

Practice 3-3: Create the View Customers Page

Overview

In this practice, you create the page to view customer details. You display summary information for the customer as well as a list of orders for that customer.

The screenshot shows a customer profile for "Rogers". On the left, there's a sidebar with a back arrow labeled "Parent page". The main area displays customer details: FirstName "Kathryn", LastName "Rogers", Phone "6505,060,019", EmailAddress "krogers@internalmail.com", ShippingAddressCity "Vision City", and ShippingPostalCode "95,727". To the right, a list of orders is shown in a table format:

Status	Order ID	Date	Total Amount
DRAFT	F000000313	8/7/2022	\$5,151.00
DRAFT	F000000314	8/11/2022	\$1,664.00
DRAFT	F000000315	8/21/2022	\$4,481.00
PROCESSING	F000000300	6/2/2022	\$5,311.00
PROCESSING	F000000301	6/5/2022	\$3,786.00
PROCESSING	F000000303	6/16/2022	\$4,335.00
PROCESSING	F000000304	6/19/2022	\$7,494.00

Assumptions

You have successfully completed Practice 3-1.

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, and Environments. The 'Workspaces' icon is selected. On the right, the main area has a title bar '≡ Visual Builder Studio' and a section titled 'Organization'. Below it is a navigation bar with tabs: Projects (selected), OCI Account, Build Executor Templates, Build Executors, Component Exchange, and a 'Get Started' button. There is also a search bar and filter buttons for Member, Favorites, Owner, Shared, and All. The main content area shows 'Projects: 3' and a table:

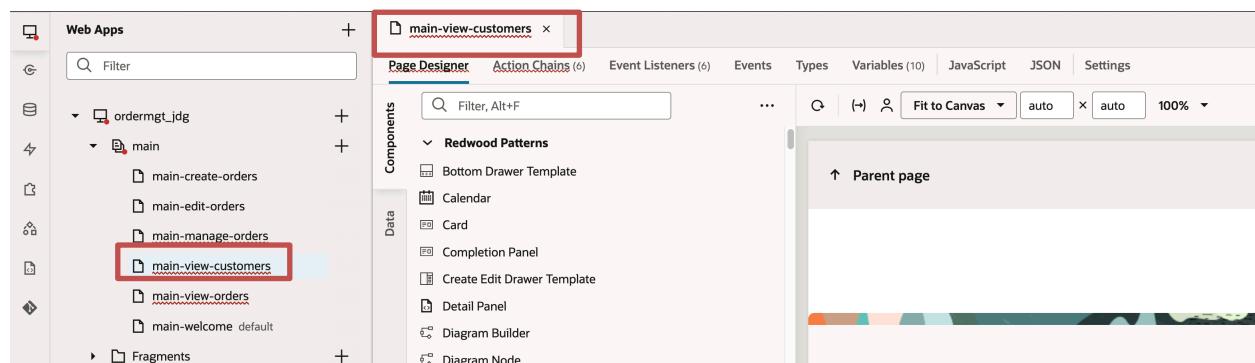
	Name	Template	Favorite	Status
<input type="checkbox"/>	OrderMgt_JDG <small>Current</small>	ordermgt_jdg.git		Active
<input type="checkbox"/>	Order Management Applic...			

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

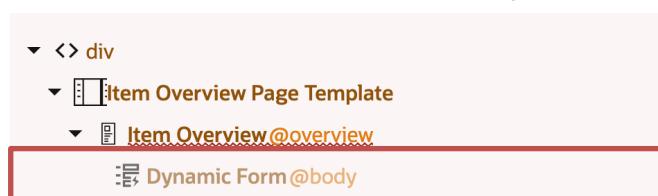
The screenshot shows the Visual Builder Studio interface with 'OrderMgt_JDG' selected in the sidebar. The main area shows the workspace details: 'OrderMgt_JDG' (Visual Application) under 'ordermgt_jdg.git' (Repository) and 'Order_Mgt' (Current Branch). A context menu is open over the workspace name, listing options: Open in New Tab (highlighted with a red box), Rename, Export Visual Application, Switch Environment, Change Ownership, and Delete.

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

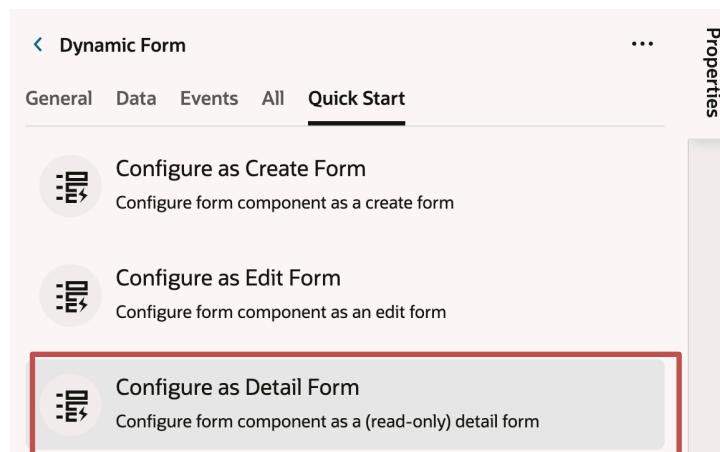
4. Select the **Web Apps** tab in the Navigator. Expand **ordermgt_<your initials>**. Expand **main**. Select the **main-view-customers** page. It opens in Page Designer.



5. Look at the **Structure** pane. Notice this page template is preconfigured to use a dynamic form for the overview area. Click the **Dynamic Form@body** element.



6. In its Property pane, click the **Quick Start** tab. Quick Starts are, as the name suggests, a quick way to get started building the form. Click **Configure as Detail Form**.



7. Select **rraCustomers** and click **Next**.



8. Enter a **Label** of `view_customer` and click **Select fields to display**.

A screenshot of a configuration screen. It has two main input fields: "Label *" containing "view_customer" and "ID *" containing "viewCustomer". Below these is a "Description" field with an empty text area. At the bottom left is a section titled "Use Simple Layout" with a button labeled "Select fields to display >". The "Label" field is highlighted with a red box.

9. Deselect all the fields except **firstName**, **lastName**, **phone**, **emailAddress**, **shippingAddressCity**, and **shippingPostalCode**.

The screenshot shows a user interface for selecting fields. On the left, a vertical list of fields is displayed with checkboxes. On the right, a panel titled "Select fields to display" lists the chosen fields.

Fields Panel:

- A lastUpdatedDate
- A lastUpdatedBy
- # objectVersionNumber
- # objectVersionNumber1
- # objectVersionNumber2
- # phone
- # primaryBillingAddressId
- # primaryShippingAddressId
- A shippingAddressCity
- A shippingAddressCountry
- A shippingAddressLine1
- A shippingAddressLine2
- A shippingAddressState

Select fields to display [Use template instead ↤](#)

- A firstName
- A lastName
- # phone
- A emailAddress
- A shippingAddressCity
- Field** # shippingPostalCode

10. As needed, drag the fields into the following order, using the icon to drag fields into position. Note that a blue line indicates where the field will be positioned.

Select fields to display [Use template instead ↗](#)

Field

- ... A lastName
- ... A firstName
- ... A lastName
- ... # phone
- ... A emailAddress
- ... A shippingAddressCity
- ... # shippingPostalCode

11. When done, it should look like this:

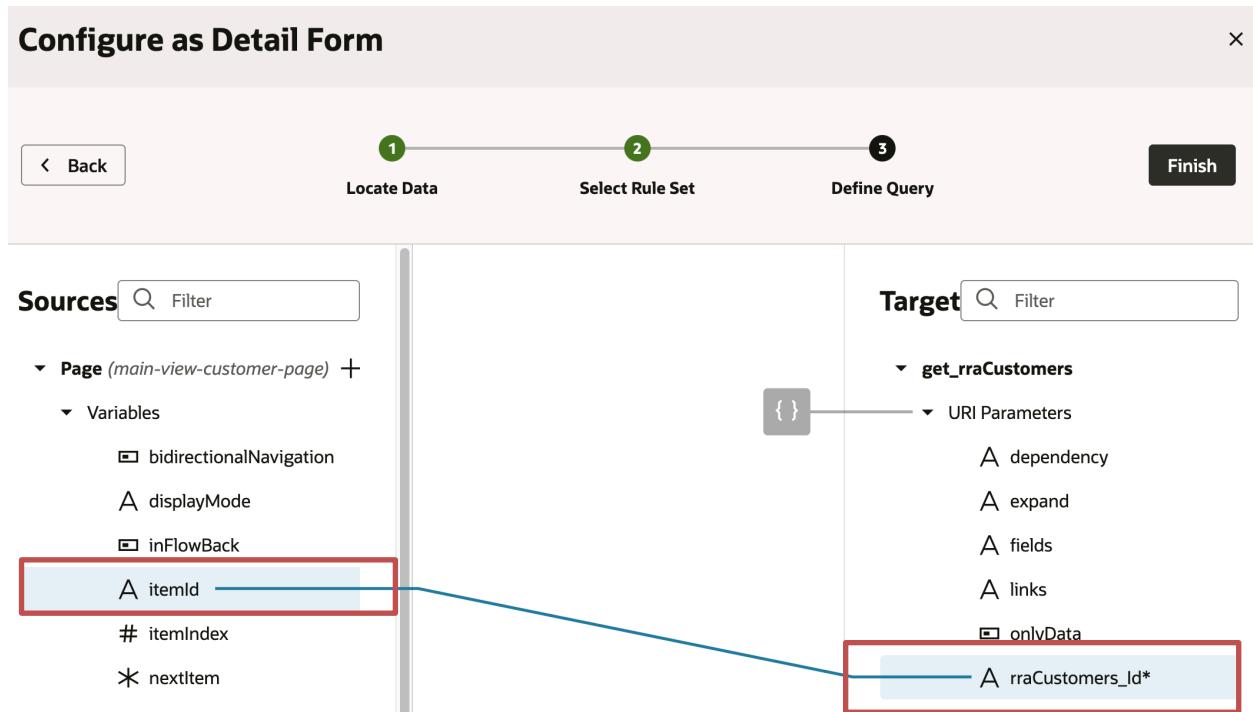
Select fields to display [Use template instead ↗](#)

Field

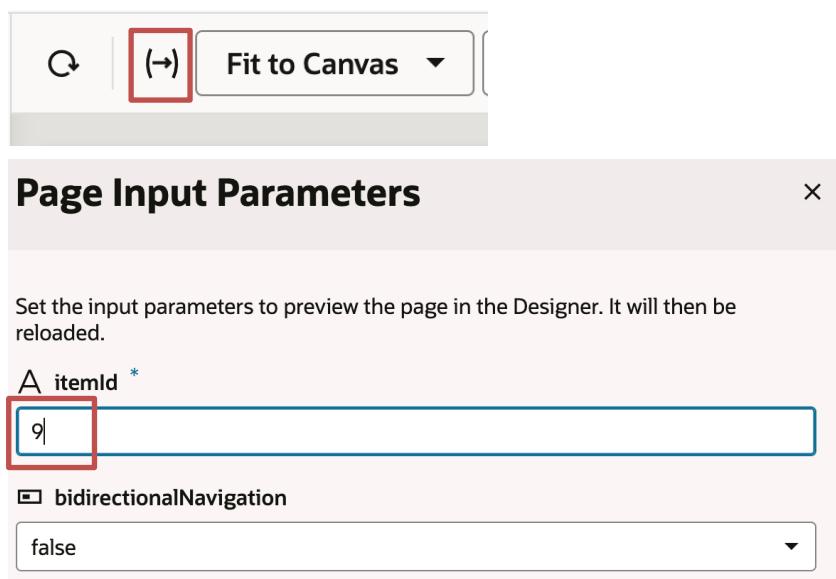
- ... A firstName
- ... A lastName
- ... # phone
- ... A emailAddress
- ... A shippingAddressCity
- ... # shippingPostalCode

12. Click **Next**.

13. Drag **itemId** onto **get_rraCustomers > rraCustomers_Id**. Click **Finish**.



14. You are returned to Page Designer. Click the **Page Input Parameters** button to confirm that there is a value for **itemId**. If there is not, enter 9.



15. Select **Item Overview** in the **Structure** pane and paste this code into its **All > Title** property.

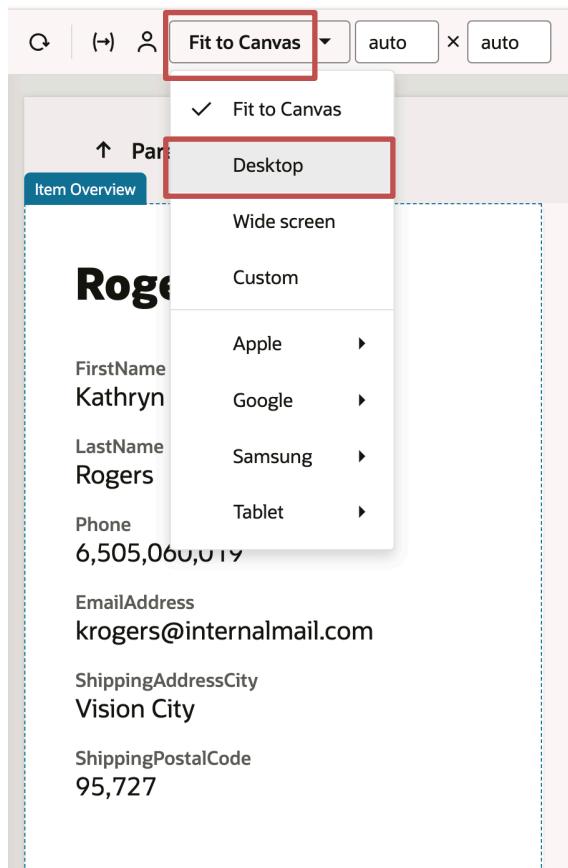
```
[[ $variables.rraCustomers.lastName ]]
```



16. If you don't see any data displayed, close the Navigator pane. If you still don't see data, change the screen size to **Desktop**.

The screenshot shows the Oracle ADF Page Designer interface. At the top, the title bar says "main-view-customers". Below it, the "Page Designer" tab is selected. The left sidebar contains a "Components" tree view, which is expanded to show "Redwood Patterns" and several "Data" components like "Card", "Completion Panel", and "Horizontal Overview". The main workspace shows a "Parent page" with an "Item Overview" component. The "Item Overview" component displays the following data:

Property	Value
FirstName	Kathryn
LastName	Rogers
Phone	6,505,060,019
EmailAddress	krogers@internalmail.com
ShippingAddressCity	Vision City
ShippingPostalCode	95,727

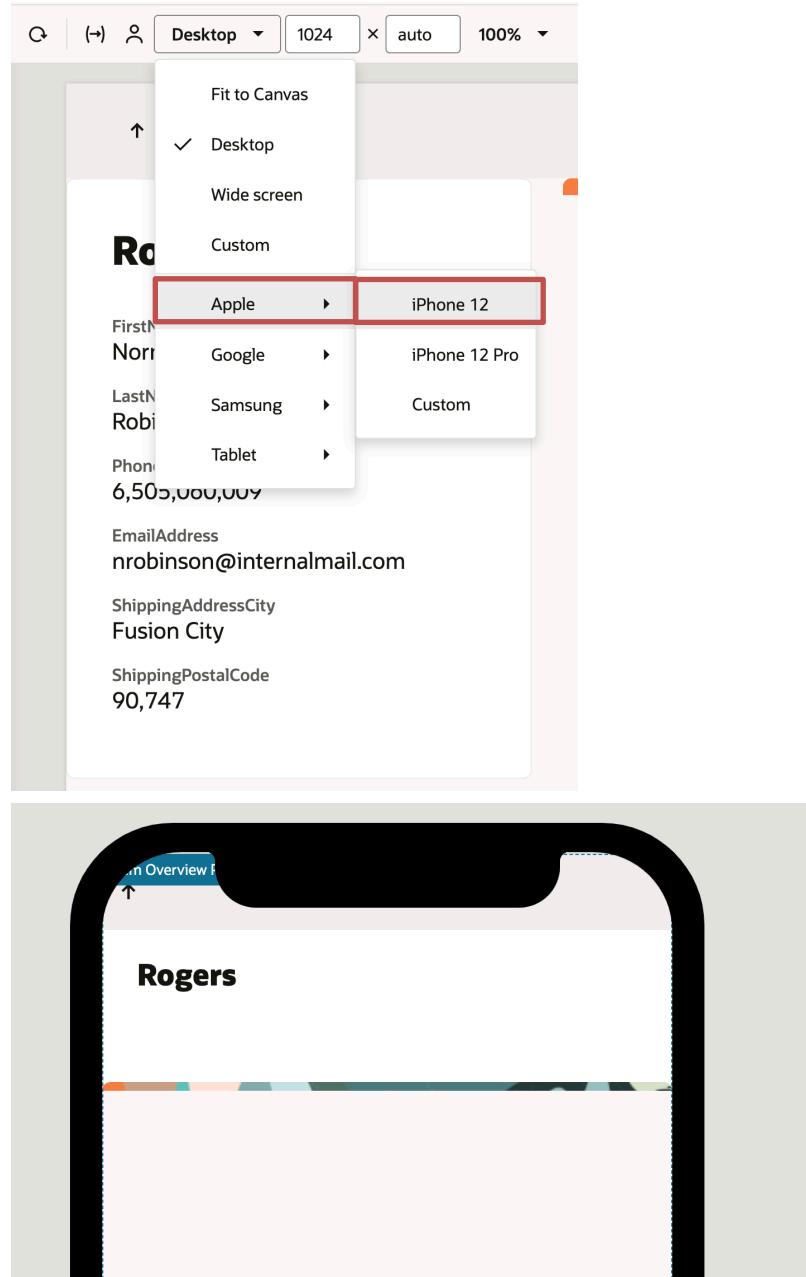


The screenshot shows the Oracle ADF Item Overview Page Template. The title bar says 'Item Overview Page Template'. Below it, there is a toolbar with icons for search, refresh, user, and a dropdown menu set to 'Desktop'. The main content area displays the contact details:

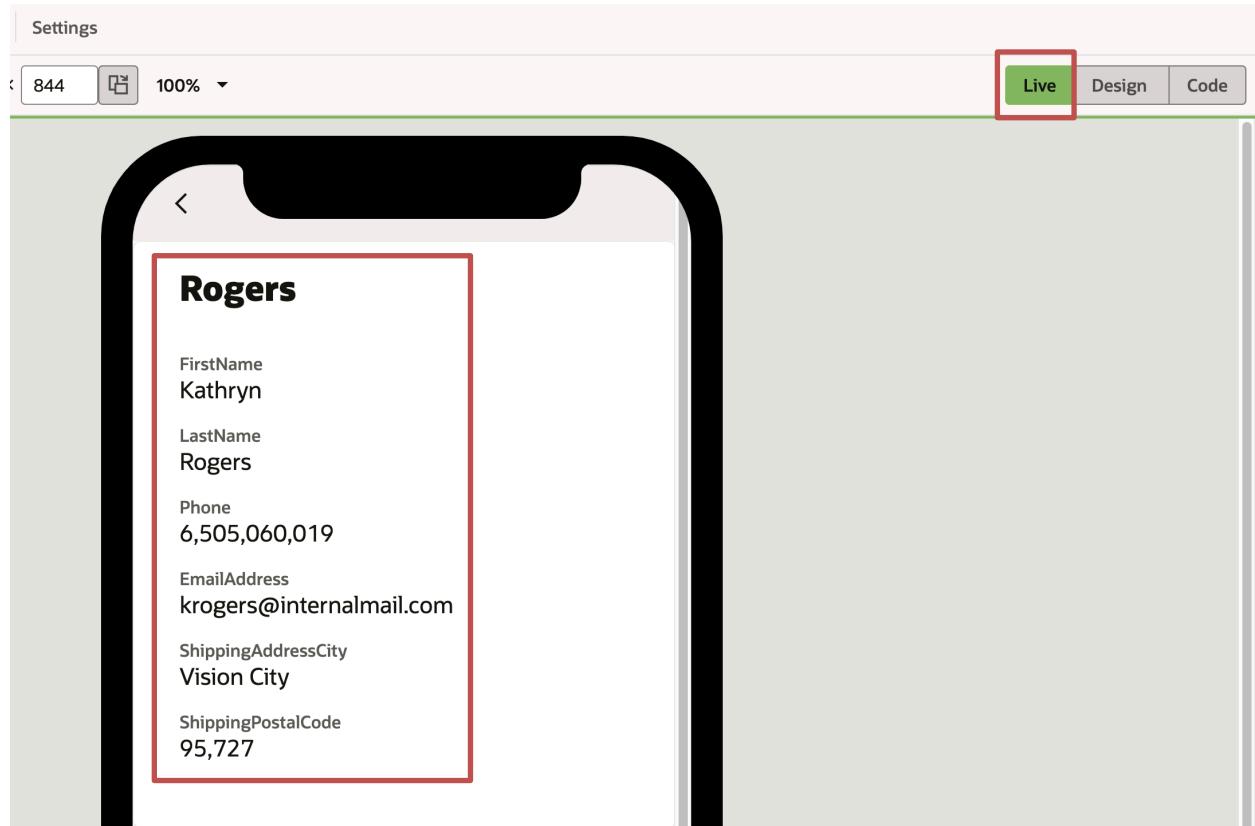
Rogers

- FirstName: Kathryn
- LastName: Rogers
- Phone: 6,505,060,019
- EmailAddress: krogers@internalmail.com
- ShippingAddressCity: Vision City
- ShippingPostalCode: 95,727

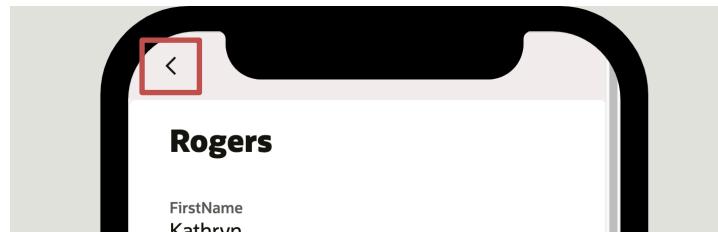
17. The page is sensitive to screen size. Change the screen size to **Apple iPhone 12**.



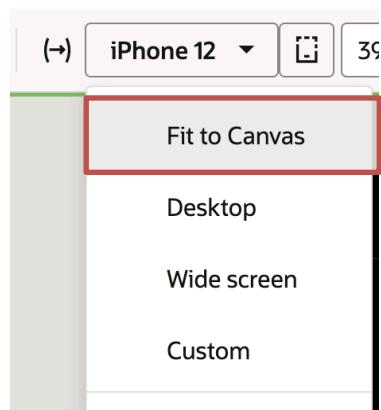
18. Enter **Live** mode and click the **customer's name**.



19. Click the < to collapse the contents again.



20. Change the screen size back to **Fit to Canvas**.



21. Return to Design mode when you are done testing.

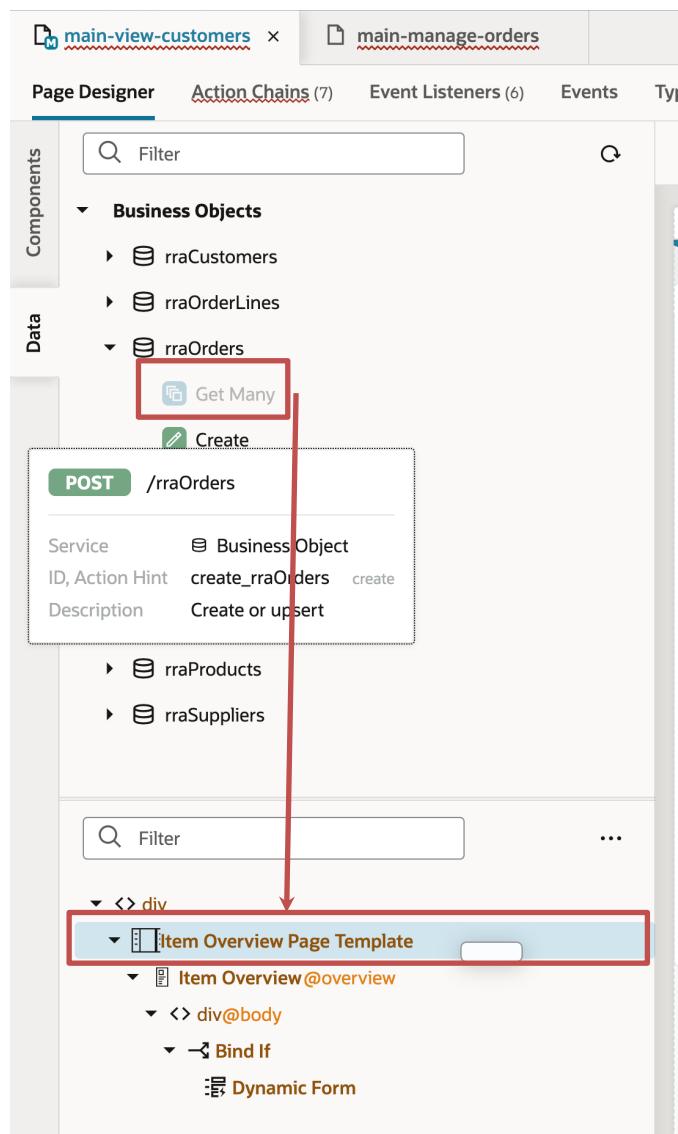
Note: You will notice both the phone number and postal code are not correctly formatted.

Since this a dynamic form, you would have to create templates for their formatting.

While this is not difficult, it is outside the scope of this course, as it has nothing to do with the configuration you are doing with Redwood. Dynamic components are covered in the Build Visual Applications Using Visual Builder Studio and Develop Fusion Apps Using Visual Builder Studio courses.

Configure the main area of the Item Overview page with order data for this customer.

22. Click the **Data** tab and expand **Business Objects > rraOrders** and drag **Get Many** onto the **Item Overview Page Template** element. Select **main slot** when prompted. Then choose to **Render as List**, not Dynamic, when prompted.



23. Click **Next** to accept the **List Item Template**. Select the following fields in order and click **Next**.

- orderNumber
- orderDate
- orderStatus
- totalAmount – set it to Currency

Item Template Fields

You can put multiple fields into a single spot. You can leave any of the spots empty - the template will adapt.

The diagram illustrates the layout of Item Template Fields. At the top, there is a horizontal bar with seven slots labeled from left to right: **Leading Slot**, **Overline slot**, **Default slot**, **Secondary slot**, **Metadata slot**, **Trailing Slot**, and **Action Slot**. Below this bar, the fields are arranged vertically:

- Leading slot**: Contains the value "A orderNumber X". The type is set to **Text**.
- Overline slot**: Contains the value "A orderDate X". The type is set to **Text**.
- Default slot**: Contains the value "A orderStatus X". The type is set to **Text**.
- Secondary slot**: Contains the value "# totalAmount X". The type is set to **Currency**. This field is highlighted with a red border.

24. You need to filter the list of orders to return only those for this customer. Click the **filterCriterion** and set up the filter in the Builder section. Click the **Click to add condition** link.

Target

▼ **getall_rraOrders**

► { } uriParameters

► { } filterCriterion

{ } filterCriterion

Builder

Code

Include items Match All Match Any

Click to add condition

25. Choose **customerId** for the first attribute, select **contains (\$co)**, and then select **\$variables.itemId** for the second attribute. Click **Done** and **Finish**.

Include items Match All Match Any

IF

customerId

contains (\$co)

\$variables.itemId

{ } filterCriterion

Builder

Code

Include items Match All Match Any

IF

customerId contains \$variables.itemId

The list of orders for the customer displays.

A screenshot of a web application interface. At the top, there is a header bar with the word "VISION". Below the header, on the left, is a sidebar containing customer information: First Name (Norma), Last Name (Robinson), Phone (6505060009), Email (nrobinson@internalmail.com), Shipping City (Fusion City), and Shipping Postal Code (90747). On the right, there is a "List View" section with a red border. It shows a table with five rows of order data:

		Date	Status	Order ID
	F000000146	2022-08-13T15:43:33+00:00	DRAFT	6895
	F000000147	2022-08-17T15:43:33+00:00	DRAFT	8006
	F000000148	2022-08-20T15:43:33+00:00	DRAFT	1953
	F000000299	2022-05-29T15:43:33+00:00	PROCESSING	1019

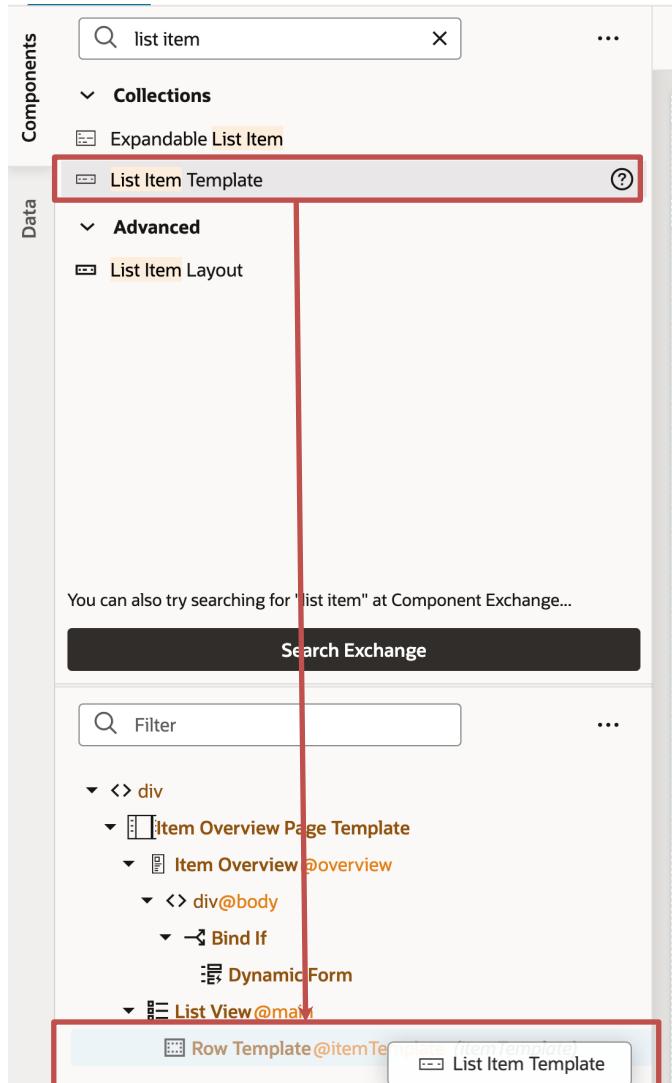
26. Try to format this section a little better. Delete the List Item Layout.

A screenshot of the Oracle Dynamic Forms editor. On the left, there is a tree view of the form structure:

- Dynamic Form
- List View @main
 - Row Template @itemT
 - List Item Layout

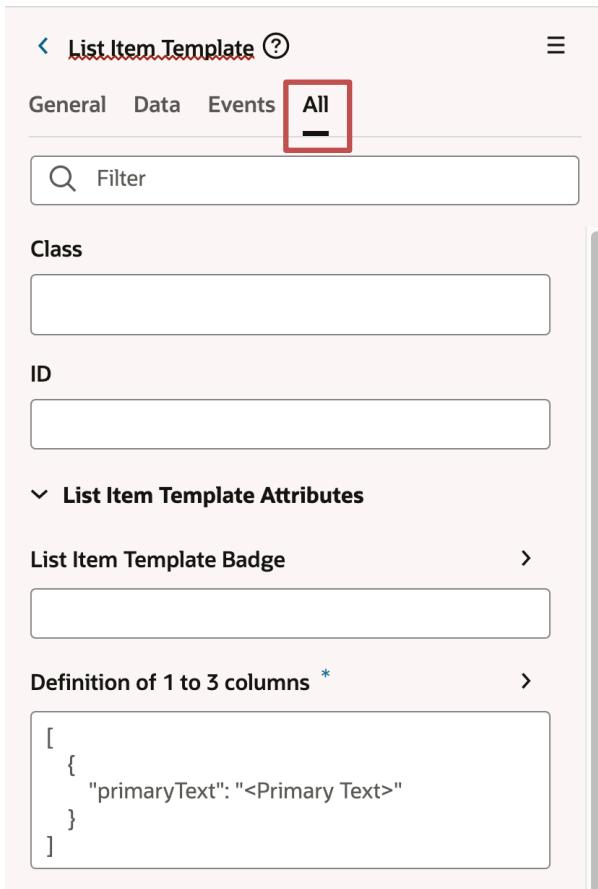
The "List Item Layout" node is highlighted with a red box. To its right, there is a toolbar with a "Delete" button, which is also highlighted with a red box. Below the toolbar, there are three items listed under "List Item Layout":
<div @leading (Bind Text)
<div @overline (Bind Text)
<div (Bind Text)

27. Drag a **List Item Template** onto the **Row Template**.



28. Click the **All** tab in the new **List Item Template**'s Property pane.





29. Paste the following code into the **Definition of 1 to 3 columns** property. This code is in the code text file.

```
[[ [{"primaryText":$current.data.orderNumber,"secondaryText":$flow.functions.formatDate($current.data.orderDate),"overlineText":$current.data.orderStatus === 'DRAFT' ? 'New Order' : 'Order'}, {"overlineText":"Total Amount","primaryText":$flow.functions.formatCurrency($flow.constants.defaultCurrencyCode, $current.data.totalAmount ? $current.data.totalAmount : 0)}]]
```

The screenshot shows the 'List Item Template' configuration screen. At the top, there are tabs: General, Data, Events, All (which is selected), and Properties. A search bar labeled 'Filter' is present. Below the tabs, there are fields for 'Class' and 'ID'. Under the 'List Item Template Attributes' section, there are two expandable items: 'List Item Template Badge' and 'Definition of 1 to 3 columns *'. The 'Definition of 1 to 3 columns' field contains the following JSON code, which is highlighted with a red border:

```
[[{"primaryText":$current.data.orderNumber,"secondaryText":$flow.functions.formatDate($current.data.orderDate),"overlineText":$current.data.orderStatus === 'DRAFT' ? 'New Order' : 'Order'}, {"overlineText":"Total Amount","primaryText":$flow.functions.formatCurrency($flow.constants.defaultCurrencyCode, $current.data.totalAmount ? $current.data.totalAmount : 0))}]]
```

The orders section is formatted, and column headers are added to display based on order status.

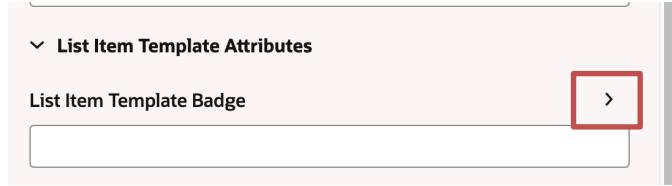
[Parent page](#)

Rogers

FirstName	Kathryn		
LastName	Rogers		
Phone	6,505,060,019		
EmailAddress	krogers@internalmail.com		
ShippingAddressCity	Vision City		
ShippingPostalCode	95,727		
List View			
List Item Template			
New Order	F000000313	Total Amount	\$5,151.00
	8/7/2022		
New Order	F000000314	Total Amount	\$1,664.00
	8/11/2022		
New Order	F000000315	Total Amount	\$4,481.00
	8/21/2022		
Order	F000000300	Total Amount	\$5,311.00
	6/2/2022		
Order	F000000301	Total Amount	\$3,786.00
	6/5/2022		
Order	F000000303	Total Amount	\$4,335.00
	6/16/2022		
Order	F000000304	Total Amount	\$7,494.00
	6/19/2022		

Note: You may wish to inspect the code to see how this was done. Note the use of the JavaScript ternary expression to set up the column header text and the use of JavaScript functions to format the date and order total.

30. Click the **Show sub-properties >** icon for the **List Item Template Badge**.



31. Enter `[[$current.data.orderStatus]]` for the **Badge Text** property and `[[$current.data.orderStatus === 'DRAFT' ? 'warning' : 'info']]` for the **Badge Status**. Select **Leading** for the **Badge Position**.

32. The page is complete. Test it in Live mode. Open the main-manage-orders page and click the ... button to View Customer. The page should navigate to the main-view-customers page and display the correct customer and order information. **Hint:** Remember to hide the Web Apps tab or change the screen size to **Desktop** to make sure the summary information appears.

Set up the Orders List View to navigate to the main-view-orders page when an order is selected.

33. On the **main-view-customers** page, make sure the Page Designer is the active tab.

34. Select the **List View** for the Orders. Add an **On 'First Selected Item'** event listener.

The screenshot shows two panels. The top panel is a tree view of page components:

- <> div
- Item Overview Page Template
 - Item Overview@overview
 - <> div@body
 - Bind If
 - Dynamic Form
 - List View@main
 - Row Template@itemTemplate (itemTemplate)
 - List Item Template

35. In the action chain, add a **Navigate to Page** action to navigate to the **main-view-orders** page.

The screenshot shows the "Action Chain" configuration:

- Page * main-view-orders
- Create
- Go to Page

36. Bind the ***rowKey** to the **selectedOrderId**.

The screenshot shows the Oracle ADF Page Designer interface. At the top, there is a 'Parameters' panel with a single parameter: 'selectedOrderId *'. Below it is a 'Variables' panel. The 'Variables' panel has a 'Filter' input field. It contains several sections: 'Local' (with a 'Create' button), 'Input Parameters' (with a 'Create' button), 'rowData' (marked with a red asterisk), 'rowKey' (which is highlighted with a red rectangle), 'Page' (with a 'Variables' section containing 'bidirectionalNavigation', 'displayMode', 'inFlowBack', and 'itemId', each with an 'Edit' button), and a 'Page' section with a 'Create' button.

Below the variables panel is a code editor window with the following content:

```
toMainViewOrders = Navigate To Page main-view-orders
Parameters
A selectedOrderId: rowKey
```

37. Return to the Page Designer and test that this works in **Live** mode by selecting a row for an order. The page should navigate to the main-view-orders page and display the details of the selected order.
38. Close all open tabs.

This completes this practice.