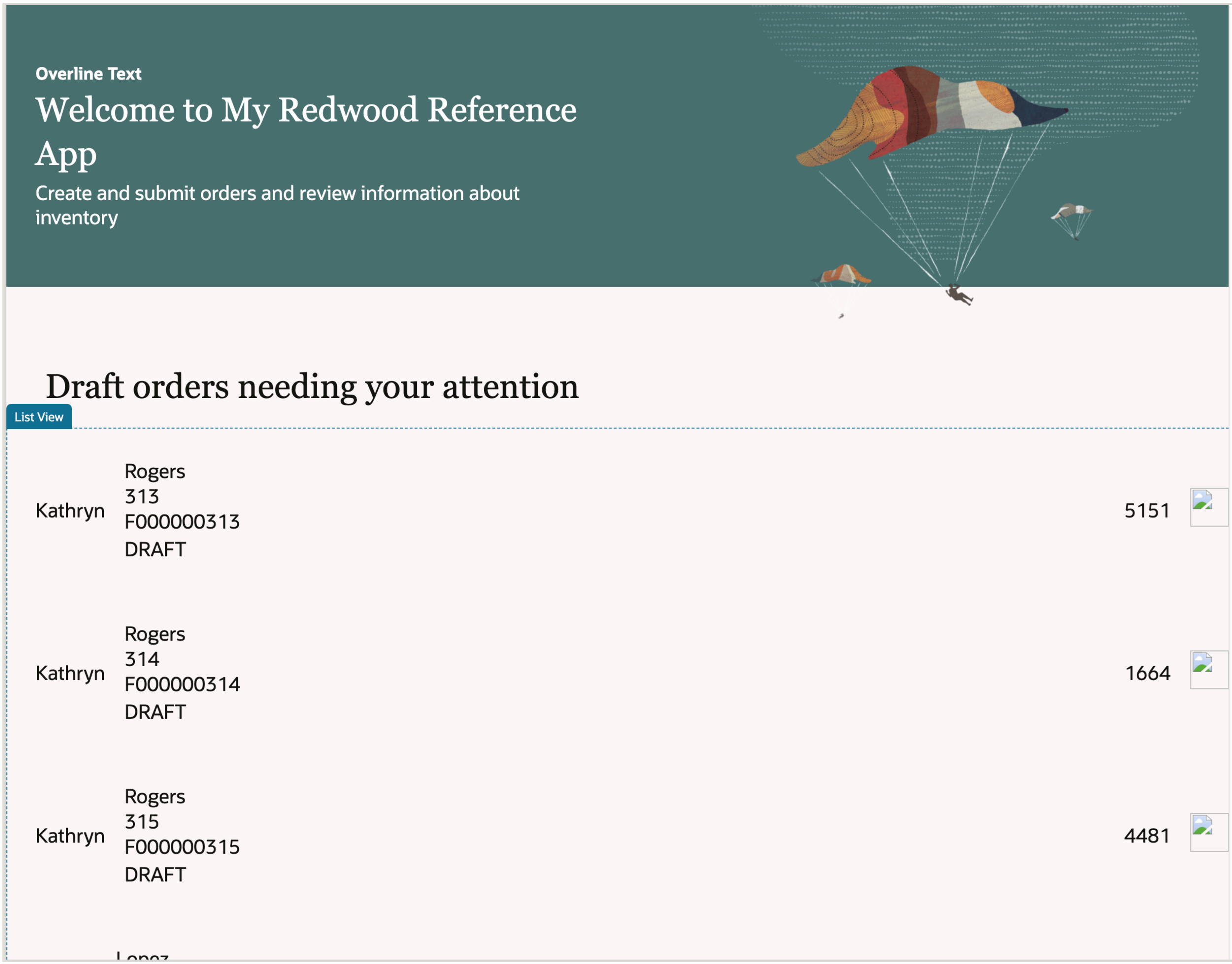
35. Click **Done**. Then click **Finish**.

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



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.

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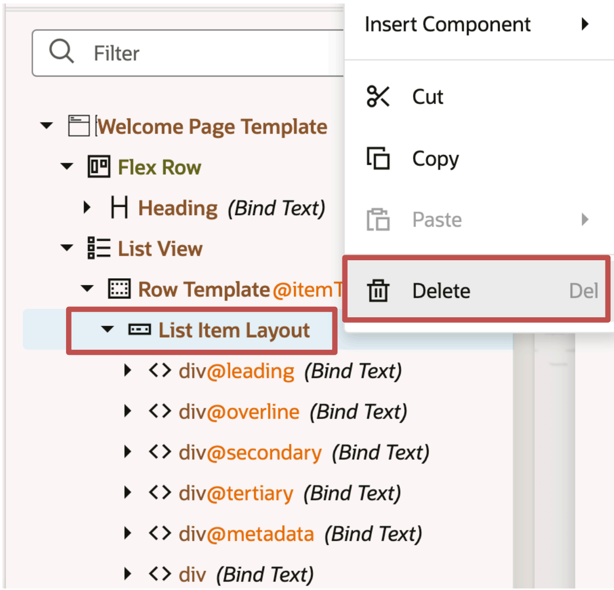
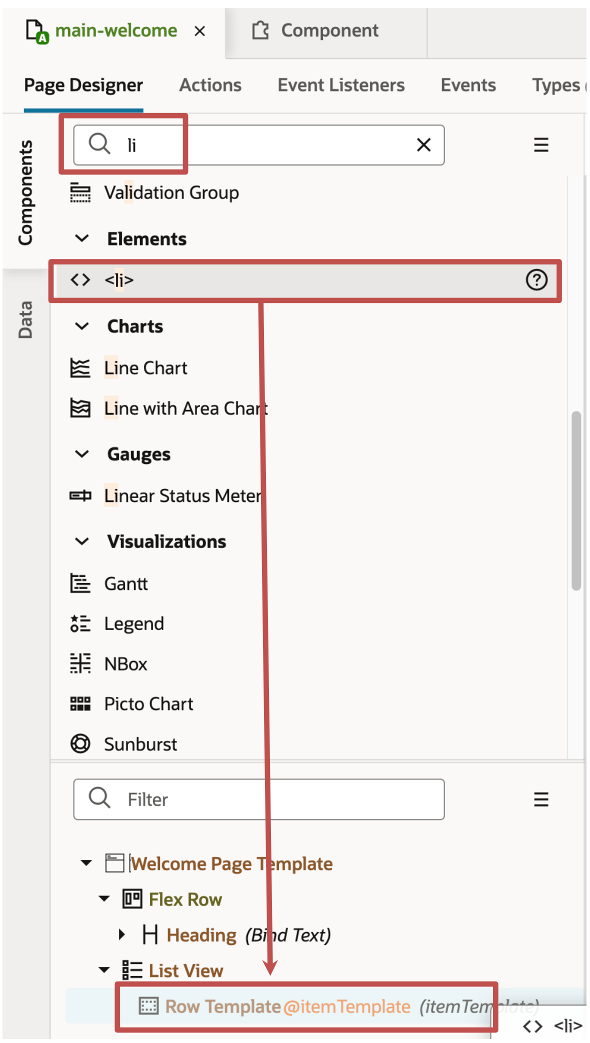
36. Modify the list to present the orders as cards. Select the **List Item Layout** in the **Structure** pane and press the **Delete** key or right-click and select **Delete**.



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



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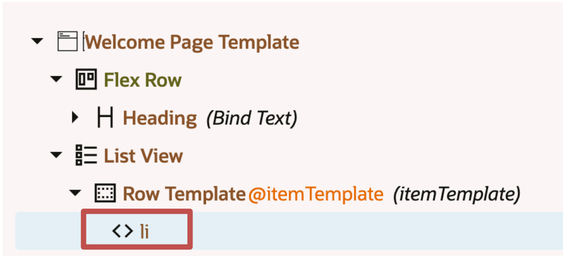
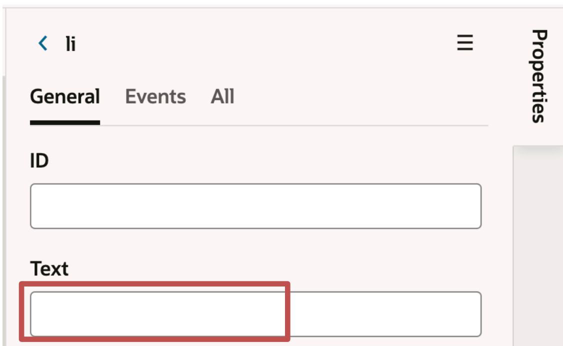
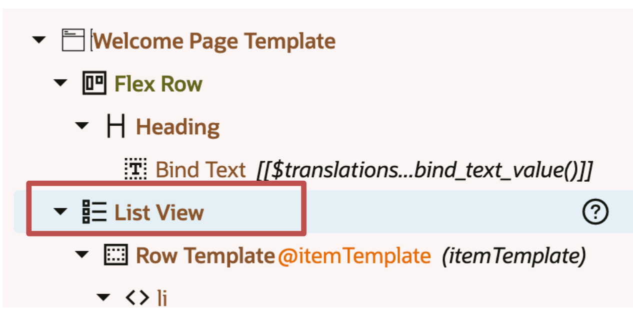
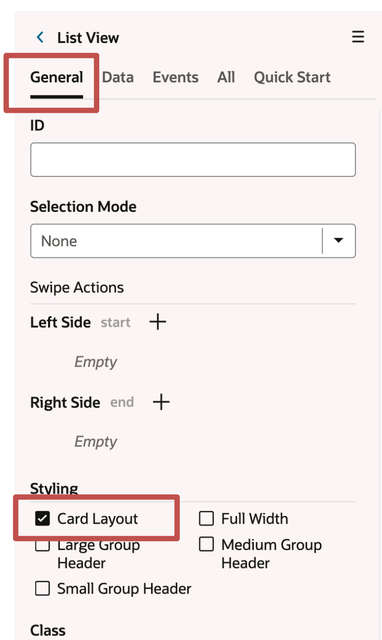
38. Select the new **li** element and, in its Property pane, delete the **Item** text.





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





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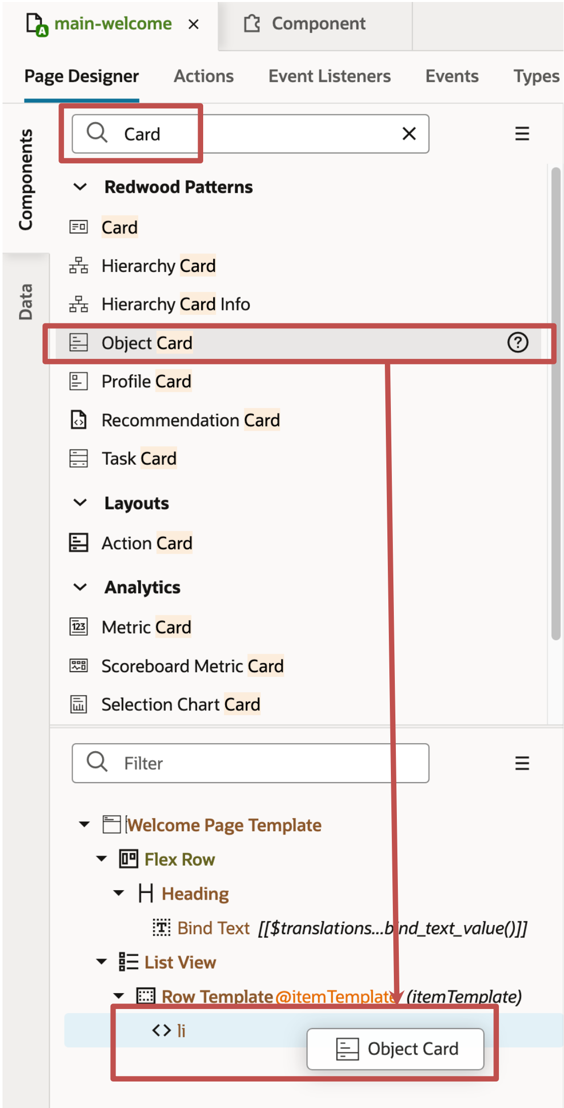
40. Drag an **Object Card** component onto the **li** element in the **Structure** pane.



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 ]]
```

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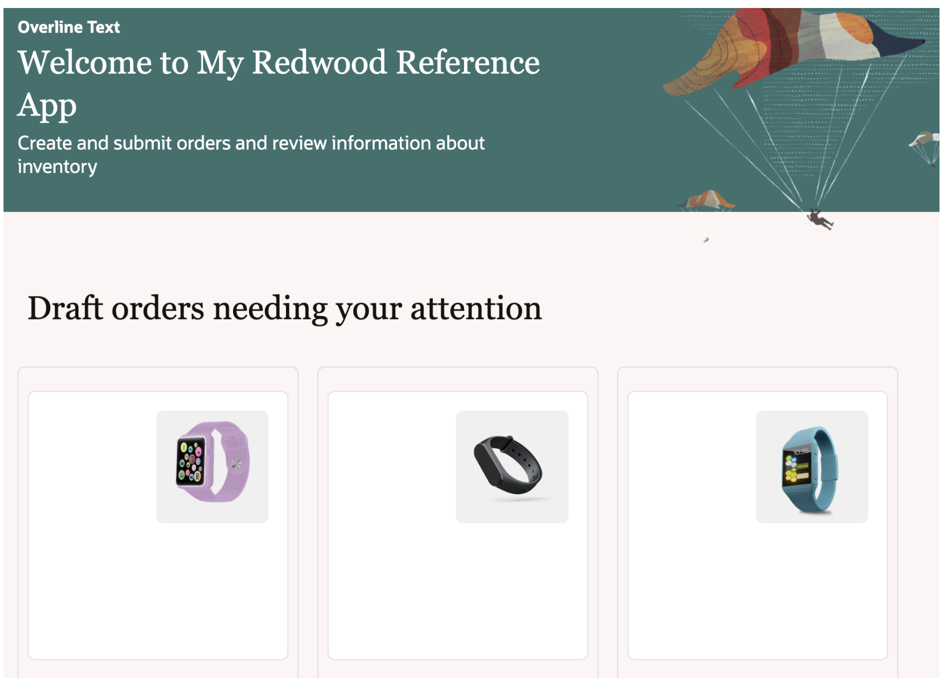
You will see the images appear on the cards.



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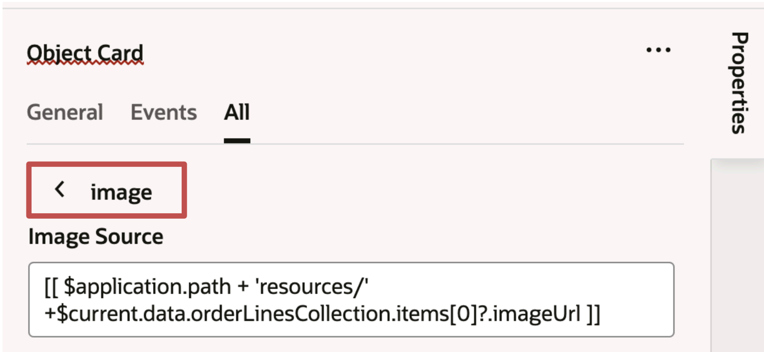
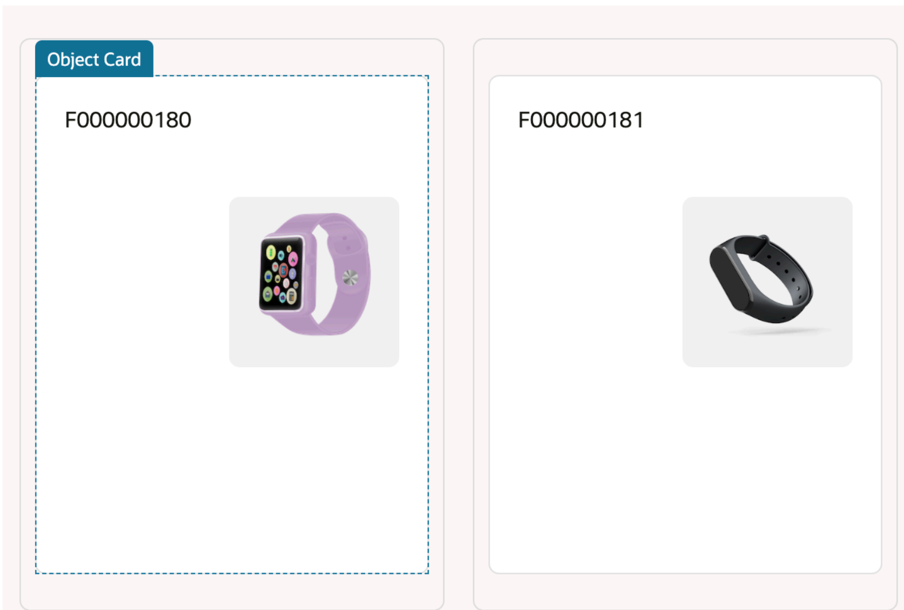
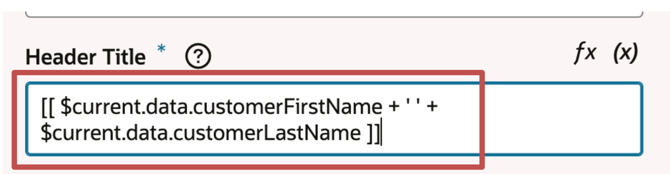
43. Click the **< image** link to return to the properties.



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



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



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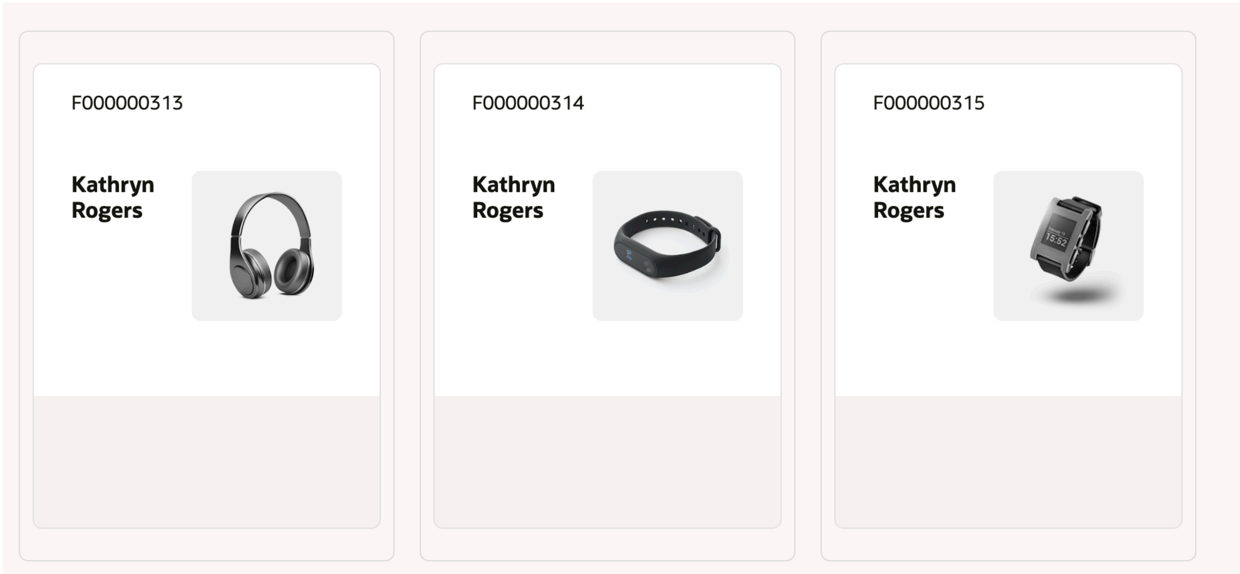
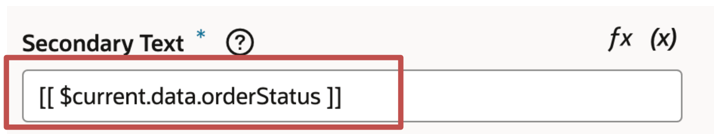
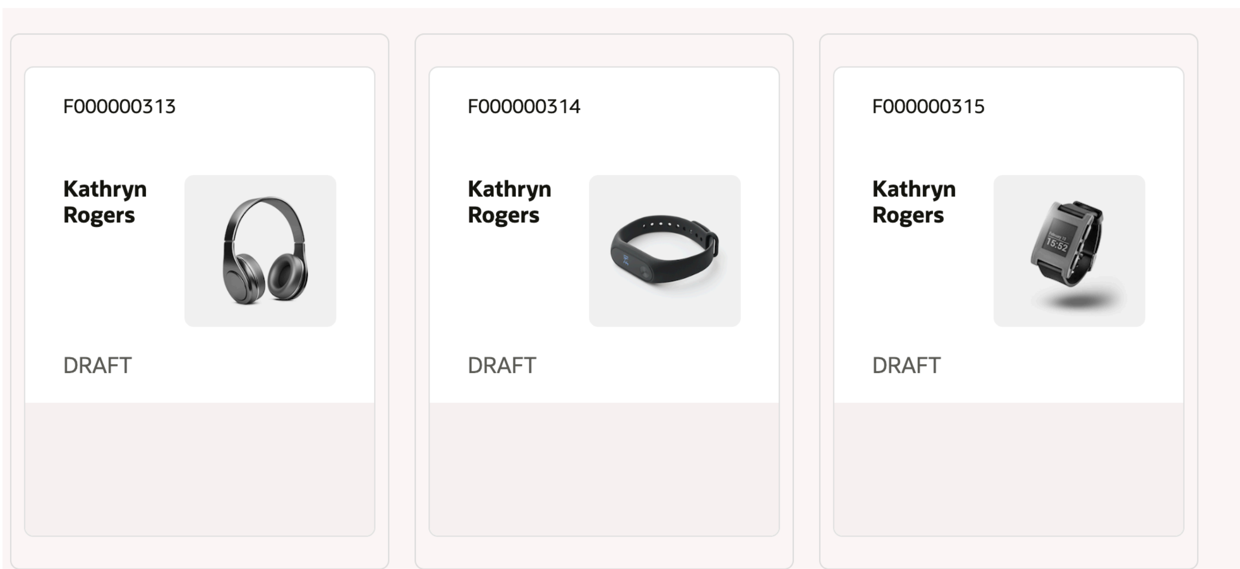


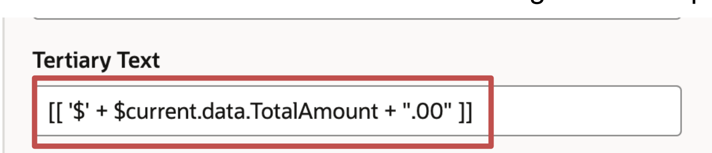
- For **Secondary Text**, enter: `[[ $current.data.orderStatus ]]`





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

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



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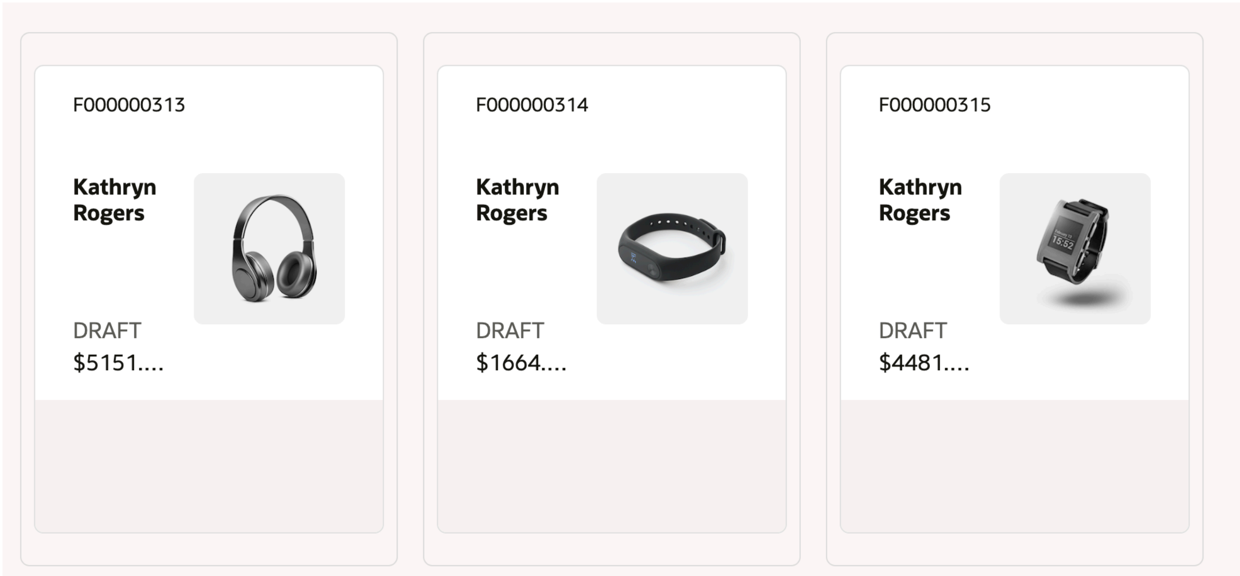

When you are done, the display should look like this:

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.

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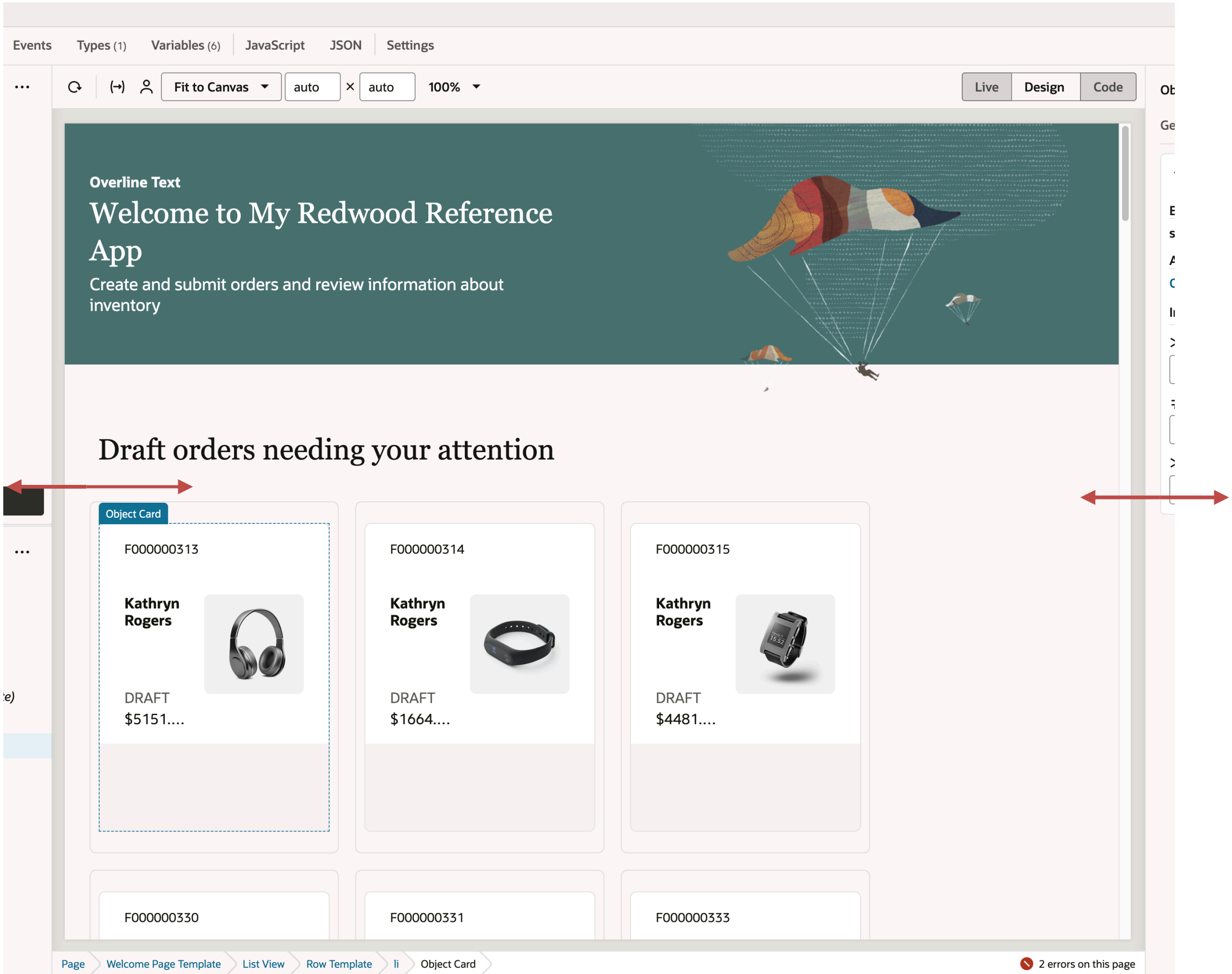

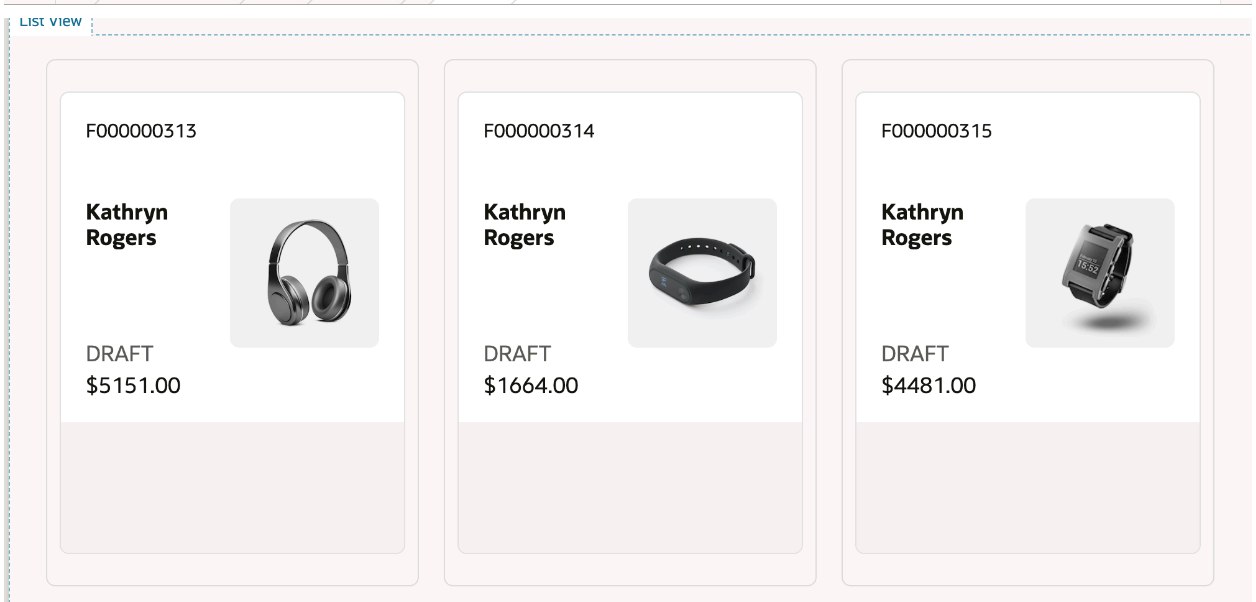

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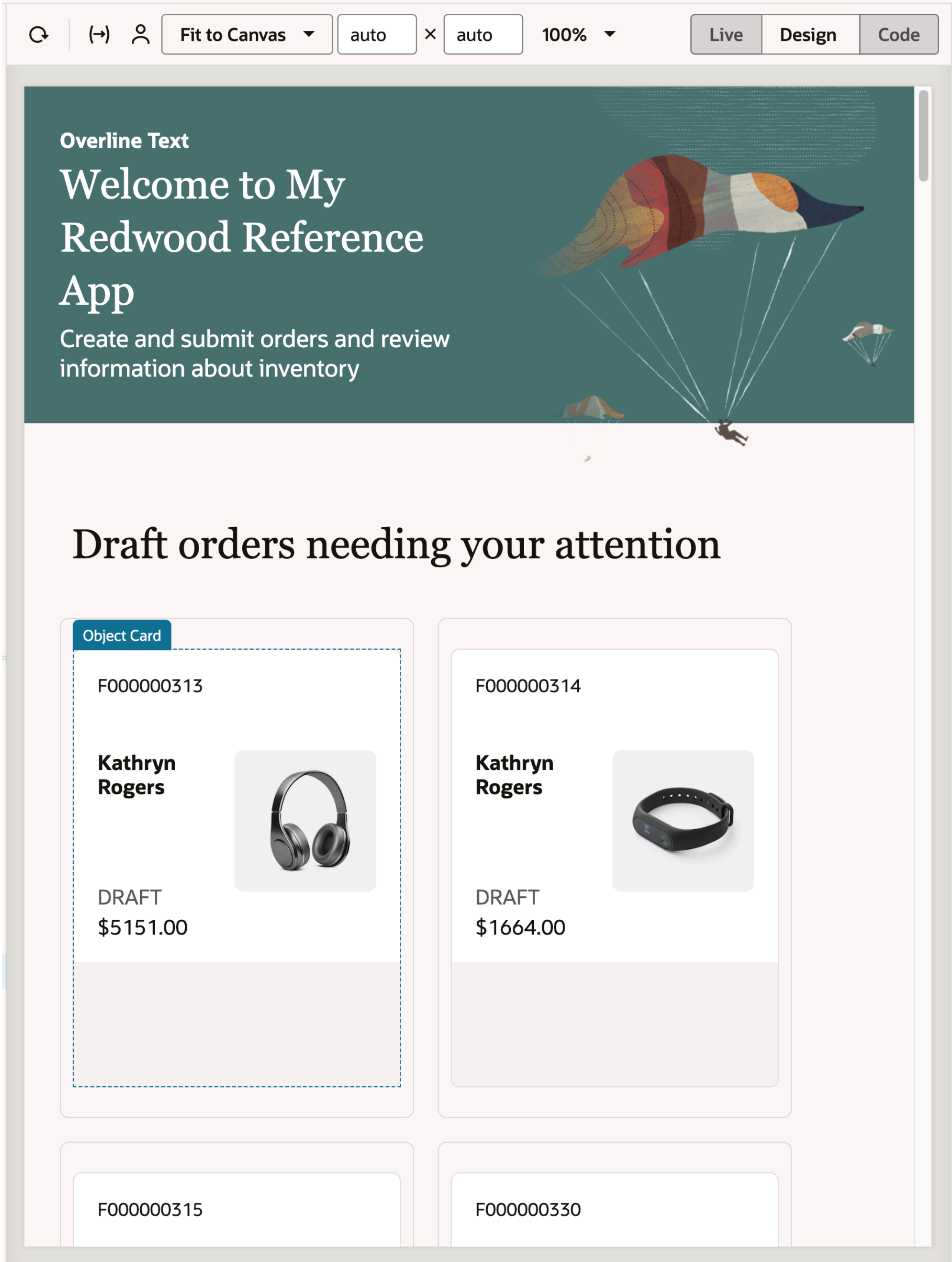

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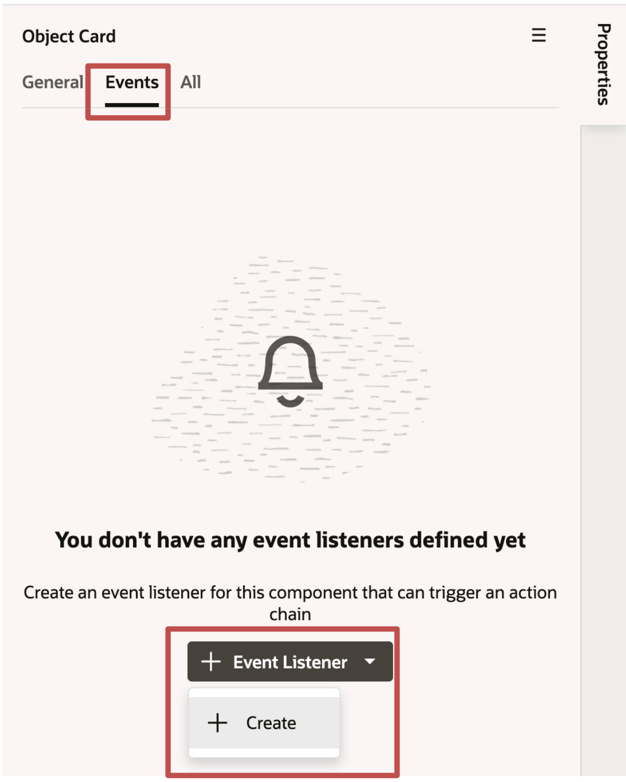
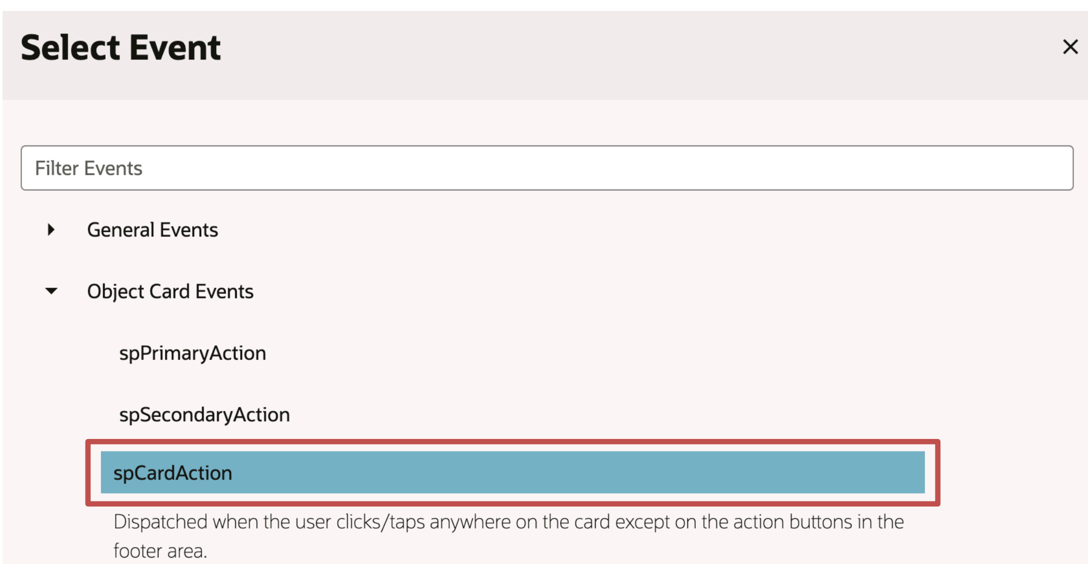
44. Close the Component tab.

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**.



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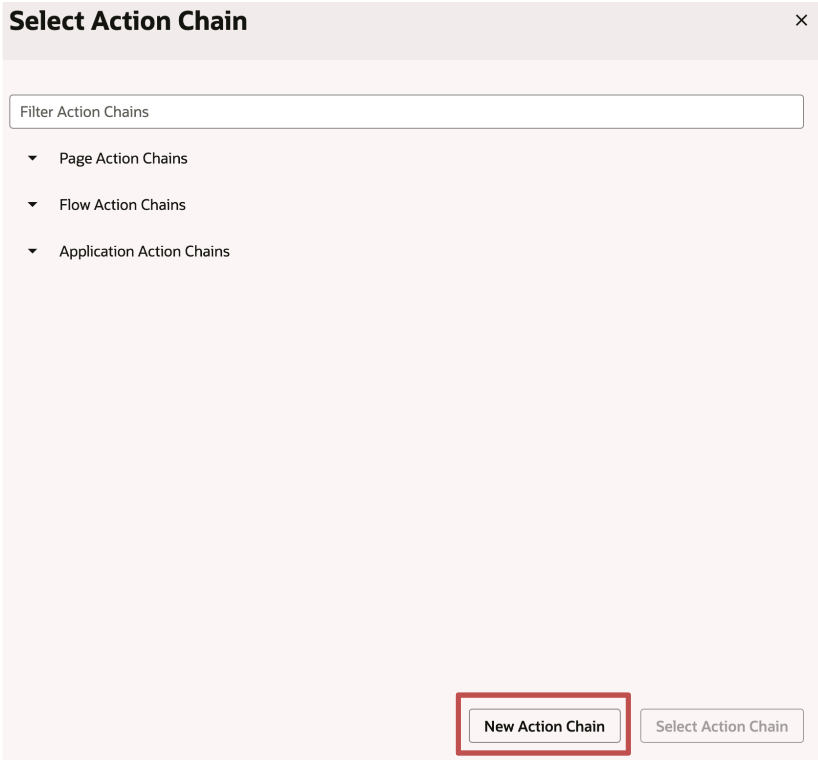
47. Select **New Action Chain**. The new action chain appears.



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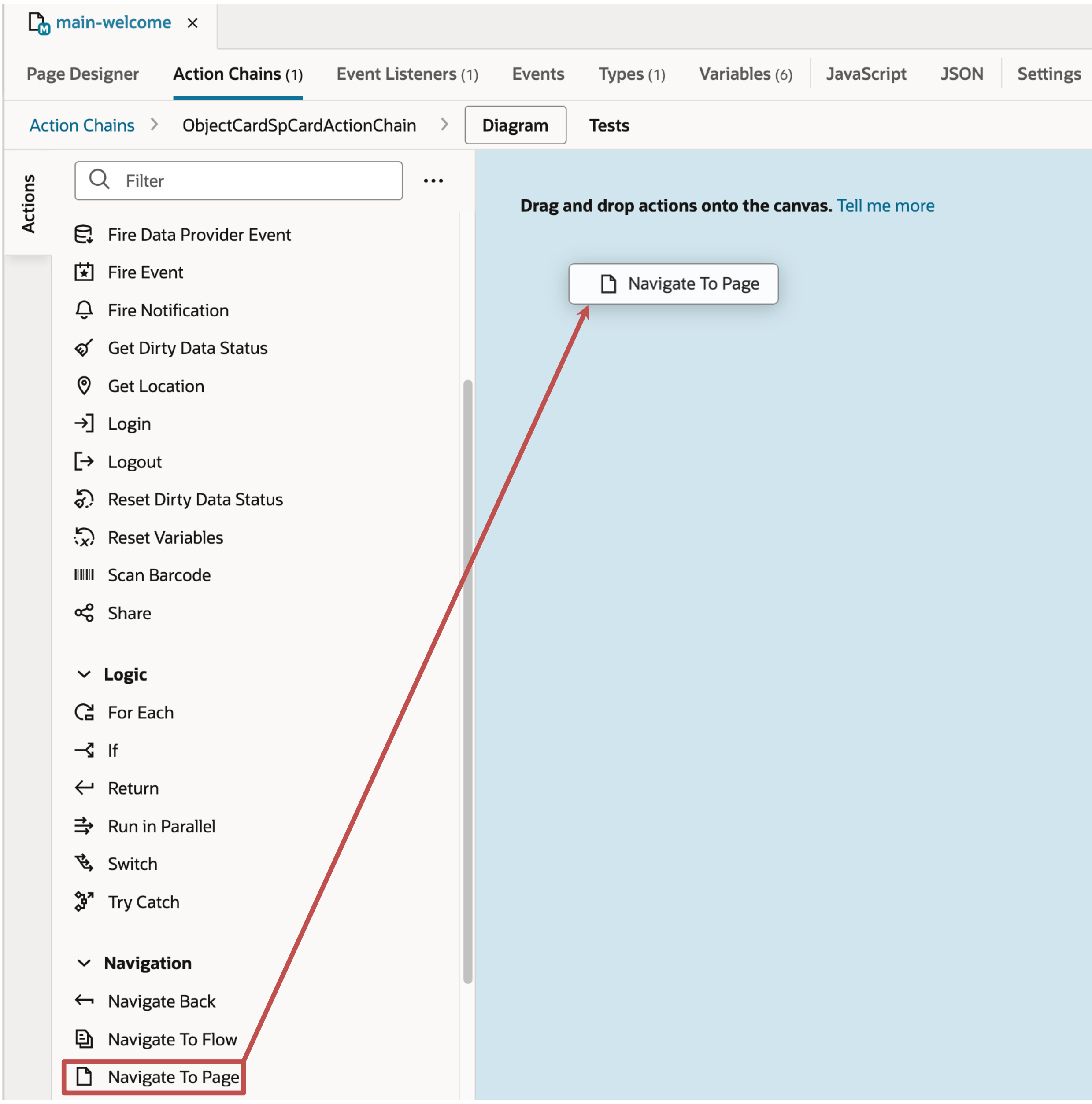
48. Drag a **Navigate To Page** action to the canvas.



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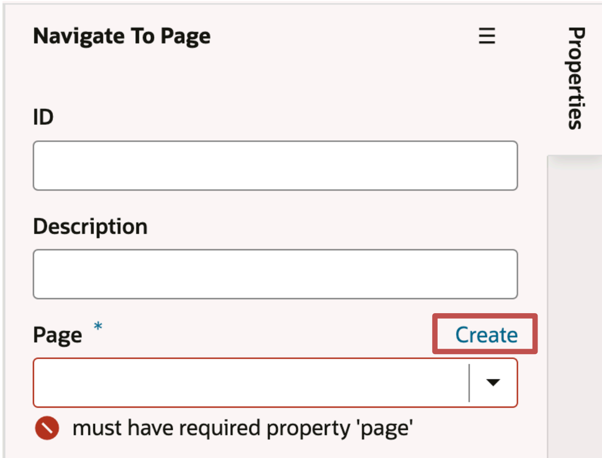
49. With the new action selected, click the **Create** link in the **Navigate To Page Property** pane.



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

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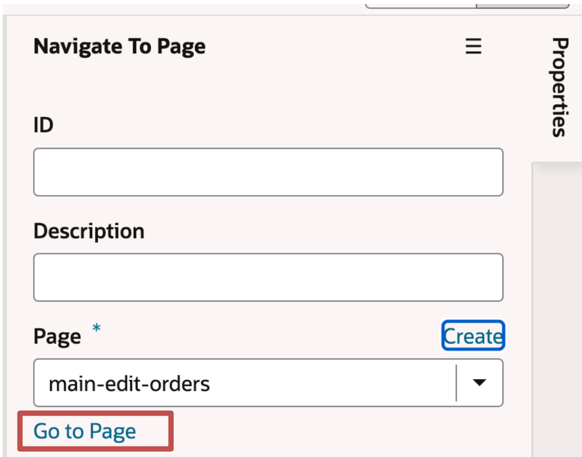
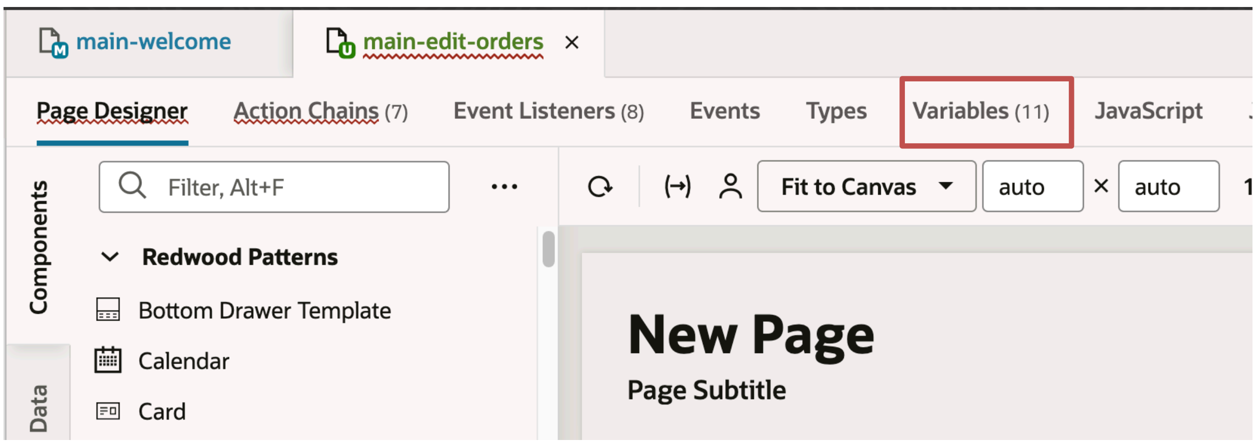
51. Click the **Go to Page** link.



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.



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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.

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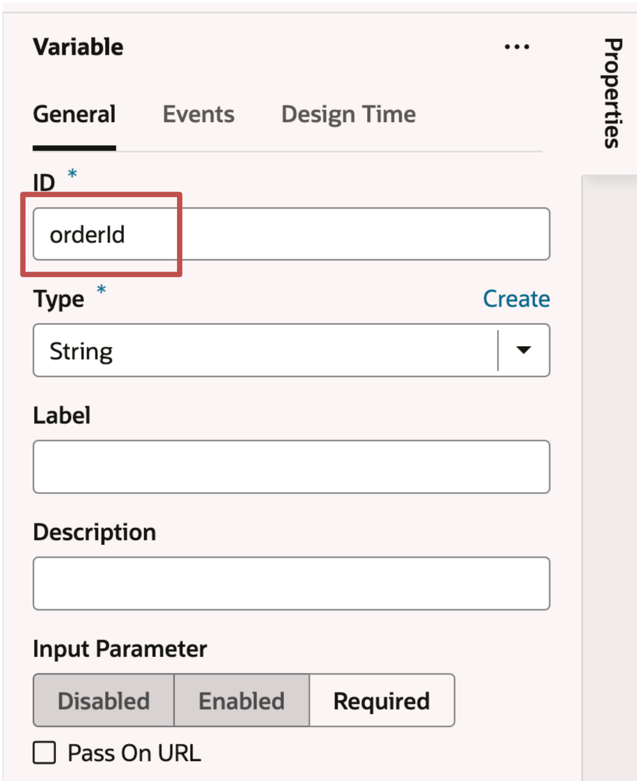
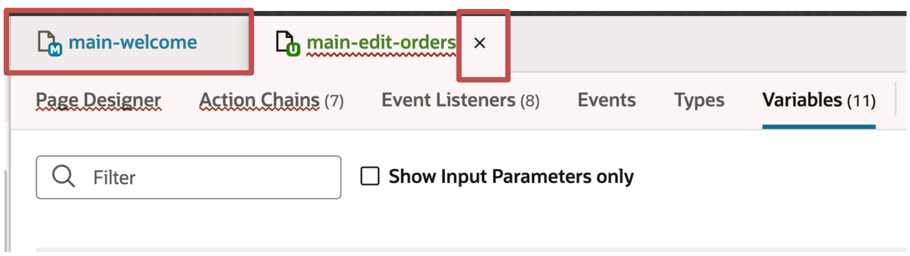
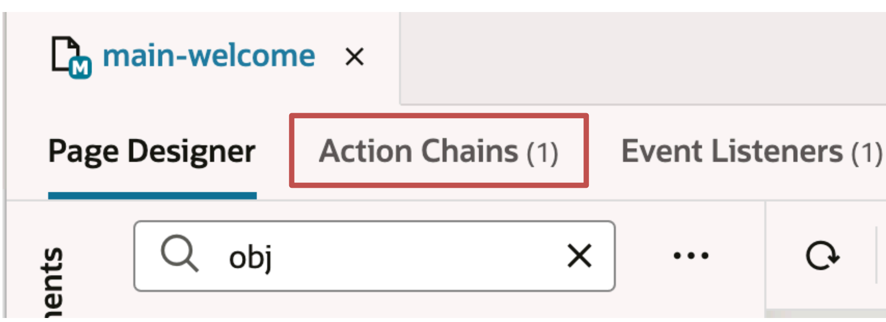


54. Close the **main-edit-orders** tab to return to the **main-welcome** page.



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



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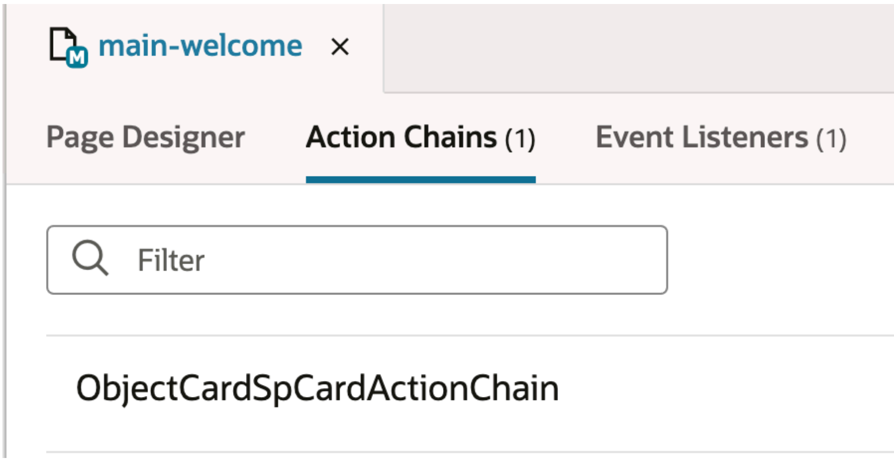
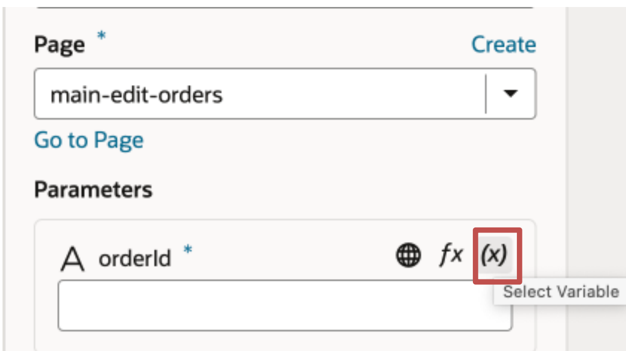
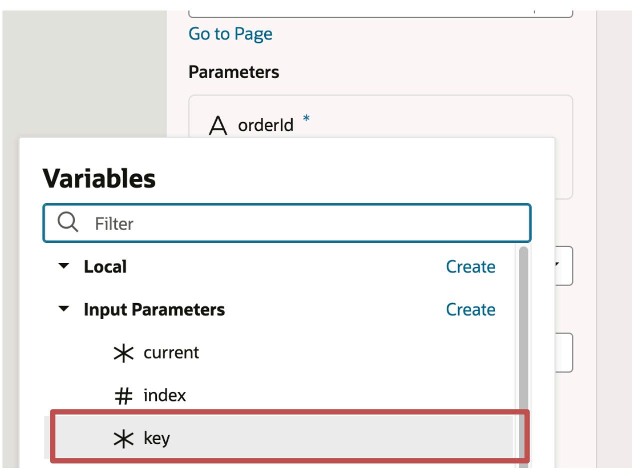
56. Click the **ObjectCardSpCardActionChain** to open the action chain.



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





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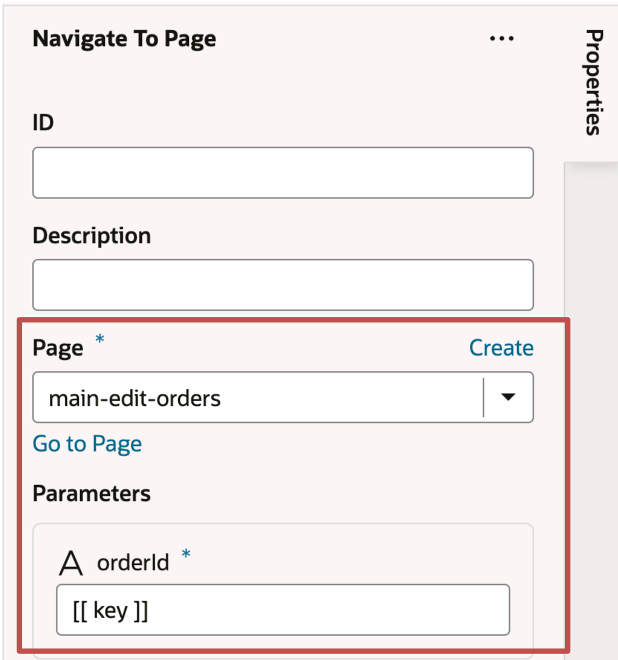

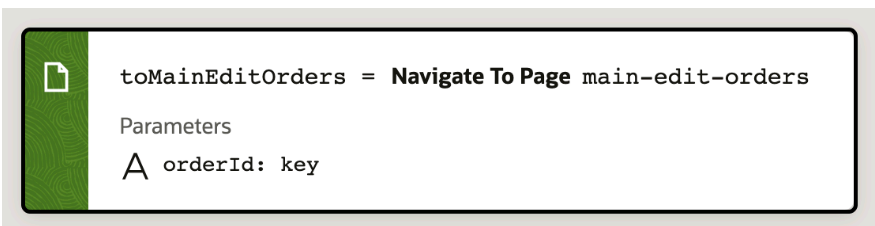

58. Click the **Page Designer** tab and click the **Live** button. Test the navigation works by selecting one of the orders. The app navigates to the new main-edit-orders page. You will complete the development of the edit page in a later practice.
59. Close all open tabs.

This completes this practice.

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