openSAP Evolved Web Apps with SAPUI5

Week 3 Unit 1: Kick-Start Apps with Templates

Exercises

PUBLIC







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WEEK INTRODUCTION

Summary

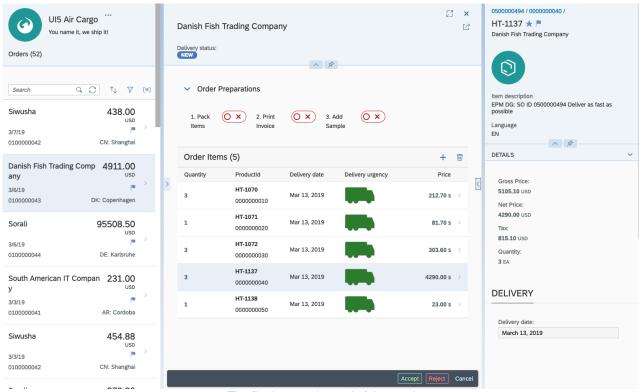
In this week's units we will start to develop a more complex application that allows us to explore some advanced topics around UI5.

We will get acquainted with

- An application project generated from SAP Web IDE
- OData and its internals
- SAP Web IDE's layout editor
- Advanced control topics
- Code reuse pattern in UI5

Preview

Our scenario for this and the upcoming week is to create an order browser for a global player in the transport industry: **UI5 Air cargo**. The app will ease order processing and can finally replace an old legacy application that causes some major hick-ups in the delivery department. They requested to develop an SAP Fiori app with SAPUI5 which helps their employees getting the work done.



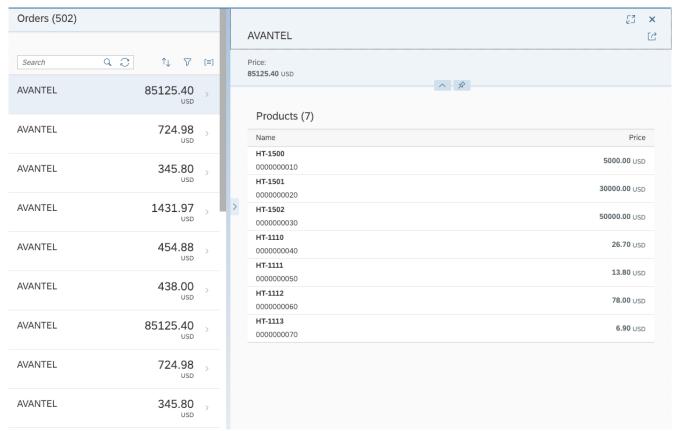
The final app at the end of the week

KICK-START APPS WITH TEMPLATES

Summary

The SAP Fiori Master Detail template in SAP Web IDE allows us to display two SAP Fiori floorplans in one layout. On the master side, a list of sales orders can be displayed, while on the detail side an object page to show sales orders is possible. The <code>sap.f.FlexibleColumnLayout</code> gives the user the ability to resize each column.

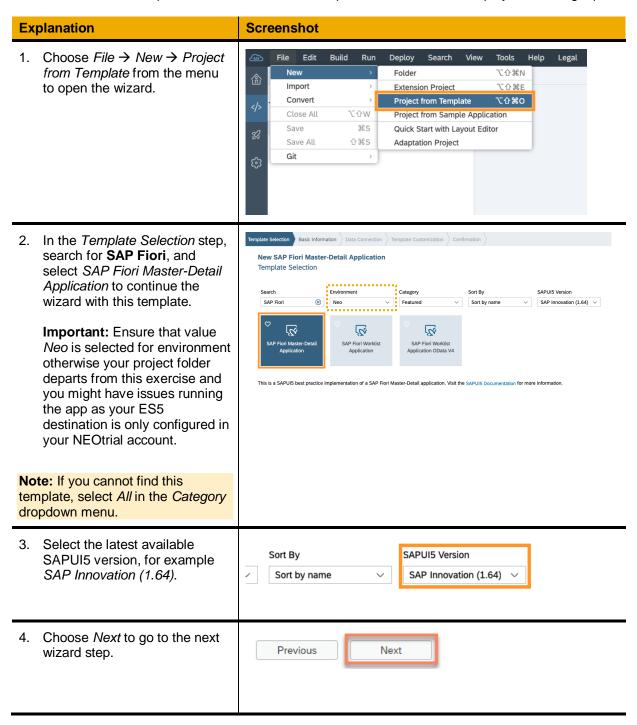
Preview

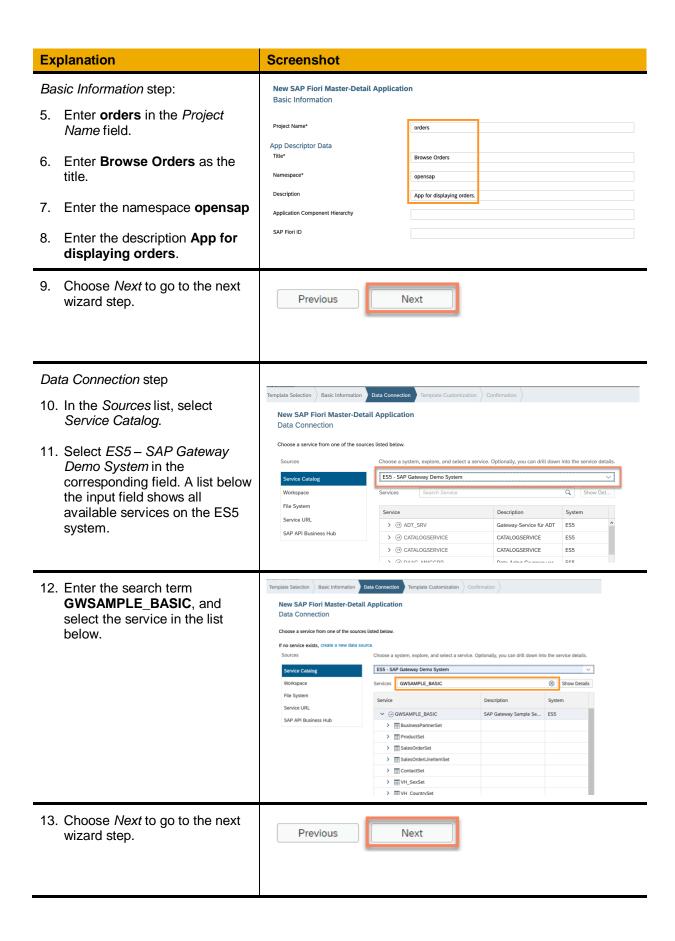


Master-Detail application showing sales orders and the corresponding line items

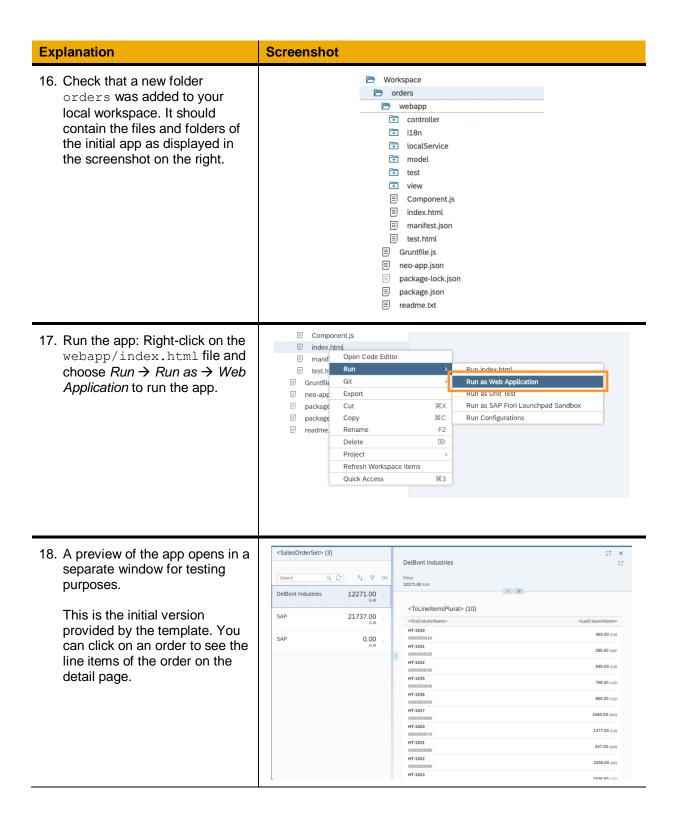
Create an app from the "Master-Detail" Template

The first step we take in developing our new application is to generate the application project from the Master-Detail template in SAP Web IDE. During generation, we will also connect to an OData service. Based on the service, we will map the available data to our template, so that it will be displayed in the right places.





Explanation	Screenshot		
Template Customization step	New SAP Fiori Master-Detail Application Template Customization		
14. Enter the following values:	remptate Gastornizatio		
Арр Туре:	Application Scenario	App Type*	Standalone App (optimized for individual deployment) V
Standalone App	Data Binding - Object	Object Collection* Object Collection ID*	SalesOrderSet SalesOrderID
Object Collection: SalesOrderSet		Object Title*	CustomerName
Object Collection ID:		Object Numeric Attribute Object Unit of Measure	NetAmount CurrencyCode
SalesOrderID	Data Binding - Line I	Line Item Collection	ToLineItems
Object Title:		Line Item Collection ID	ItemPosition
CustomerName		Line Item Title	ProductID
Object Numeric Attribute:		Line Item Numeric Attribute	NetAmount
NetAmount		Line Item Unit of Measure	CurrencyCode
Object Unit of Measure: CurrencyCode Line Item Collection: ToLineItems Line Item Collection ID: ItemPosition Line Item Title: ProductID Line Item Numeric Attribute: NetAmount Line Item Unit of Measure: CurrencyCode		features can b	ound information about this be found in our official
15. Choose <i>Finish</i> to end the wizard and generate the app.	Previous	N	ext Finish



Customize Application Texts

A typical activity after generating a template is adjusting it to your scenario. Before we add new features to our application, we adjust the generated texts based on the service entity that we have picked in the wizard.

 Open the webapp/i18n/i18n.prop erties file and analyze the file.

Note:

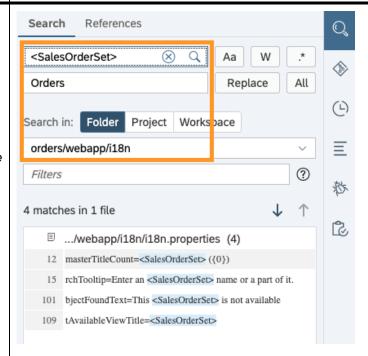
The <SalesOrderSet> placeholder that you can find in several places is the technical name of the service entity and has been generated by the template. We will adjust it to our application scenario.



- Open the search panel in SAP Web IDE by clicking on the search icon in the right panel.
- 3. Enter **<SalesOrderSet>** in the *Find* field.
- 4. Enter **Orders** in the *Replace*
- 5. In the Search in... section select the Folder option.

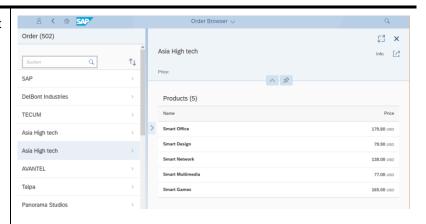
 Make sure that the orders/webapp/i18n folder is selected.
- Click on the magnifying glass and make sure that only occurrences in the translation files are found.
- 7. Then choose *All* to update the translation file. In the confirm dialog select *Replace All*.

Note: If the search and replace feature does not find any occurrences of the search string, leave out the <> from the search string, and delete the occurrences from the file manually.



- Repeat the text replacement for the following fields to improve readability of all captions.
- <SalesOrderSetPlural> with Orders
- <ToLineItemsPlural> with Products
- <FirstColumnName> with
 Name
- <LastColumnName> with
 Price
- <CustomerName> with Customer

Note: Other placeholder texts can be left as they are. We will replace them with other content in the next step.



webapp/i18n/i18n.properties

```
#XTOL: Tooltip for the search field
worklistSearchTooltip=Enter an order name or a part of it.
...
#XBLI: text for a list with no data
masterListNoDataText=No orders are currently available
...
#XBLI: text for a table with no data with filter or search
masterListNoDataWithFilterOrSearchText=No matching orders found
...
#YMSG: The Products not found text is displayed when there is no product with
this id
noObjectFoundText=This order is not available
```

Fine tune some other generated texts to match our application scenario.

Now run the app again by right-clicking on the webapp/index.html file and select $Run \rightarrow Run$ as $\rightarrow Web$ Application. This time you should see the app without placeholders as well as the real service data as shown in the preview.

CHALLENGE YOURSELF: BRAND THE MASTER PAGE

Note: This task does not have a predefined solution and can be solved creatively – dive a bit deeper into the topics and exchange with other learners to make the most out of your learning experience. Good luck!

Summary

Our client UI5 Air Cargo just saw your first explorations and asked you to include their company name and slogan on the master page of the app in order to raise brand awareness. Can you brand the header area according to the client's needs?

Logo: A phoenix Title: UI5 Air Cargo

Claim: You name it, we ship it!

Preview

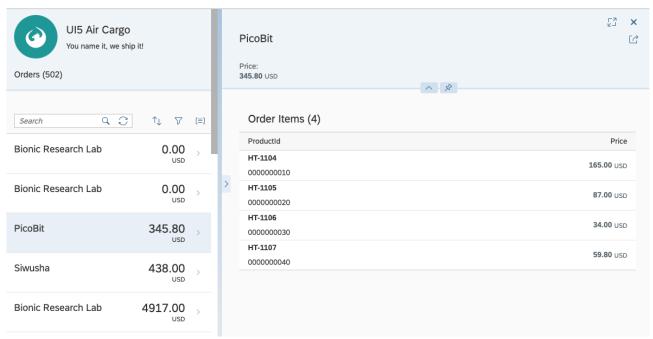


Figure 1 - The master page should be branded for UI5 Air Cargo

Hints:

- sap.f.Avatar seems like an interesting control for displaying small images or icons
- sap.f.SemanticPage offers a variety of aggregations to customize the page appearance
- Layout controls can be nested to achieve any kind of design pattern
- The icon explorer lets you browse the SAPUI5 icon font for any subject

RELATED MATERIAL

- Demo Kit: Get a Trial Account and Access SAP Web IDE
- SAP Fiori Design Guidelines
- Demo Kit: Flexible Column Layout
- Demo Kit: Template Demo Apps

Coding Samples

Any software coding or code lines/strings ("Code") provided in this documentation are only examples and are not intended for use in a production system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules for certain SAP coding. SAP does not warrant the correctness or completeness of the Code provided herein and SAP shall not be liable for errors or damages cause by use of the Code, except where such damages were caused by SAP with intent or with gross negligence.

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