

Practices for Lesson 5:
Create Manage Inventory
Page and View Product
Details

Overview

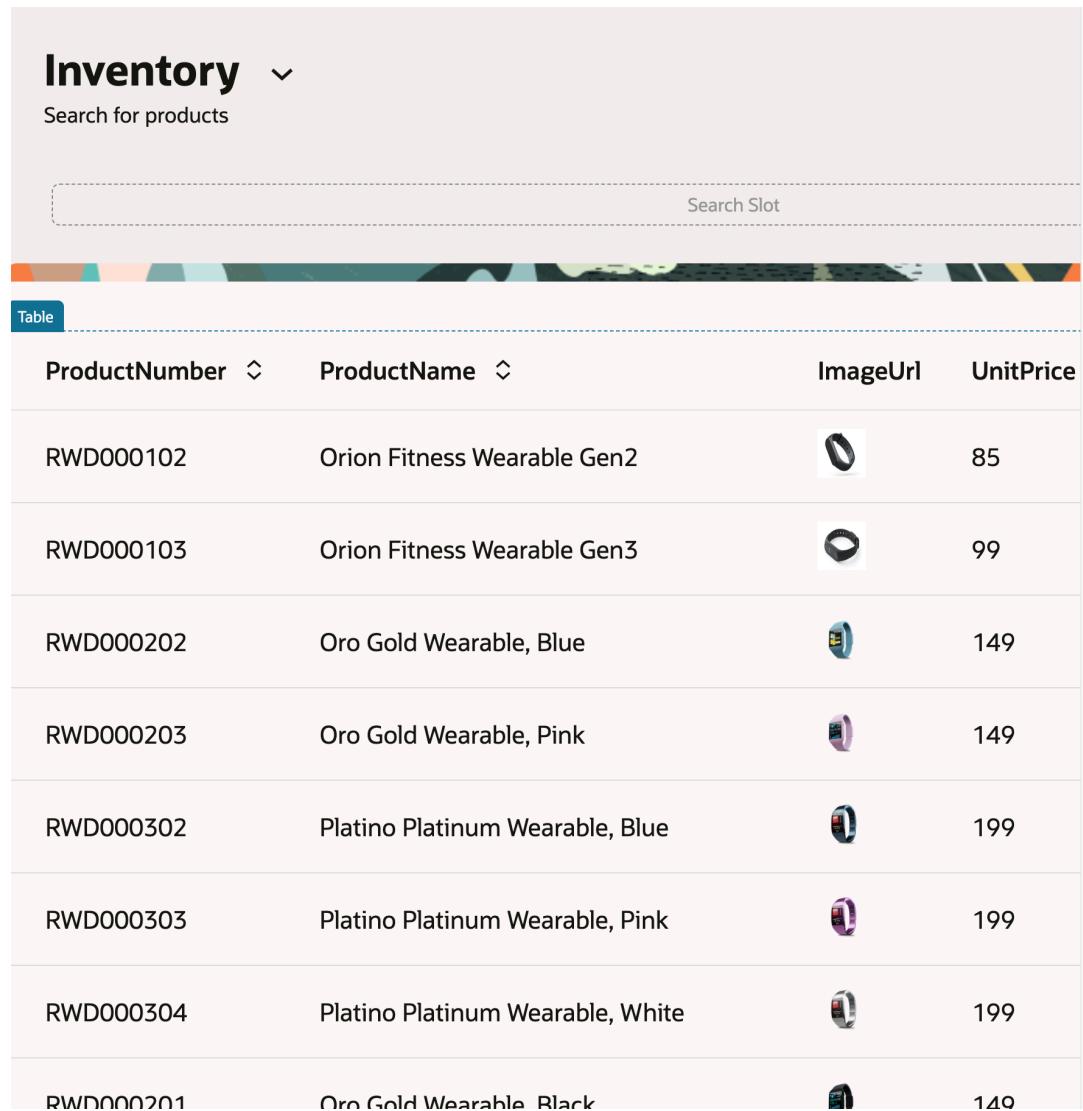
In these practices, you will:

- Create a page to manage the inventory of products as a table
- Create a page to view the details for a specific product and its supplier by using the fold-out page template

Practice 5-1: Create the Manage Inventory Page

Overview

In this practice, you create the Manage Inventory page that uses a table to list products.



The screenshot shows a user interface for managing inventory. At the top left is a large button labeled "Inventory" with a dropdown arrow. Below it is a search bar with placeholder text "Search for products". A horizontal bar with various colored segments follows. A "Table" button is highlighted in blue at the top of a table. The table has four columns: "ProductNumber", "ProductName", "ImageUrl", and "UnitPrice". The data rows are as follows:

| ProductNumber | ProductName | ImageUrl | UnitPrice |
|---------------|----------------------------------|---|-----------|
| RWD000102 | Orion Fitness Wearable Gen2 |  | 85 |
| RWD000103 | Orion Fitness Wearable Gen3 |  | 99 |
| RWD000202 | Oro Gold Wearable, Blue |  | 149 |
| RWD000203 | Oro Gold Wearable, Pink |  | 149 |
| RWD000302 | Platino Platinum Wearable, Blue |  | 199 |
| RWD000303 | Platino Platinum Wearable, Pink |  | 199 |
| RWD000304 | Platino Platinum Wearable, White |  | 199 |
| RWD000201 | Oro Gold Wearable, Black |  | 149 |

Assumptions

You have successfully completed Practice 2-1.

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 dark 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. A search bar and filter buttons for Member, Favorites, Owner, Shared, and All are at the top. Below is a table titled "Projects: 3". The first row shows "OrderMgt_JDG" as the current workspace, with a red box highlighting it. The second row shows "Order Management App..." with status "Active".

| Name | Template | Favorite | Status |
|--|------------------|----------|--------|
| OrderMgt_JDG Current | ordermgt_jdg.git | ★ | Active |
| Order Management App... | | | |

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 workspace dropdown. The main area is titled "Visual Builder Studio" and "OrderMgt_JDG | Workspaces". A context menu is open over the "OrderMgt_JDG" workspace entry, 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.

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**. Click the **Create Page +** for the **main** flow to create a new page named **main-manage-inventory**. Use the **Smart Search Page Template**.

The screenshot shows the Oracle APEX Navigator on the left and the 'Create Page' interface on the right.

Navigator:

- expand icon → **ordermgt_jdg**
 - expand icon → **main**
 - main-create-orders** (greyed out)
 - main-edit-orders** (greyed out)
 - main-manage-orders** (blue)

Create Page Interface:

- Page ID ***: **main-manage-inventory** (highlighted with a red box)
- Choose Page Content** (button)
- Filter** (text input)
- Create an Empty Page** (button with plus icon)
- Dashboard Landing Page Template** (button with grid icon)

Summarize business performance and status, including KPIs and visualizations drawn from different sources.
- Guided Process Page Template** (button with process icon)

Simplify a complex process by dividing it into sequential steps.
- Smart Search Page Template** (button with search and list icon)

Use keywords and filters to find a list of items to work through.

5. Select the **Smart Search Page Template** and change its **Page Title** to **Inventory** and **Page Subtitle** to **Search for products**.

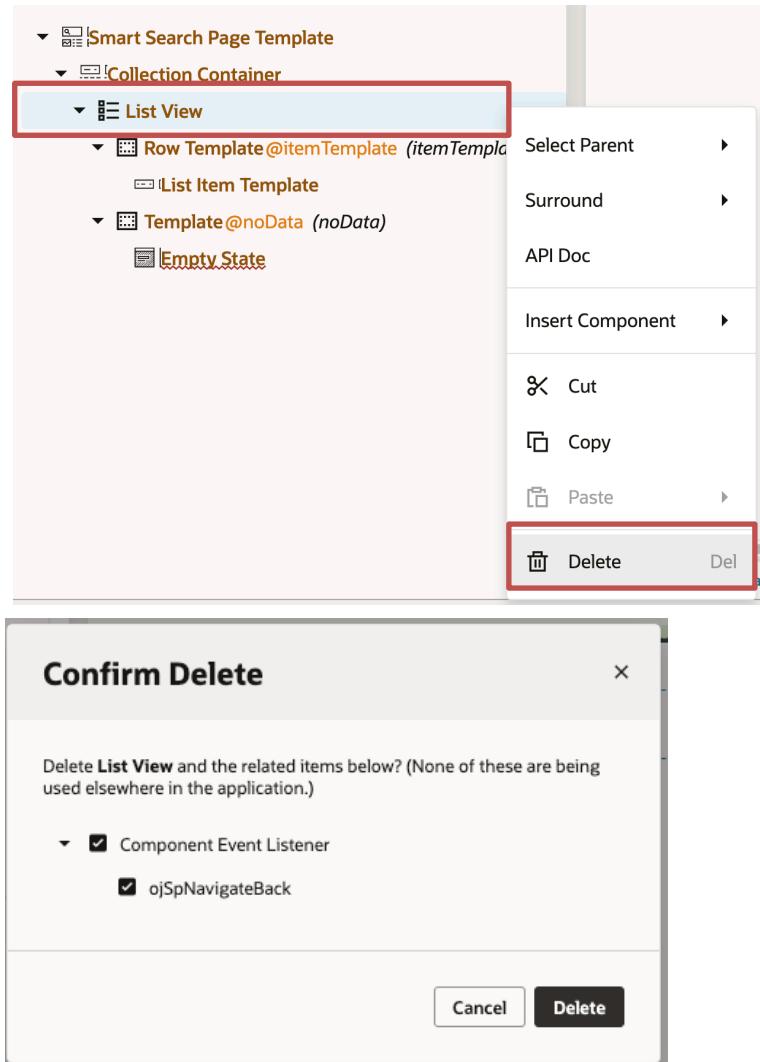
The screenshot shows the Oracle Experience Platform interface for managing page templates. At the top, there is a search bar labeled "Filter" and a "..." button. Below this, a navigation menu lists "Smart Search Page Template" (selected), "Collection Container", and "List View".

The main area displays the "Smart Search Page Template" configuration. On the right, a vertical sidebar titled "Properties" is visible. The "General" tab is selected, showing the following fields:

- ID:** oj_ssp1
- Page Title:** Inventory (highlighted with a red box)
- Page Subtitle:** Search for products (highlighted with a red box)

Note: In the interest of time and not being repetitive, you will not implement the search in this practice. If you wish to implement the search functionality, consult Practice 2-1 to see how it is done. It is suggested you search on **brandName** or **productName**.

6. A Collection Container and List View and other components have already been added for you and it can save time and effort to use these to display lists of records in rows. In our case however, we're going to use a table. Select List View in the Structure pane and right-click and select Delete to delete everything contained within the collection container and just keep the collection container.



7. Click the Data tab, expand Business Objects > rraProducts, and drag Get Many onto the Collection Container's Collection Slot. Render as a Table when prompted.

The screenshot shows the Oracle ADF Page Designer interface. On the left, the Data tab is selected, displaying the Components palette. Under Business Objects, the rraProducts node is expanded, showing its operations. The 'Get Many' operation is highlighted with a red box and has a red arrow pointing to the 'Collection Slot' area on the right. The 'Collection Slot' area is also highlighted with a red box. Below the main canvas, a modal dialog titled 'Collection Slot' shows the 'Render as' dropdown menu, with the 'Table' option highlighted by a red box.

8. From the Endpoint Structure, select in this order: **productNumber**, **productName**, **imageUrl**, **unitPrice**, and **brandName**. Choose **Image** for **imageUrl**. Click **Next** and then **Finish**.

Hint: If you choose to implement the search functionality, you should first create a variable to hold the value coming from the Input Text component and use that on the query page to create the filter criteria.

Columns

The screenshot shows a list of columns for a table. The columns are:

- A productNumber X Text
- A productName X Text
- A imageUrl X Image (highlighted with a red border)
- # unitPrice X Text
- A brandName X Text

9. Notice the image does not display correctly. Select **Image** and then click its **Data** tab.

The screenshot shows the page template structure and the properties for an image component.

Page Structure:

- Smart Search Page Template
 - Collection Container
 - Table
 - Cell Template@multiFieldCellTemplate3
 - Image

10. Replace the code for the **Source URL** with the following code:

```
[[ $application.path + 'resources/' + $current.row.imageUrl ]]
```

The screenshot shows the Oracle ADF Faces Designer interface. On the left, there's a tree view of components under a 'Smart Search Page Template'. Under 'Collection Container', a 'Table' component is selected, indicated by a red box around its icon and name. Below the tree, there's a preview area showing a single row of data with an image placeholder. To the right, a large 'Properties' panel is open. At the top of the properties panel, tabs for 'General', 'Data', 'Events', and 'All' are visible, with 'Data' being the active tab. In the 'Source URL' section of the Data tab, the expression '[[\$application.path + 'resources/' + \$current.row.imageUrl]]' is displayed in a text input field, also highlighted with a red box.

The images now display correctly.

11. Select the **Table** and click its **Events** tab.

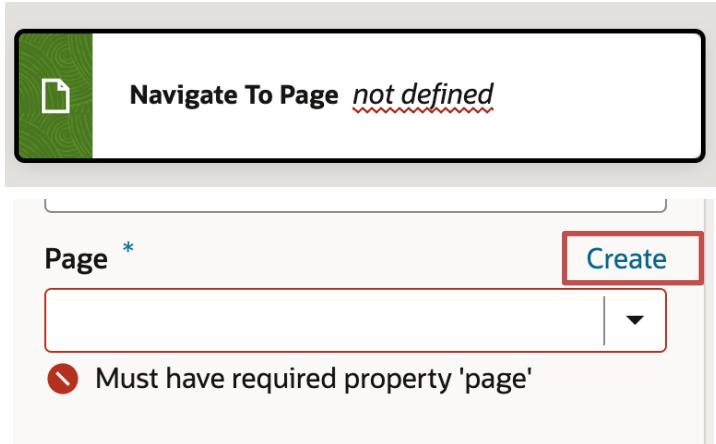
This screenshot shows the 'Events' tab of the Table component's properties. The 'Events' tab is highlighted with a red box. Other tabs like 'General', 'Data', 'All', and 'Quick Start' are visible but not selected. Below the tabs, there's a list of event listeners: 'On 'First Selected Row'', 'On 'Select Multiple Rows'', 'On 'ojBeforeRowEdit'', 'On 'ojBeforeRowEditEnd'', and a '+ Create' button.

12. Add a new **On 'First Selected Row'** event listener. The action chain opens.

This screenshot shows the list of event listeners for the Table component. The 'On 'First Selected Row'' option is highlighted with a red box. Other options include 'On 'Select Multiple Rows'', 'On 'ojBeforeRowEdit'', 'On 'ojBeforeRowEditEnd'', and a '+ Create' button.

13. Add a **Navigate to Page** action to the canvas.

14. For its **Page** property, click the **Create** link to create a new page.



15. Name the new page **main-view-product-details** and select the **Horizontal Foldout Layout Page Template**. You will use this to display product and supplier information in a foldout layout. Click **Create**.

The screenshot shows a 'Choose Page Content' dialog with the following options:

- 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.
- 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.
- 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. This option is highlighted with a red border.

16. Notice the parameters for the new page do not have an objectId but use the **rowIndex** instead. Bind the ***rowKey** to the **rowIndex**. This will pass the correct row position to the next page.

The screenshot shows the Oracle ADF Faces application builder interface. It has two main sections: "Parameters" and "Variables".

Parameters Tab:

- A parameter named "parentPage" is defined with a type of "A".
- A parameter named "# rowIndex" is defined with a type of "#".
- A "fx" button is available for the "# rowIndex" parameter.

Variables Tab:

- A search bar labeled "Filter" is present.
- Under "Local", there is a "Create" button.
- Under "Input Parameters", there are two entries:
 - "rowData" (marked with a star)
 - "rowKey" (marked with a star and highlighted with a red box)
- A "Select Variable" button is located at the top right of the variables section.

Below the tabs:

- A parameter named "parentPage" is defined with a type of "A".
- A parameter named "# rowIndex" is defined with a type of "#".
- The value for "# rowIndex" is set to "[[rowKey]]" and is also highlighted with a red box.

17. Close all open tabs.

This completes this practice.

Practice 5-2: Create the View Product Details Page

Overview

In this practice, you create the View Product Details page, which displays information about a product and its supplier in separate panels.

The screenshot shows a user interface for viewing product details. At the top, there is a search bar labeled "Search Slot" with arrows for navigation. Below the search bar, the product name "Platino Platinum Wearable, Black" is displayed. The interface is divided into three main sections:

- Product Panel:** Contains a large image of the product, followed by several data fields:
 - ProductId: 8
 - ProductName: Platino Platinum Wearable, Black
 - ProductNumber: RWD000301
 - Description: Platino Platinum Wearable, Black Sleek and Modern.
 - BrandName: (empty)
- Supplier Panel:** Contains the following data fields:
 - SupplierName: Worldwide Innovations
 - SupplierNumber: SUP007098
 - SupplierId: 8
 - ContactName: Constance Noring
 - EmailAddress: constance.noring@worldwide-innovations.mail
 - Phone: 6,173,721,142
- Supplier Contact Panel:** Contains a summary slot and a link:
 - Summary Slot: (empty)
 - SupplierUrl: <https://www.worldwide-innovations.com>

Assumptions

You have successfully completed Practice 5-1.

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_<initials>**, where **<your initials>** corresponds to your initials.

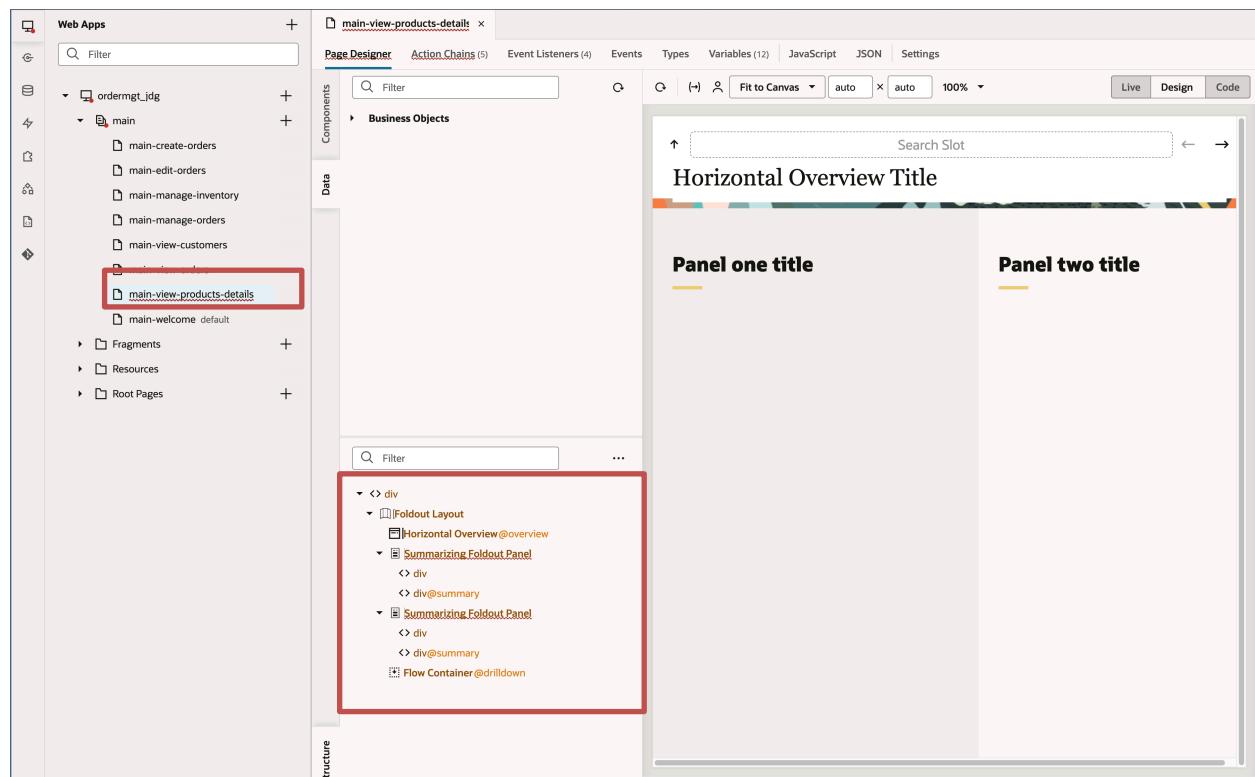
The screenshot shows the Visual Builder Studio interface. On the left is a sidebar with icons for Organization, Project Home, Workspaces, Git, Merge Requests, Maven, NPM, Docker, Builds, Releases, and Environments. The main area is titled "Visual Builder Studio" and "Organization". Below it is a "Projects" tab. A search bar and filters for Member, Favorites, Owner, Shared, and All are at the top. A table lists "Projects: 3". The first row in the table is highlighted with a red box and shows "OrderMgt_JDG Current Order Management Applic...". The table has columns for Name, Template, Favorite, and Status.

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 the "Workspaces" tab selected in the sidebar. The main area is titled "Visual Builder Studio" and "OrderMgt_JDG ▾ | Workspaces". A search bar and filters for Mine and Others are at the top. A table lists workspaces. The first workspace, "OrderMgt_JDG", is highlighted with a red box and 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.

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-product-details** page. It opens in Page Designer.



Notice there are two Summarizing Foldout Panels already added for you, but you can add more if you need to. You will use the Detail form wizard to define the fields for the product panel and supplier panel, which will create the REST call needed to retrieve the data for the panels on entry to the form.

5. Click the **Data** tab and expand **Business Objects > rraProducts** and drag **Get One** into the first Summarizing Foldout Panel's div. Select **Detail**, not Dynamic, when prompted.

The screenshot shows the Oracle ADF Page Designer interface. The top navigation bar includes tabs for Page Designer, Action Chains (5), Event Listeners (4), Events, and Tools. The left sidebar has sections for Components and Data. Under Data, the Business Objects section is expanded, showing rraCustomers, rraOrderLines, rraOrders, and rraProducts. rraProducts is also expanded, showing Get Many, Create, Get One (which is highlighted with a red box), Update, and rraSuppliers. The main workspace shows a hierarchical tree structure. A red arrow points from the 'Get One' component in the tree to the 'Summarizing Foldout Panel' div in the workspace. A modal dialog at the bottom is titled 'Render as' and has two options: 'Detail' (selected) and 'Dynamic'. The 'Detail' option is also highlighted with a red box.

6. From the Endpoint Structure, select the following fields in order. Click **Next**.

Fields

| | |
|-------------------|----------------|
| A imageUrl X | Input Text ▾ |
| # productId X | Input Number ▾ |
| A productName X | Input Text ▾ |
| A productNumber X | Input Text ▾ |
| A description X | Input Text ▾ |
| A brandName X | Input Text ▾ |
| A categoryName X | Input Text ▾ |
| # unitPrice X | Input Number ▾ |
| A weight X | Input Text ▾ |
| A dimensions X | Input Text ▾ |

7. Map the **rowIndex** to the required **Target > get_rraProducts > rraProducts_Id** Parameter and click **Finish**. The **rowIndex** was passed from the Manage Inventory page and is used to retrieve that product when this page loads.

```

# rowIndex
-----+
-----+ A rraProducts_Id*

```

8. Initially, there is no data displayed because rowIndex was not passed in yet. Click the **Page Input Parameters** button, enter a value of **2** for **rowIndex**, and click the **Set Parameters** button and you'll see the data displayed.

Page Input Parameters

| |
|------------|
| # rowIndex |
| 2 |

Search Slot

Horizontal Overview Title

Panel one title

Form Layout

ImageUrl
images/OrionIntermediate.png

ProductId
2

ProductName
Orion Fitness Wearable Gen2

ProductNumber
RWD000102

Description
Orion Fitness Wearable Gen2 Sleek and Modern.

BrandName
Orion Fitness

CategoryName
Wearables

UnitPrice
85

Weight

9. You can now access the data values that were returned and use them to configure the page. Select the **Horizontal Overview** element and click its **All** tab.

▼ <> div

▼ 📄 Foldout Layout

Horizontal Overview @overview ⓘ

▼ ⏷ Summarizing Foldout Panel

▼ <> div

Horizontal Overview

General Events All

10. For the **Title** property, select **rraProducts > productName**. The page title shows the Product Name.

The screenshot shows the configuration of a Title component in an Oracle ADF Faces application. At the top, there is a toolbar with icons for refresh, search, and a red box around a 'Select Variable' button. Below the toolbar, the Title field contains the expression `[[$page.variables.pageTitle]]`. To the right of the field is a 'Select Variable' button with a red box around it. Below the Title field is a 'Variables' section. The 'Variables' section has a search bar labeled 'Filter'. A list of variables is shown, with `productName` highlighted by a red box. Other variables listed include `description`, `dimensions`, `imageUrl`, `productId`, `productNumber`, `unitPrice`, `weight`, and `selectedPanel`. Below the variables is a 'Functions' section. At the bottom, the page title is displayed as 'Orion Fitness Wearable Gen2'.

| Variable | Action |
|----------------------------|--------|
| <code>description</code> | Edit |
| <code>dimensions</code> | Edit |
| <code>imageUrl</code> | Edit |
| <code>productId</code> | Edit |
| <code>productName</code> | Edit |
| <code>productNumber</code> | Edit |
| <code>unitPrice</code> | Edit |
| <code>weight</code> | Edit |
| <code>selectedPanel</code> | Edit |

11. Select the first **Summarizing Foldout Panel**, click its **All** tab, and change its **Title** to Product.

The screenshot shows the Oracle ADF Designer interface. At the top, there is a tree view of components:

- > div
- > Foldout Layout
- > Horizontal Overview @overview
- > Summarizing Foldout Panel (highlighted with a red box)
- > <> div

Below the tree view is a preview window. It contains a navigation bar with three tabs: General, Events, and All (which is highlighted with a red box). Underneath the tabs is a title field labeled "Title *". The input field contains the value "Product" (also highlighted with a red box).

At the bottom of the preview window, there is a header labeled "Summarizing Foldout Panel" followed by a small toolbar icon. Below the toolbar, the word "Product" is displayed in large, bold, black font.

12. Drag an **Image** component into the **Form Layout** just above the first **Input Text** component. Enter:

```
[[application.path + 'resources/' +  
variables.rraProducts.imageUrl]]
```

for its **Data > Source URL** property. The image displays in the panel.

main-view-products-details

Page Designer Action Chains (6) Event Listeners (4) Events

Components Data

Controls & Navigation

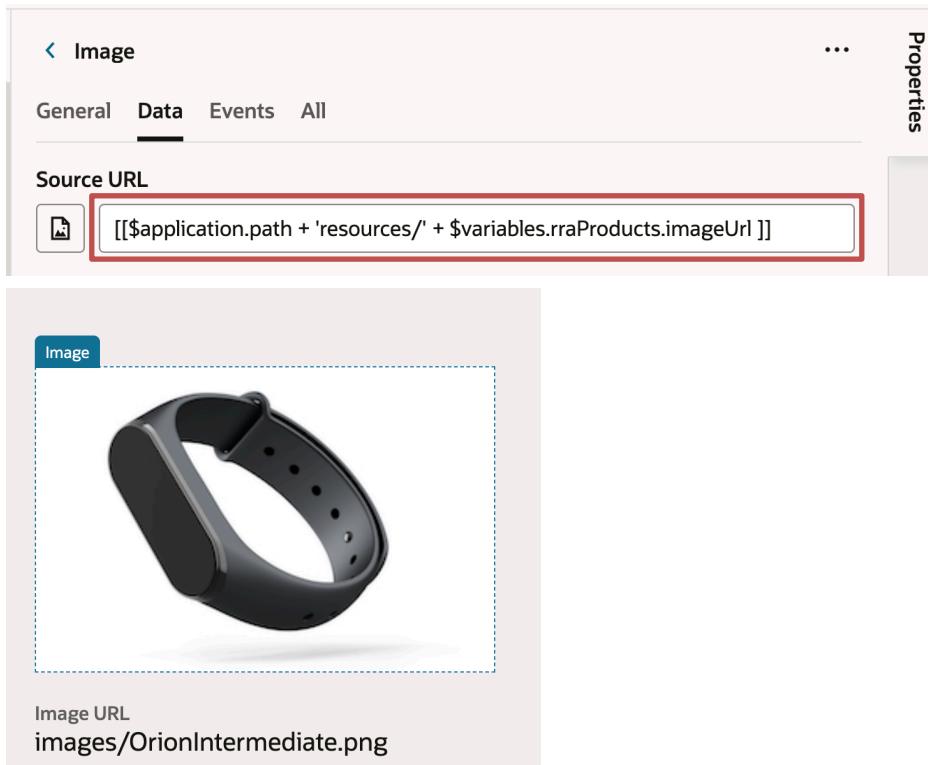
Image

You can also try searching for "image" at Component Exchange...

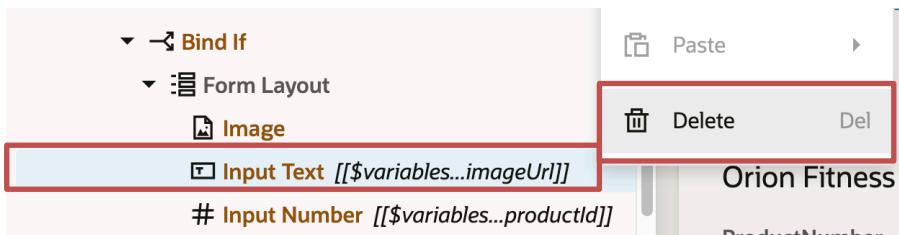
Search Exchange

Filter

- <> div
- Foldout Layout
 - Horizontal Overview@overview
 - Summarizing Foldout Panel
 - <> div
 - Bind If
 - Form Layout
 - Input Text [[\$variables...imageUrl]]
 - # Input Number [[variables...productId]]
 - Input Text [[variables...productName]]
 - Input Text [[variables...productNumber]]
 - Summarizing Foldout Panel
 - <> div
 - Bind If
 - Form Layout
 - Image
 - Input Text [[variables...imageUrl]]
 - Input Text [[variables...ProductId]]



13. Delete the **first Input Text** component that has the **ImageUrl** because it's no longer needed.



14. Select the second **Summarizing Foldout Panel**. Change its **Title** to **Supplier**.

The screenshot shows the properties of a Summarizing Foldout Panel component. The Title field is set to `Supplier`.

Orion Fitness Wearable Gen2



15. Click the **Data** tab and expand **Business Objects > rraSuppliers** and drag **Get One** onto the second Summarizing Foldout Panel's first div. Select **Detail**, not Dynamic, when prompted.

main-view-products-details x

Page Designer Action Chains (6) Event Listeners (4) Event

Components Data Structure

Filter

Business Objects

- rraCustomers
- rraOrderLines
- rraOrders
- rraProducts
- rraSuppliers

Get Many

Create

Get One

GET /rraSuppliers/{rraSuppliers_Id}

Service Business Object
ID, Action Hint get_rraSuppliers getOne
Description Get

Filter

Image

- # Input Number [[variables...productId]]
- [x] Input Text [[variables...productName]]
- [x] Input Text [[variables...productNumber]]
- [x] Input Text [[variables...description]]
- [x] Input Text [[variables...brandName]]
- [x] Input Text [[variables...categoryName]]
- # Input Number [[variables...unitPrice]]
- [x] Input Text [[variables...weight]]
- [x] Input Text [[variables...dimensions]]

<> div@summary

Summarizing Foldout Panel

<> div

<> div@summary

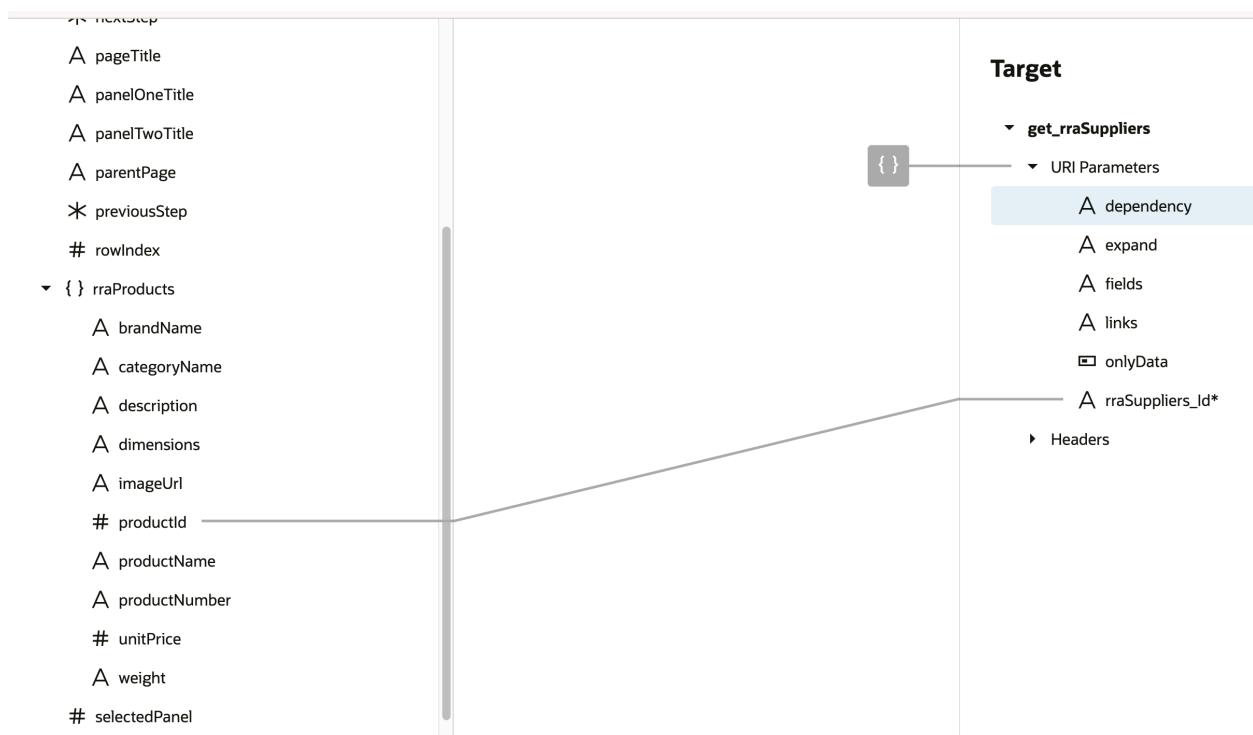
Flow Container @drilldown

16. Select the following fields in order and click **Next**.

Fields

| | |
|--------------------|----------------|
| A supplierName X | Input Text ▾ |
| A supplierNumber X | Input Text ▾ |
| # supplierId X | Input Number ▾ |
| A contactName X | Input Text ▾ |
| A emailAddress X | Input Text ▾ |
| # phone X | Input Number ▾ |
| A supplierUrl X | Input Text ▾ |

17. Map the **rraProducts > productId** to the **Target get_rraSuppliers > rraSuppliers_Id URI Parameter** and click **Finish**. The **ProductId** is used to retrieve the correct supplier for this product when this page loads.



The supplier information displays.

18. Add a new **Summarizing Foldout Panel**. Select the **Foldout Layout** template and on the General tab, click the **+** to insert a component into the **Default Slot** property. Enter **Summ** into the **Filter** and select **Summarizing Foldout Panel**.

The screenshot shows the Oracle ADF Designer interface. At the top, there's a component tree with a 'Foldout Layout' node selected. Below it, under 'Horizontal Overview @overview', is a 'Summarizing Foldout Panel'. This panel is expanded to show its internal structure, which consists of a single 'div' component. In the bottom right corner of the interface, there's a toolbar with icons for inserting components, deleting, and other operations. A red box highlights the '+' icon on the toolbar.

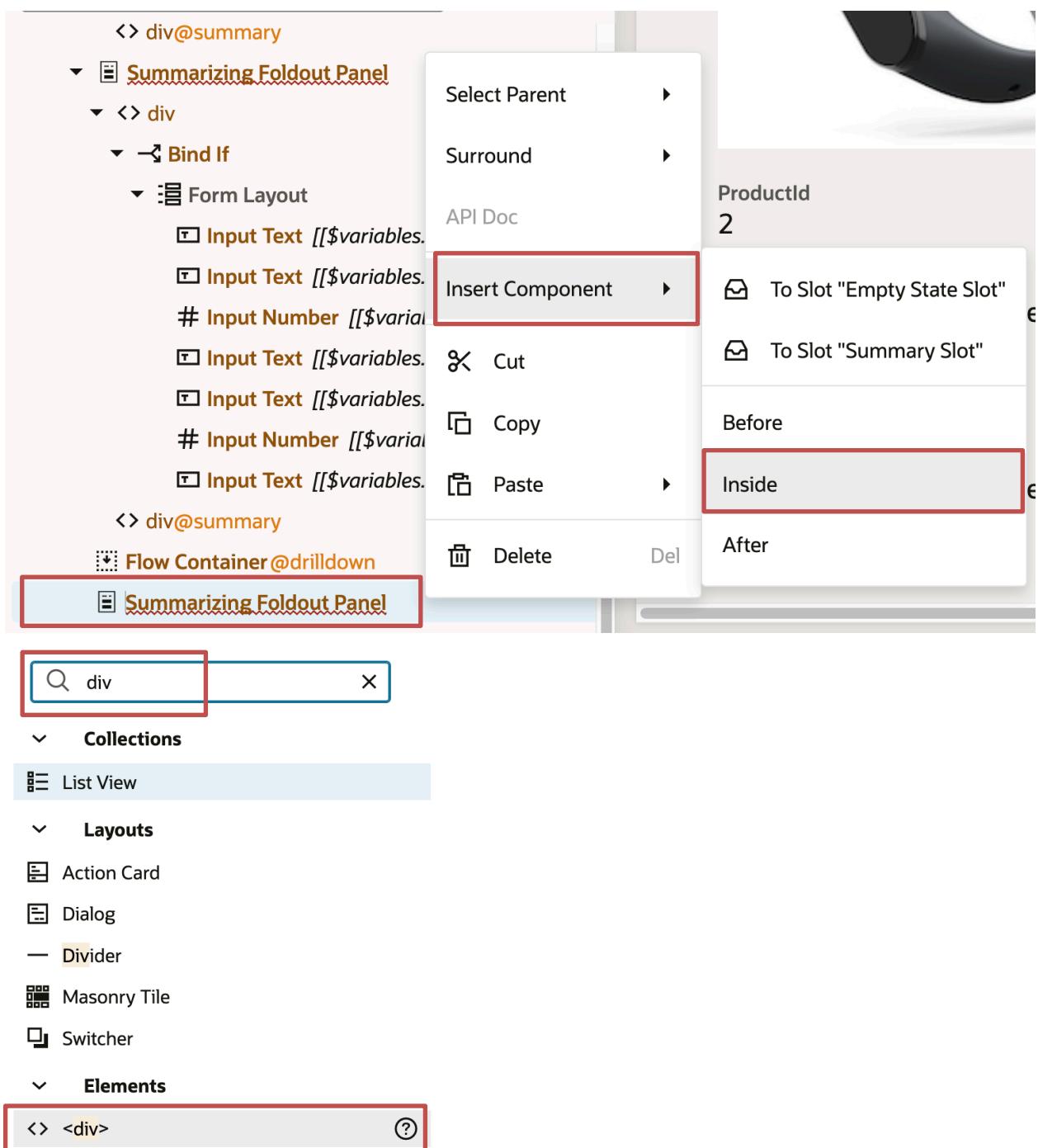
Tip: Hover your mouse on the right side to see the icons displayed.

This screenshot shows a search interface within the Oracle ADF Designer. A search bar at the top contains the text 'Summ'. Below the search bar, a section titled 'Redwood Patterns' is expanded, showing two items: 'Summarizing Collection' and 'Summarizing Foldout Panel'. The 'Summarizing Foldout Panel' item is highlighted with a red box.

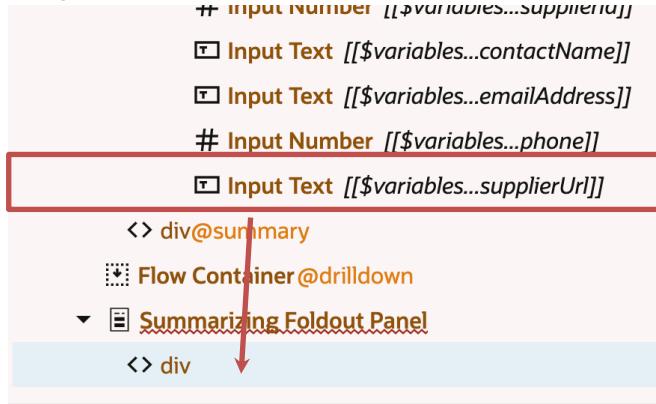
19. Click the link for the new panel. Enter **Supplier Contact** for the **Title**.

This screenshot shows the Oracle ADF Designer canvas and properties panel for a 'Summarizing Foldout Panel'. On the canvas, there's a table with columns 'Product', 'Supplier', and 'Supplier Contact'. The 'Supplier Contact' column has a summary slot. The properties panel on the right shows the 'General' tab selected. Under the 'Title' field, the value 'Supplier Contact' is entered. Other fields like 'Overflow Action' and 'Header Actions' are also visible.

20. Right-click the new **Summarizing Foldout Panel** and choose **Insert Component > Inside**. Enter `div` into the filter and select `<div>`.



21. Drag the last **Input Text** component with the **supplierUrl** into the new div.



22. Put the page into **Live** mode and you should be able to scroll between the panels.
 23. Test that this all works by clicking the **main-manage-inventory** tab, click the Page Designer tab and run the page in **Live** mode. Select a product and it should navigate to the details page and the data should appear for that product and supplier.

| Product Number | Product Name | Image URL | Unit Price | Brand |
|----------------|---------------------------------|-----------|------------|---------------|
| RWD000102 | Orion Fitness Wearable Gen2 | | 85 | Orion Fitness |
| RWD000103 | Orion Fitness Wearable Gen3 | | 99 | Orion Fitness |
| RWD000202 | Oro Gold Wearable, Blue | | 149 | Supremo |
| RWD000203 | Oro Gold Wearable, Pink | | 149 | Supremo |
| RWD000302 | Platino Platinum Wearable, Blue | | 199 | Supremo |
| RWD000303 | Platino Platinum Wearable, Pink | | 199 | Supremo |

24. Return to Design mode.

25. Close all tabs.

This completes this practice.

