Navegación a una página de detalle

Desde la Tabla construida anteriormente vamos a agregar un evento a la fila para que al dar click se tomen los datos y se navegue a una página de detalle.

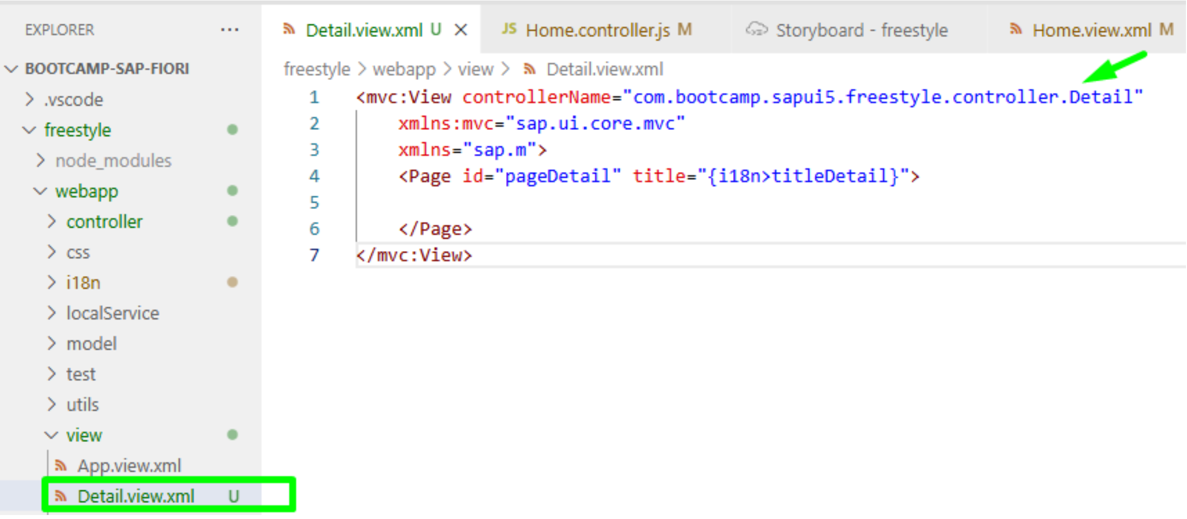
https://services.odata.org/Northwind/Northwind.svc/Products(1)?$expand=Order_Details&$format=json

Pasos a realizar:

1. Crear una nueva vista, la llamaremos **Detail**

   freestyle/webapp/view/Detail.view.xml

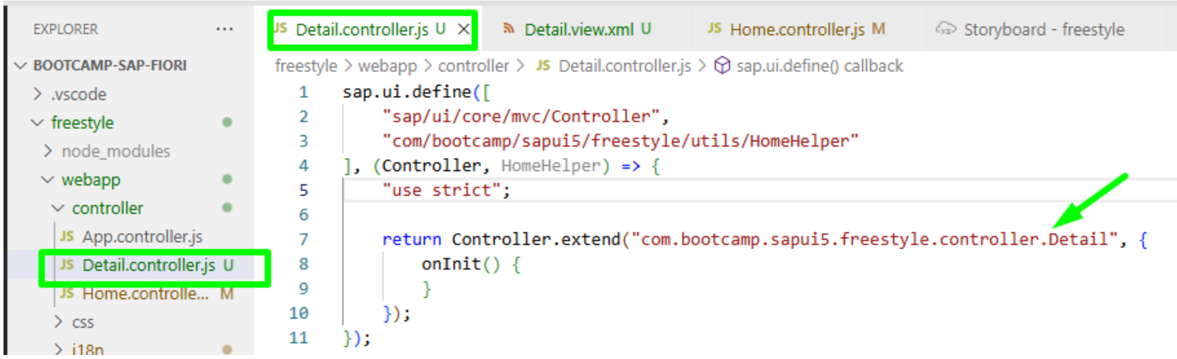
```
JavaScript
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
    xmlns:mvc="sap.ui.core.mvc"
    xmlns="sap.m">
    <Page id="pageDetail" title="{i18n>titleDetail}">

    </Page>
</mvc:View>
```



```
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
    xmlns:mvc="sap.ui.core.mvc"
    xmlns="sap.m">
    <Page id="pageDetail" title="{i18n>titleDetail}">

    </Page>
</mvc:View>
```

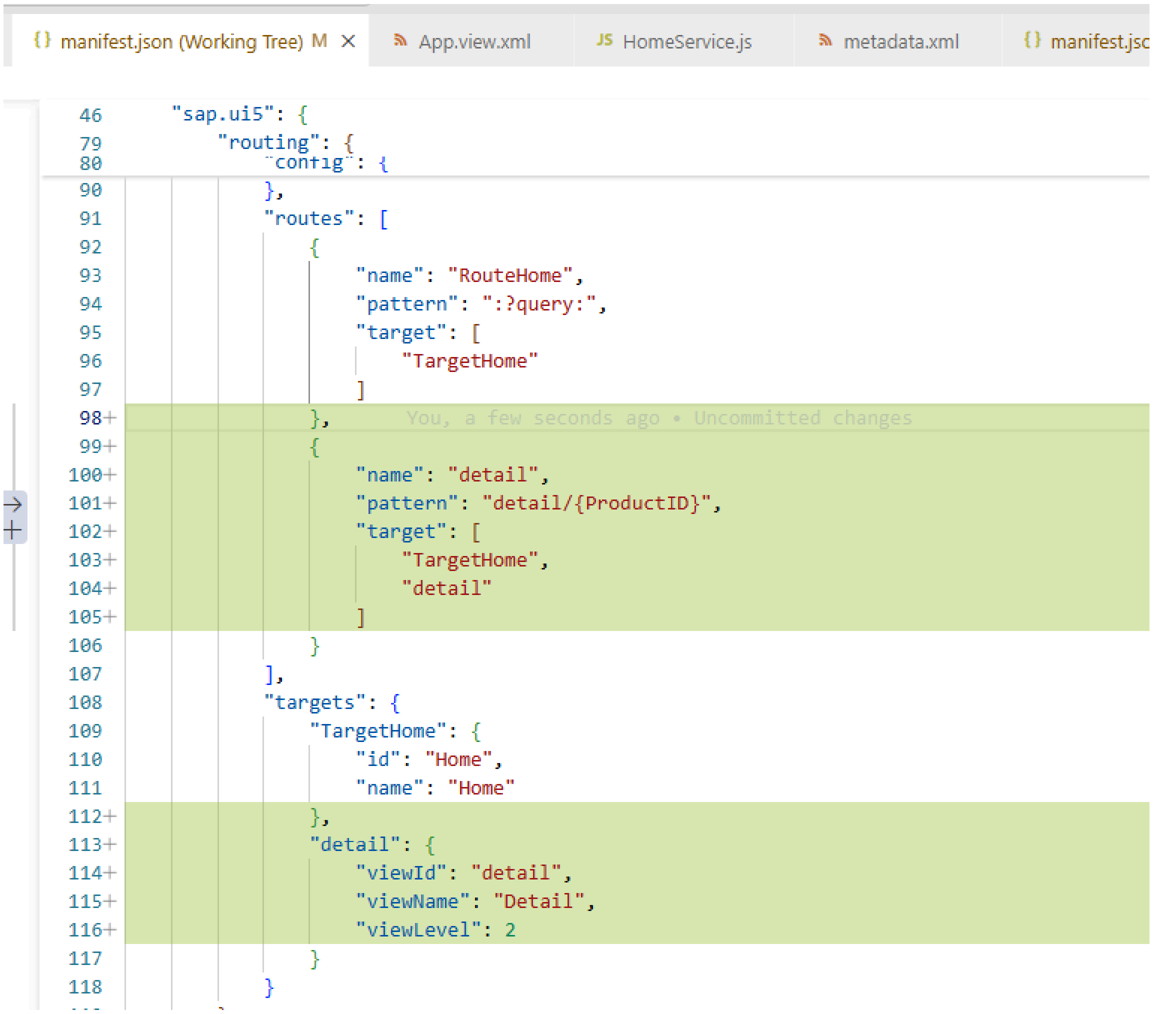
La vista se le debe asignar su respectivo Controlador, por lo cual debemos agregarlo también, nombrarlo como Detail (**freestyle**/webapp/controller/Detail.controller.js)

```
JavaScript
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Detail",
{
        onInit() {
        }
    });
});
```



```
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Detail", {
        onInit() {
        }
    });
});
```

2. Se debe configurar enrutamiento y la navegación a la nueva vista en el archivo **manifiest.json**


{} manifest.json (Working Tree) M ×
App.view.xml
JS HomeService.js
metadata.xml
{} manifest.jsc
You, a few seconds ago • Uncommitted changes

```
    "sap.ui5": {
        "routing": {
            "config": {
            },
            "routes": [
                {
                    "name": "RouteHome",
                    "pattern": ":?query:",
                    "target": [
                        "TargetHome"
                    ]
                },
                {
                    "name": "detail",
                    "pattern": "detail/{ProductID}",
                    "target": [
                        "TargetHome",
                        "detail"
                    ]
                }
            ],
            "targets": {
                "TargetHome": {
                    "id": "Home",
                    "name": "Home"
                },
                "detail": {
                    "viewId": "detail",
                    "viewName": "Detail",
                    "viewLevel": 2
                }
            }
```

Como se visualiza en la configuración la vista Detail recibirá un parámetro, el `ProductID.` Este parámetro será tomado al seleccionar un Ítem de la tabla que tenemos en la vista **Home,** como veremos a continuación.

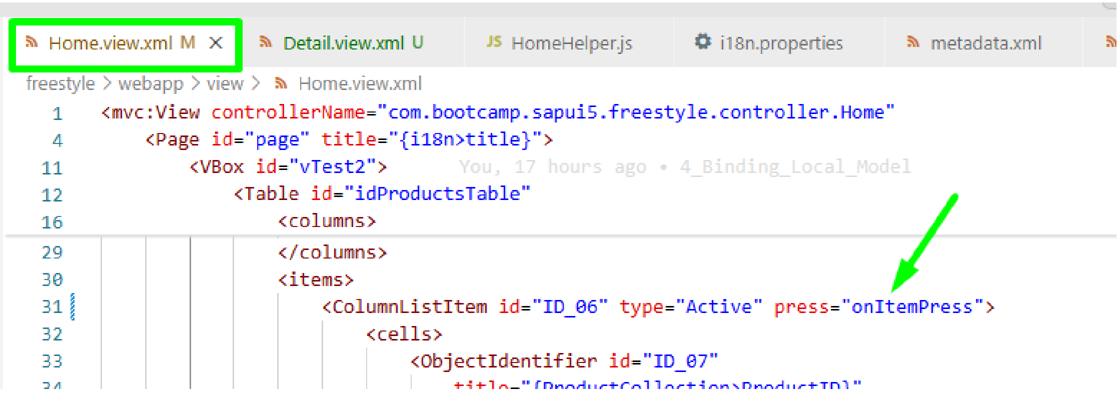
JavaScript

```
                {
                    "name": "detail",
                    "pattern": "detail/{ProductID}",
                    "target": [
                        "TargetHome",
                        "detail"
                    ]
                }
```

```
"detail": {
    "viewId": "detail",
    "viewName": "Detail",
    "viewLevel": 2
}
```

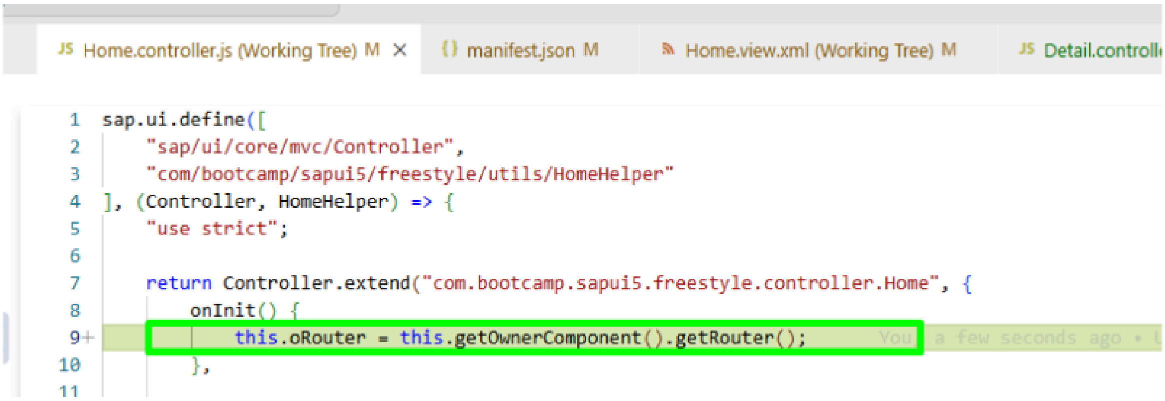
3. En la vista **Home** Agregar un evento a la fila de la Tabla de Productos para que responda cuando el usuario presione un Ítem.

```
<ColumnListItem id="ID_06" type="Active" press="onItemPress">
```

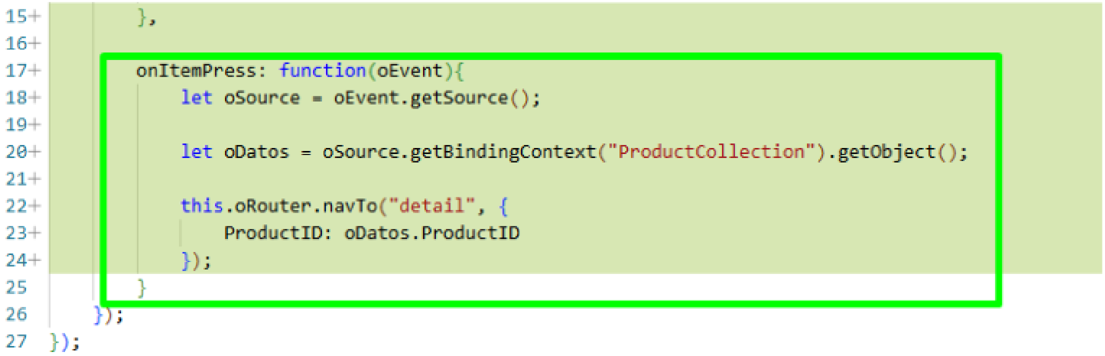


```
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Home"
    <Page id="page" title="{i18n>title}">
        <VBox id="vTest2">        You, 17 hours ago • 4_Binding_Local_Model
            <Table id="idProductsTable"
                <columns>
                </columns>
                <items>
                    <ColumnListItem id="ID_06" type="Active" press="onItemPress">
                        <cells>
                            <ObjectIdentifier id="ID_07"
                                title="{ProductCollection>ProductID}"
```

4. Modificar el Controller **Home** para agregar la función que tomará los datos de la fila seleccionada y Navegará a la Vista Detail:


Home.controller.js (Working Tree) M ×
manifest.json M
Home.view.xml (Working Tree) M
Detail.controll

```
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Home", {
        onInit() {
            this.oRouter = this.getOwnerComponent().getRouter();      You, a few seconds ago •
        },
```

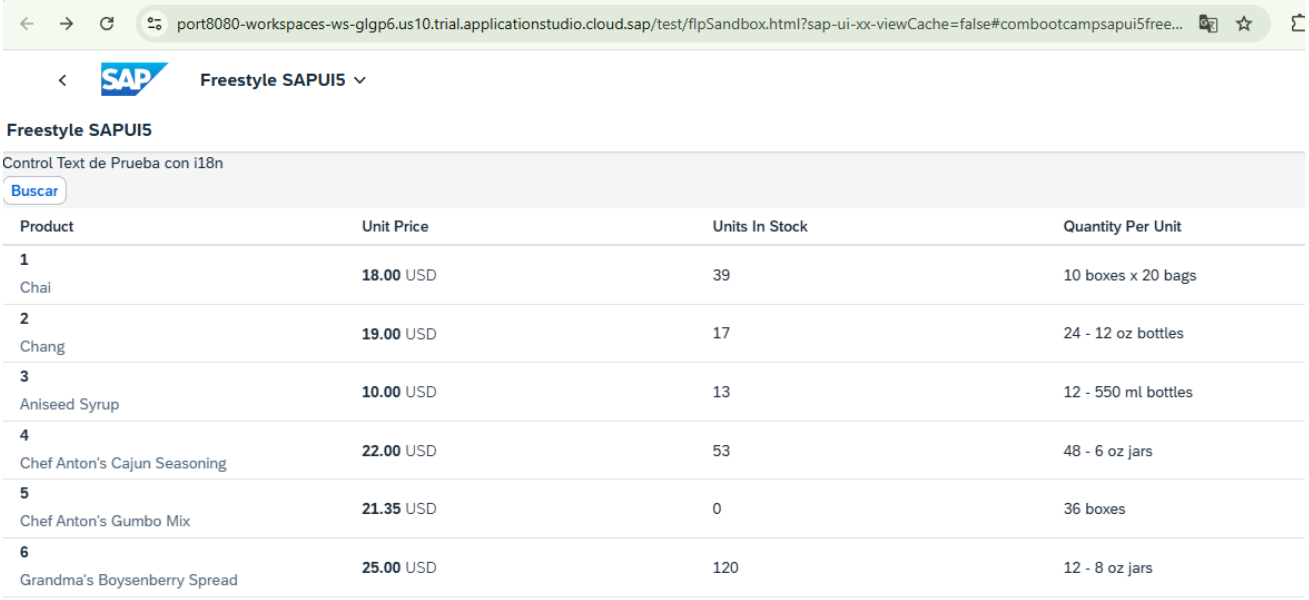


```
        },

        onItemPress: function(oEvent){
            let oSource = oEvent.getSource();

            let oDatos = oSource.getBindingContext("ProductCollection").getObject();

            this.oRouter.navTo("detail", {
                ProductID: oDatos.ProductID
            });
        }
    });
});
```

JavaScript

```javascript
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Home", {
        onInit() {
            this.oRouter = this.getOwnerComponent().getRouter();
        },

        onPress: async function(){
            let oDatos = await HomeHelper.getDataProducts();
            await HomeHelper.setProductModel(this, oDatos[0].results);
        },

        onItemPress: function(oEvent){
            let oSource = oEvent.getSource();

            let oDatos = oSource.getBindingContext("ProductCollection").getObject();

            this.oRouter.navTo("detail", {
                ProductID: oDatos.ProductID
            });
        }
    });
});
```

Ejecutamos la App para probar la navegación.



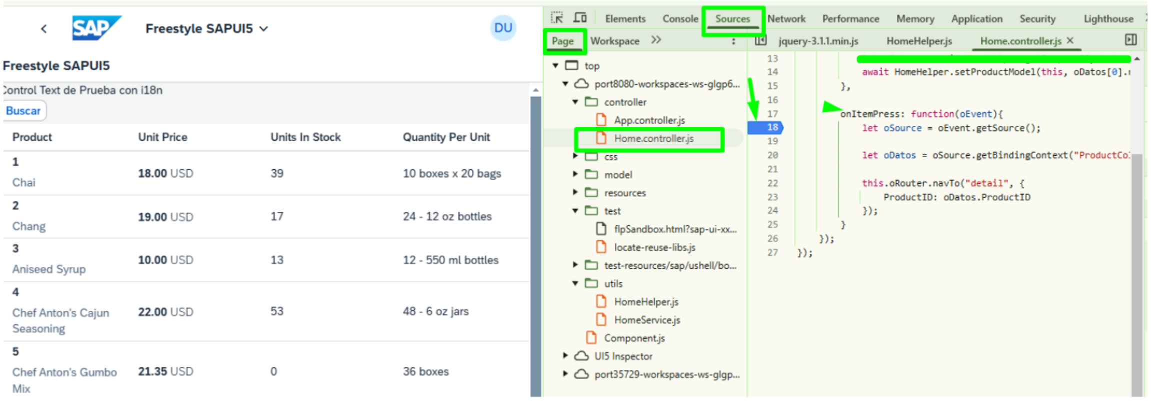
port8080-workspaces-ws-glgp6.us10.trial.applicationstudio.cloud.sap/test/flpSandbox.html?sap-ui-xx-viewCache=false#combootcampsapui5free...

Freestyle SAPUI5

Control Text de Prueba con i18n

Product	Unit Price	Units In Stock	Quantity Per Unit
1 Chai	**18.00** USD	39	10 boxes x 20 bags
2 Chang	**19.00** USD	17	24 - 12 oz bottles
3 Aniseed Syrup	**10.00** USD	13	12 - 550 ml bottles
4 Chef Anton's Cajun Seasoning	**22.00** USD	53	48 - 6 oz jars
5 Chef Anton's Gumbo Mix	**21.35** USD	0	36 boxes
6 Grandma's Boysenberry Spread	**25.00** USD	120	12 - 8 oz jars

- Presionamos F12 y agregamos un breakpoint en la función **`onItemPress`**



Freestyle SAPUI5

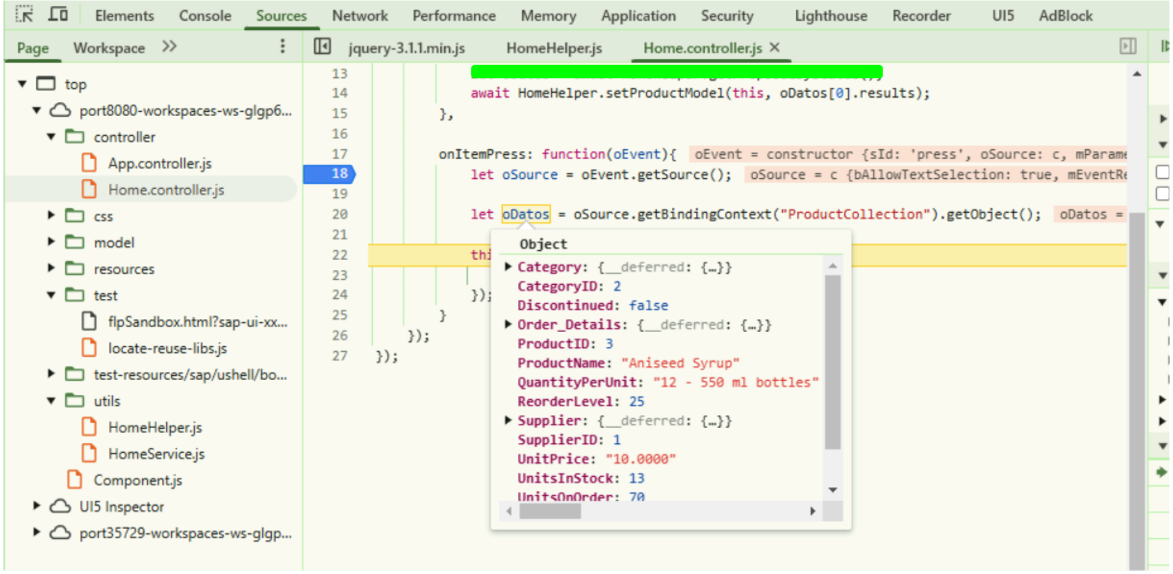
Control Text de Prueba con i18n

Product	Unit Price	Units In Stock	Quantity Per Unit
1 Chai	**18.00** USD	39	10 boxes x 20 bags
2 Chang	**19.00** USD	17	24 - 12 oz bottles
3 Aniseed Syrup	**10.00** USD	13	12 - 550 ml bottles
4 Chef Anton's Cajun Seasoning	**22.00** USD	53	48 - 6 oz jars
5 Chef Anton's Gumbo Mix	**21.35** USD	0	36 boxes

```
top
  port8080-workspaces-ws-glgp6...
    controller
      App.controller.js
      Home.controller.js
    css
    model
    resources
    test
      flpSandbox.html?sap-ui-xx...
      locate-reuse-libs.js
    test-resources/sap/ushell/bo...
    utils
      HomeHelper.js
      HomeService.js
    Component.js
  UI5 Inspector
  port35729-workspaces-ws-glgp...
```

```

                await HomeHelper.setProductModel(this, oDatos[0].
            },

            onItemPress: function(oEvent){
                let oSource = oEvent.getSource();

                let oDatos = oSource.getBindingContext("ProductCo

                this.oRouter.navTo("detail", {
                    ProductID: oDatos.ProductID
                });
            }
        });
});
```

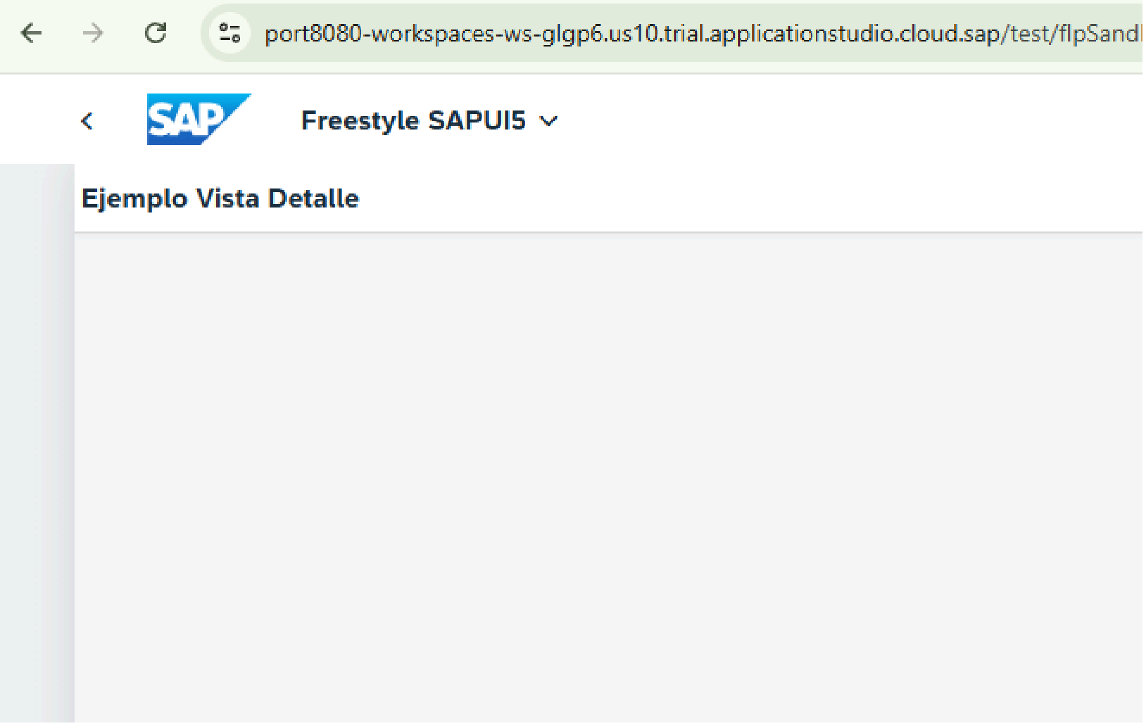
Damos Click en alguno de los Ítem de la tabla y al entrar en el Debug podemos ir revisando los valores de las variables:



```
                [redacted]
                await HomeHelper.setProductModel(this, oDatos[0].results);
            },

            onItemPress: function(oEvent){  oEvent = constructor {sId: 'press', oSource: c, mParame
                let oSource = oEvent.getSource();  oSource = c {bAllowTextSelection: true, mEventRe

                let oDatos = oSource.getBindingContext("ProductCollection").getObject();  oDatos =

                thi

                });
            }
        });
});
```

```
Object
▶ Category: {__deferred: {…}}
  CategoryID: 2
  Discontinued: false
▶ Order_Details: {__deferred: {…}}
  ProductID: 3
  ProductName: "Aniseed Syrup"
  QuantityPerUnit: "12 - 550 ml bottles"
  ReorderLevel: 25
▶ Supplier: {__deferred: {…}}
  SupplierID: 1
  UnitPrice: "10.0000"
  UnitsInStock: 13
  UnitsOnOrder: 70
```

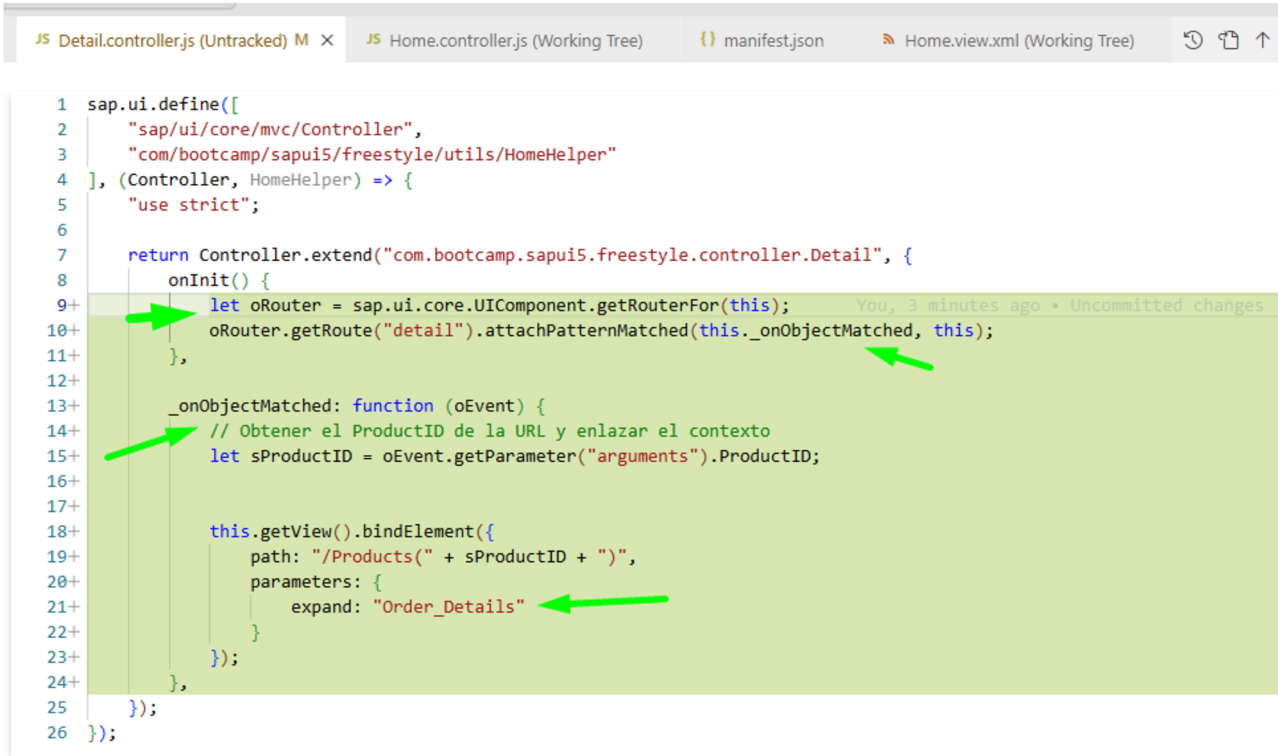
Al terminar la ejecución podremos navegar al detalle:


port8080-workspaces-ws-glgp6.us10.trial.applicationstudio.cloud.sap/test/flpSandl
SAP
Freestyle SAPUI5

Ejemplo Vista Detalle

Binding en la página detalle

Se hace la implementación de función para obtener el ProductID enviado desde la Vista Home, se hace el registro del evento **_onObjectMatched para que se ejecute en cuanto se cargue la página Detail:**


JS Detail.controller.js (Untracked) M ×
JS Home.controller.js (Working Tree)
{} manifest.json
Home.view.xml (Working Tree)
You, 3 minutes ago • Uncommitted changes

```
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Detail", {
        onInit() {
            let oRouter = sap.ui.core.UIComponent.getRouterFor(this);
            oRouter.getRoute("detail").attachPatternMatched(this._onObjectMatched, this);
        },

        _onObjectMatched: function (oEvent) {
            // Obtener el ProductID de la URL y enlazar el contexto
            let sProductID = oEvent.getParameter("arguments").ProductID;


            this.getView().bindElement({
                path: "/Products(" + sProductID + ")",
                parameters: {
                    expand: "Order_Details"
                }
            });
        },
    });
});
```

JavaScript

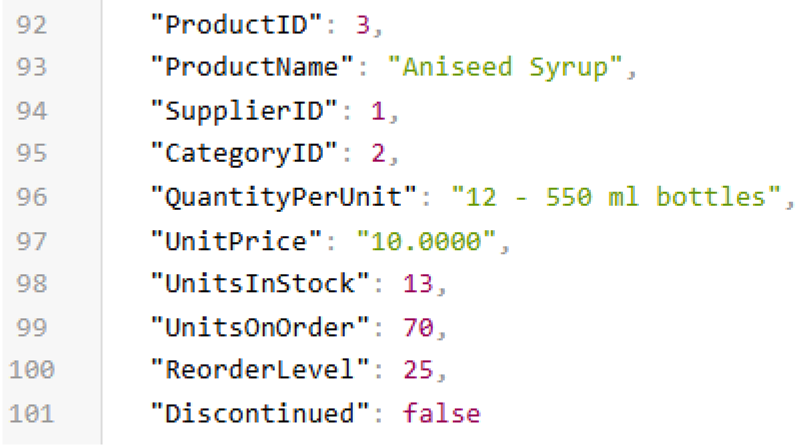
```
sap.ui.define([
    "sap/ui/core/mvc/Controller",
    "com/bootcamp/sapui5/freestyle/utils/HomeHelper"
], (Controller, HomeHelper) => {
    "use strict";

    return Controller.extend("com.bootcamp.sapui5.freestyle.controller.Detail",
{
        onInit() {
            let oRouter = sap.ui.core.UIComponent.getRouterFor(this);

oRouter.getRoute("detail").attachPatternMatched(this._onObjectMatched, this);
```

```
        },

        _onObjectMatched: function (oEvent) {
            // Obtener el ProductID de la URL y enlazar el contexto
            let sProductID = oEvent.getParameter("arguments").ProductID;


            this.getView().bindElement({
                path: "/Products(" + sProductID + ")",
                parameters: {
                    expand: "Order_Details"
                }
            });
        },
    });
});
```

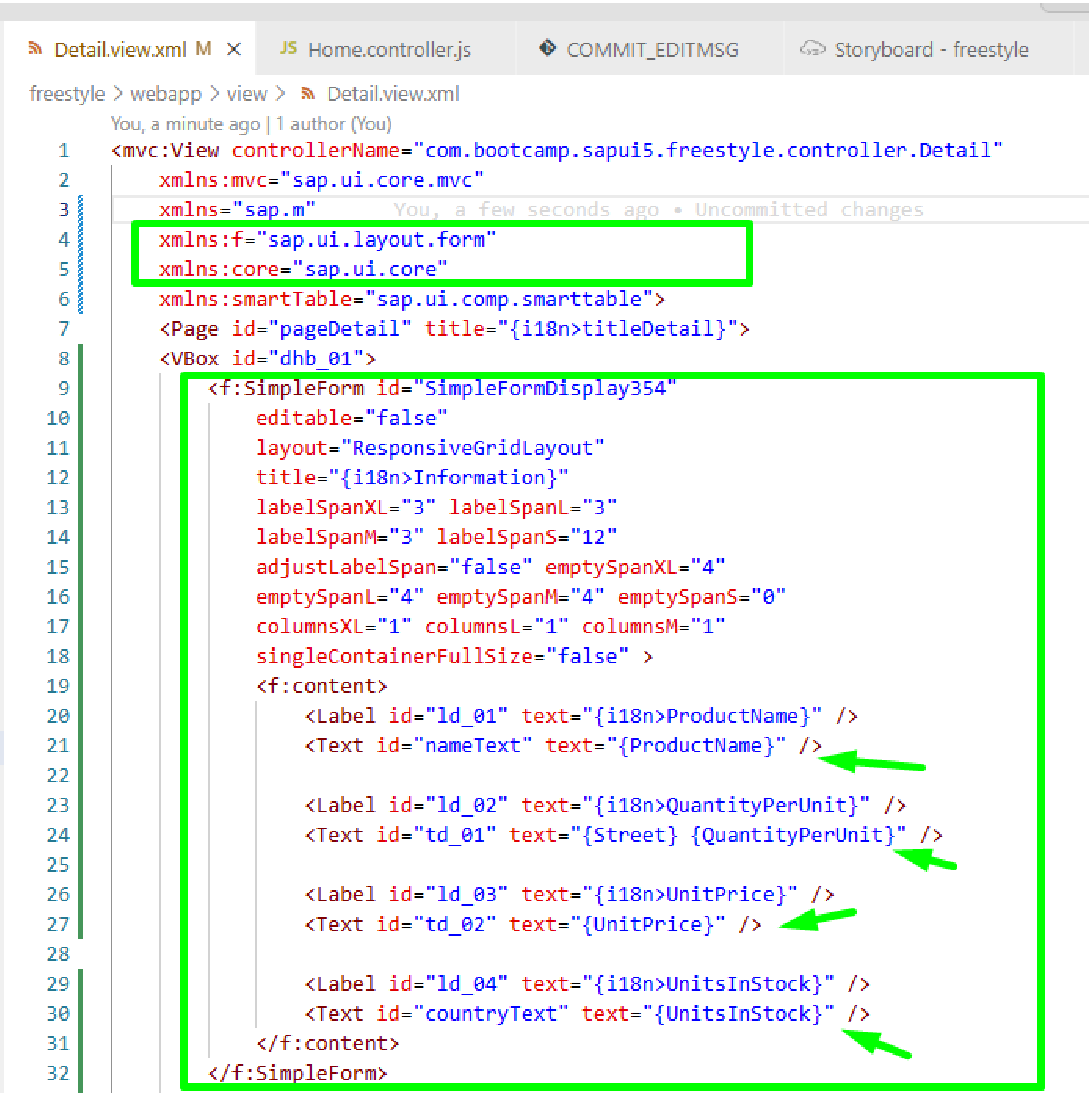
Con la función bindElement se hace el Binding a la vista con la información del Producto y adicional se hace un expand con Order_Details y así nos obtenemos el resumen de los pedidos asociados al Producto seleccionado.

Ahora modificamos la Vista Detail para agregar información del Producto y una tabla con el listado Order_Details.

Info del Producto:

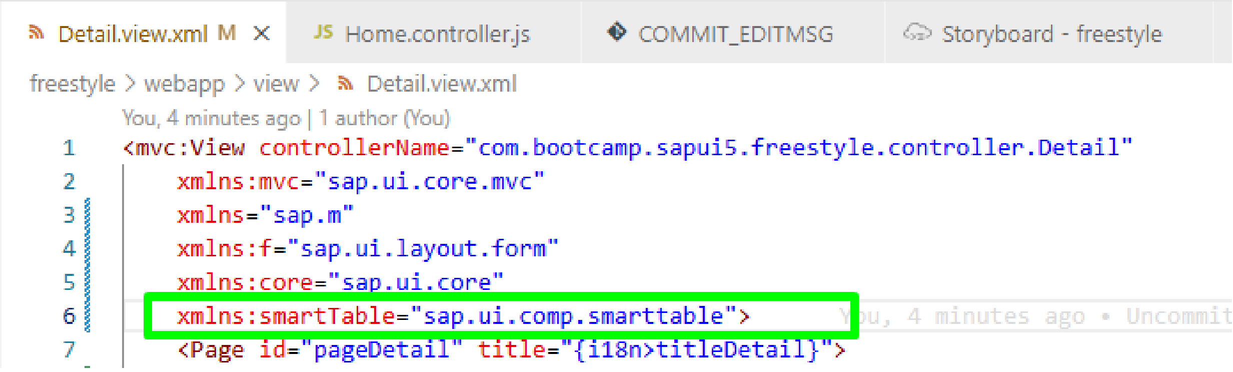


```
    "ProductID": 3,
    "ProductName": "Aniseed Syrup",
    "SupplierID": 1,
    "CategoryID": 2,
    "QuantityPerUnit": "12 - 550 ml bottles",
    "UnitPrice": "10.0000",
    "UnitsInStock": 13,
    "UnitsOnOrder": 70,
    "ReorderLevel": 25,
    "Discontinued": false
```


Detail.view.xml M
Home.controller.js
COMMIT_EDITMSG
Storyboard - freestyle
freestyle > webapp > view > Detail.view.xml
You, a minute ago | 1 author (You)
You, a few seconds ago • Uncommitted changes

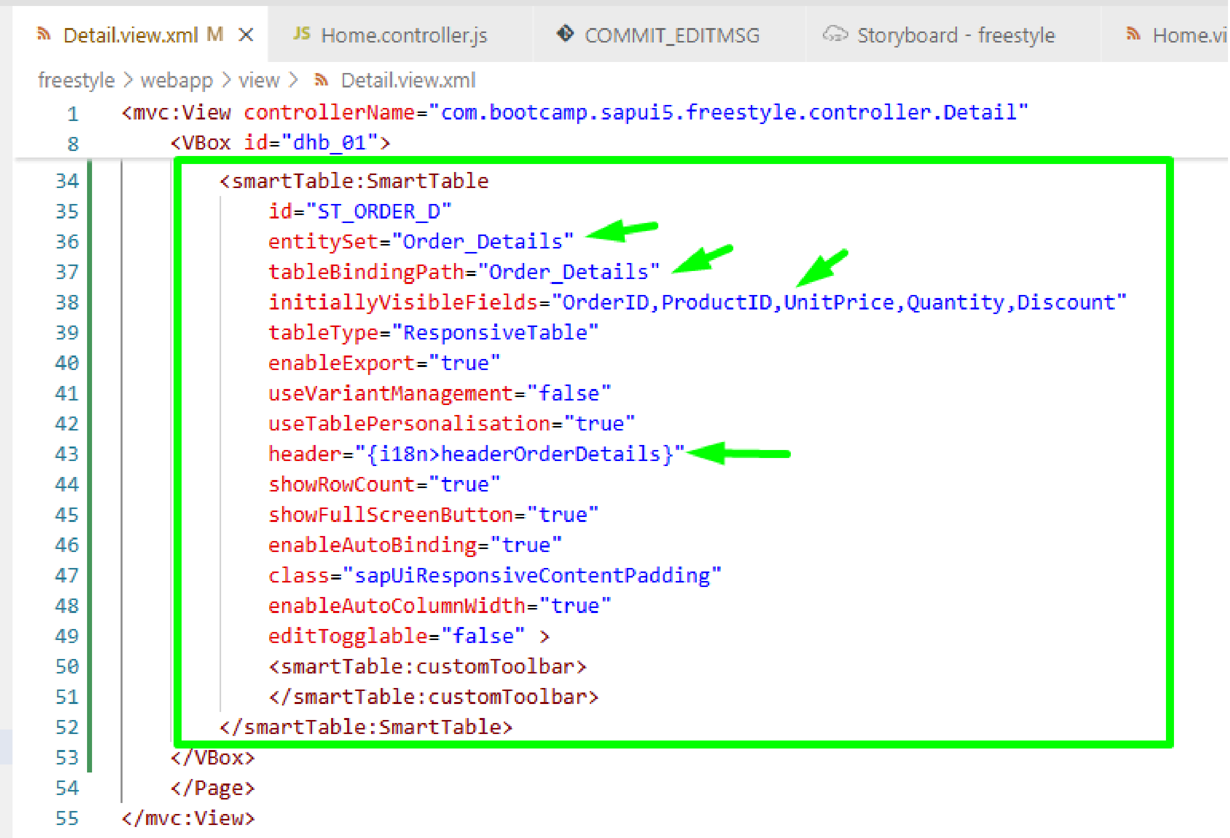
```xml
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
    xmlns:mvc="sap.ui.core.mvc"
    xmlns="sap.m"
    xmlns:f="sap.ui.layout.form"
    xmlns:core="sap.ui.core"
    xmlns:smartTable="sap.ui.comp.smarttable">
    <Page id="pageDetail" title="{i18n>titleDetail}">
    <VBox id="dhb_01">
        <f:SimpleForm id="SimpleFormDisplay354"
            editable="false"
            layout="ResponsiveGridLayout"
            title="{i18n>Information}"
            labelSpanXL="3" labelSpanL="3"
            labelSpanM="3" labelSpanS="12"
            adjustLabelSpan="false" emptySpanXL="4"
            emptySpanL="4" emptySpanM="4" emptySpanS="0"
            columnsXL="1" columnsL="1" columnsM="1"
            singleContainerFullSize="false" >
            <f:content>
                <Label id="ld_01" text="{i18n>ProductName}" />
                <Text id="nameText" text="{ProductName}" />

                <Label id="ld_02" text="{i18n>QuantityPerUnit}" />
                <Text id="td_01" text="{Street} {QuantityPerUnit}" />

                <Label id="ld_03" text="{i18n>UnitPrice}" />
                <Text id="td_02" text="{UnitPrice}" />

                <Label id="ld_04" text="{i18n>UnitsInStock}" />
                <Text id="countryText" text="{UnitsInStock}" />
            </f:content>
        </f:SimpleForm>
```

Detalle de Pedidos:


Detail.view.xml M ×
Home.controller.js
COMMIT_EDITMSG
Storyboard - freestyle
freestyle > webapp > view > Detail.view.xml
You, 4 minutes ago | 1 author (You)
You, 4 minutes ago • Uncommit

```xml
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
    xmlns:mvc="sap.ui.core.mvc"
    xmlns="sap.m"
    xmlns:f="sap.ui.layout.form"
    xmlns:core="sap.ui.core"
    xmlns:smartTable="sap.ui.comp.smarttable">
    <Page id="pageDetail" title="{i18n>titleDetail}">
```

Usamos un control SmartTable el cual se va a explicar con más detalle en las próximas sesiones pero básicamente lo que hacemos en este punto es asignarle el BindingPath que en este caso es el Expand que realizamos en la función **_onObjectMatched** (expand: "Order_Details") y también el entitySet(la cual contiene el listado de campos de la entidad) y en la propiedad **initiallyVisibleFields** asignamos el conjunto de campos por defecto que queremos visualizar.



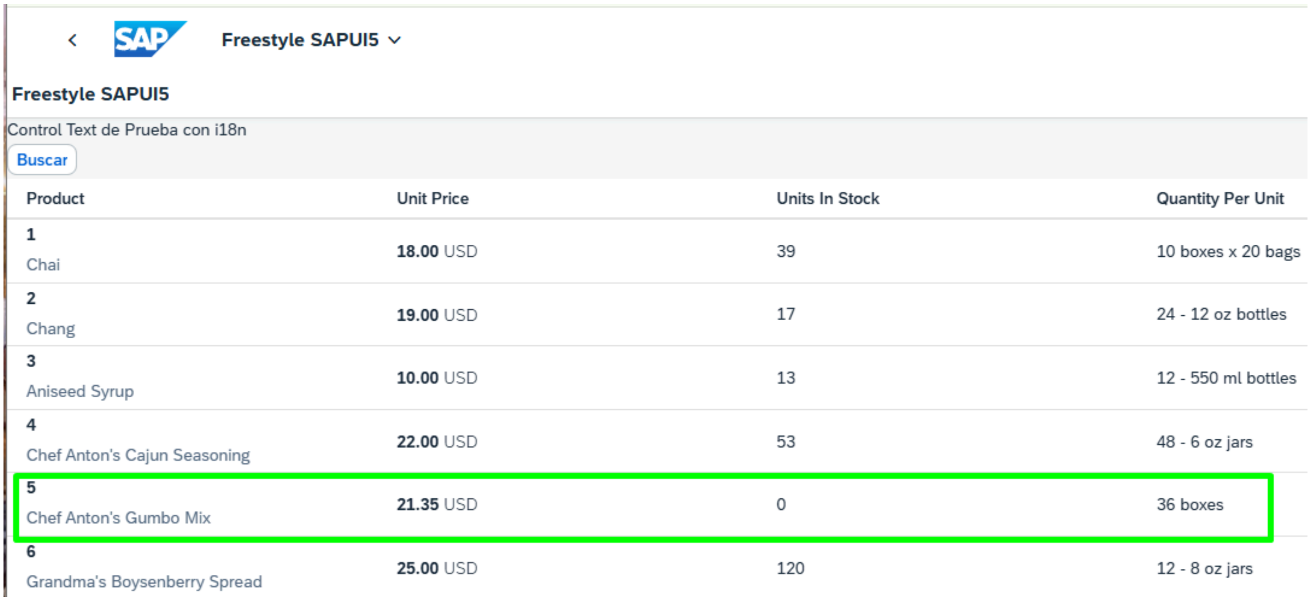
```xml
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
    <VBox id="dhb_01">
        <smartTable:SmartTable
            id="ST_ORDER_D"
            entitySet="Order_Details"
            tableBindingPath="Order_Details"
            initiallyVisibleFields="OrderID,ProductID,UnitPrice,Quantity,Discount"
            tableType="ResponsiveTable"
            enableExport="true"
            useVariantManagement="false"
            useTablePersonalisation="true"
            header="{i18n>headerOrderDetails}"
            showRowCount="true"
            showFullScreenButton="true"
            enableAutoBinding="true"
            class="sapUiResponsiveContentPadding"
            enableAutoColumnWidth="true"
            editTogglable="false" >
            <smartTable:customToolbar>
            </smartTable:customToolbar>
        </smartTable:SmartTable>
    </VBox>
    </Page>
</mvc:View>
```

JavaScript

```
<mvc:View controllerName="com.bootcamp.sapui5.freestyle.controller.Detail"
```

```
    xmlns:mvc="sap.ui.core.mvc"
    xmlns="sap.m"
    xmlns:f="sap.ui.layout.form"
    xmlns:core="sap.ui.core"
    xmlns:smartTable="sap.ui.comp.smarttable">
    <Page id="pageDetail" title="{i18n>titleDetail}">
    <VBox id="dhb_01">
        <f:SimpleForm id="SimpleFormDisplay354"
            editable="false"
            layout="ResponsiveGridLayout"
            title="{i18n>Information}"
            labelSpanXL="3" labelSpanL="3"
            labelSpanM="3" labelSpanS="12"
            adjustLabelSpan="false" emptySpanXL="4"
            emptySpanL="4" emptySpanM="4" emptySpanS="0"
            columnsXL="1" columnsL="1" columnsM="1"
            singleContainerFullSize="false" >
            <f:content>
                <Label id="ld_01" text="{i18n>ProductName}" />
                <Text id="nameText" text="{ProductName}" />

                <Label id="ld_02" text="{i18n>QuantityPerUnit}" />
                <Text id="td_01" text="{Street} {QuantityPerUnit}" />

                <Label id="ld_03" text="{i18n>UnitPrice}" />
                <Text id="td_02" text="{UnitPrice}" />

                <Label id="ld_04" text="{i18n>UnitsInStock}" />
                <Text id="countryText" text="{UnitsInStock}" />
            </f:content>
        </f:SimpleForm>

        <smartTable:SmartTable
            id="ST_ORDER_D"
            entitySet="Order_Details"
            tableBindingPath="Order_Details"

initiallyVisibleFields="OrderID,ProductID,UnitPrice,Quantity,Discount"
            tableType="ResponsiveTable"
            enableExport="true"
            useVariantManagement="false"
            useTablePersonalisation="true"
            header="{i18n>headerOrderDetails}"
            showRowCount="true"
            showFullScreenButton="true"
            enableAutoBinding="true"
            class="sapUiResponsiveContentPadding"
            enableAutoColumnWidth="true"
            editTogglable="false" >
            <smartTable:customToolbar>
            </smartTable:customToolbar>
        </smartTable:SmartTable>
    </VBox>
    </Page>
</mvc:View>
```

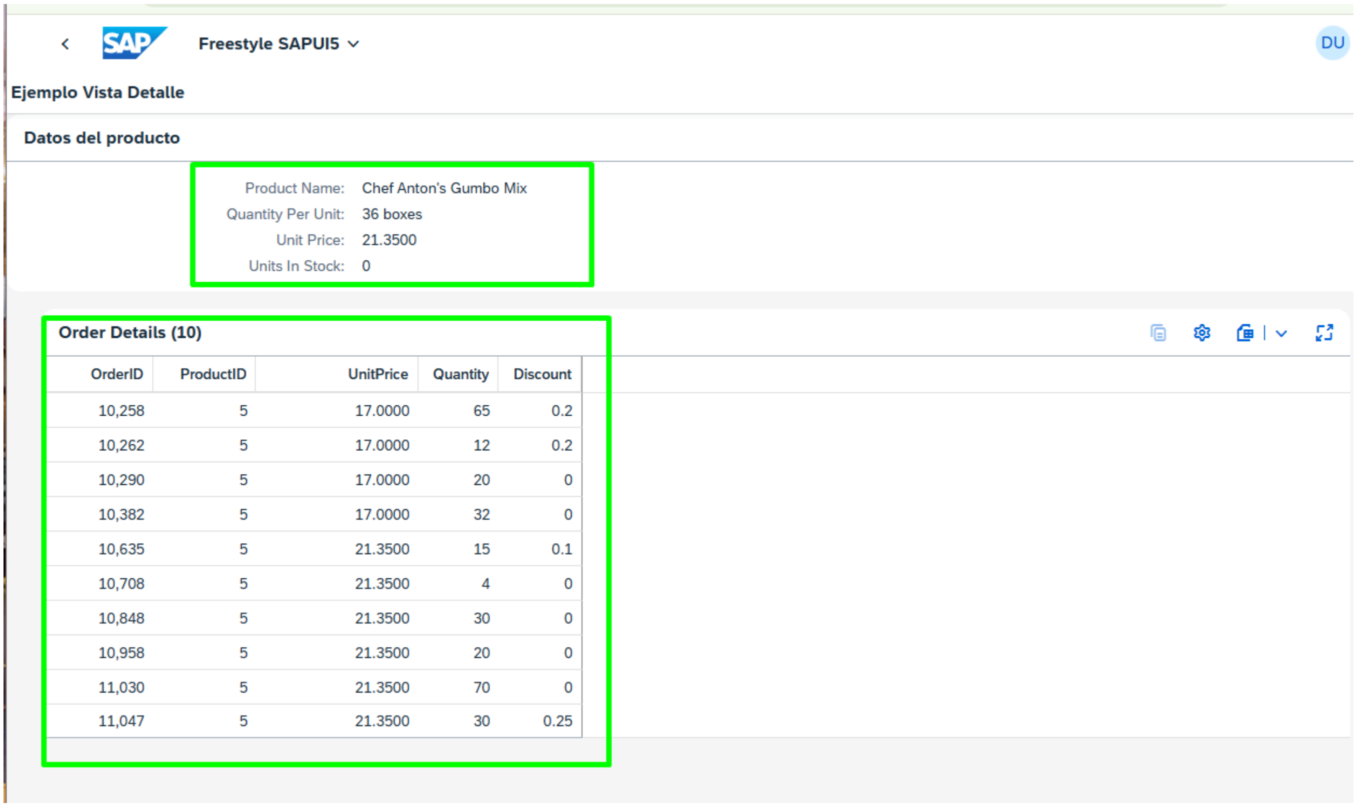
Ejecutamos la aplicación y se nos debe mostrar de la siguiente manera:



Freestyle SAPUI5

Control Text de Prueba con i18n

Product	Unit Price	Units In Stock	Quantity Per Unit
1 Chai	18.00 USD	39	10 boxes x 20 bags
2 Chang	19.00 USD	17	24 - 12 oz bottles
3 Aniseed Syrup	10.00 USD	13	12 - 550 ml bottles
4 Chef Anton's Cajun Seasoning	22.00 USD	53	48 - 6 oz jars
5 Chef Anton's Gumbo Mix	21.35 USD	0	36 boxes
6 Grandma's Boysenberry Spread	25.00 USD	120	12 - 8 oz jars



Ejemplo Vista Detalle

Datos del producto

Product Name: Chef Anton's Gumbo Mix
Quantity Per Unit: 36 boxes
Unit Price: 21.3500
Units In Stock: 0

Order Details (10)

OrderID	ProductID	UnitPrice	Quantity	Discount
10,258	5	17.0000	65	0.2
10,262	5	17.0000	12	0.2
10,290	5	17.0000	20	0
10,382	5	17.0000	32	0
10,635	5	21.3500	15	0.1
10,708	5	21.3500	4	0
10,848	5	21.3500	30	0
10,958	5	21.3500	20	0
11,030	5	21.3500	70	0
11,047	5	21.3500	30	0.25