

Excercise 2

Simple UI5 App

Table of Contents

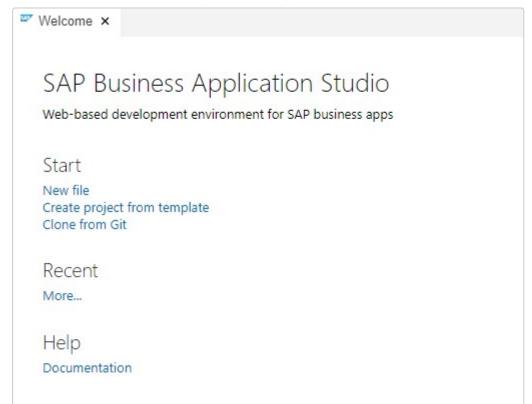
1. Objectives	
2. Step 1	
3. Step 2	
4. Step 3	
5. Step 4	
6. Step 5	6
7. Step 6	
8. Step 7	
9. Step 8	
10. Step 9	
11. Step 10	
12. Run Configuration	
13. The app	
13.1. What is GIT	
14. Change i18n	
15. Changes Master View	
16. 1. Price Unit	
17. 2. Expand Category, Supplier in Controller	
18. Changes Detail View	
19. 1. Add IconTabBar	19
20. 2. Move Table	20
21. 3. Change table	21
22. 4. Add namespace	
23. 5. Add Forms	23
24. 6. Add Header Content	25
25. Add formatter function	26
26. Test Application	27
27 Deployment	28

Chapter 1. Objectives

- Create a simple app with Master Detail wizard
- Create a run configuration & run the app
- Change the app

Chapter 2. Step 1

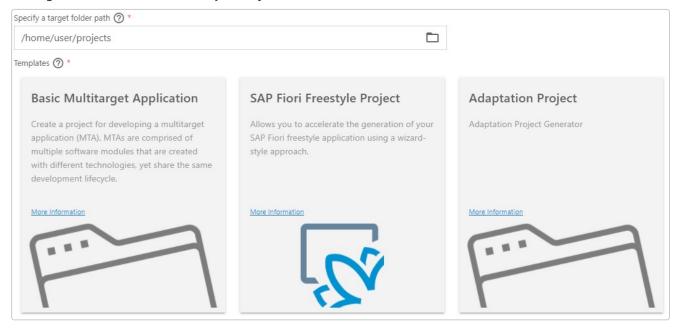
- Create a new project from template
- In Business Application Studo go to Help / Welcome Page
- Choose Start / Create Project from template



Chapter 3. Step 2

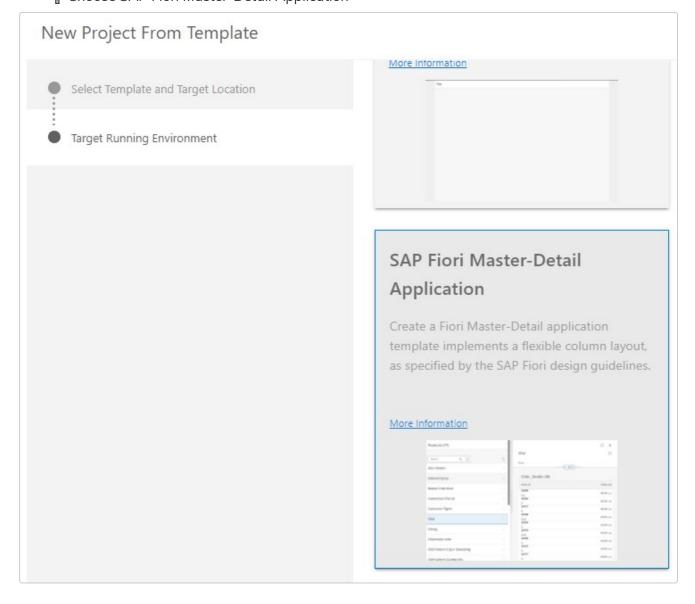
• New Project from template wizzard

Choose SAP Fiori Freestyle Project



Chapter 4. Step 3

New Project from template wizzard
 Choose SAP Fiori Master-Detail Application



Chapter 5. Step 4

• New Project from template wizzard

Give in Project Name

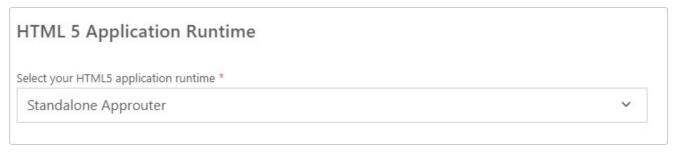
Project Name

Enter a project name

MyDemoApp

Chapter 6. Step 5

- New Project from template wizzard
 - ☐ Choose Standalone Approuter as HTML5 Application Runtime



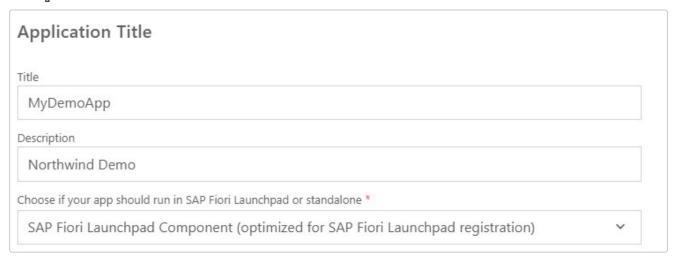
Chapter 7. Step 6

- New Project from template wizzard
 - Basic Attributes
 - Leave default values



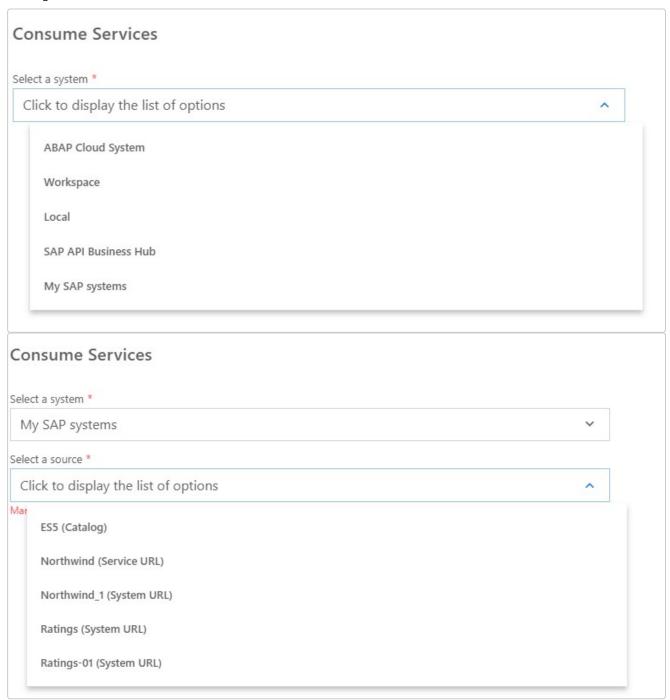
Chapter 8. Step 7

- New Project from template wizzard
 - Add title
 - Leave default values



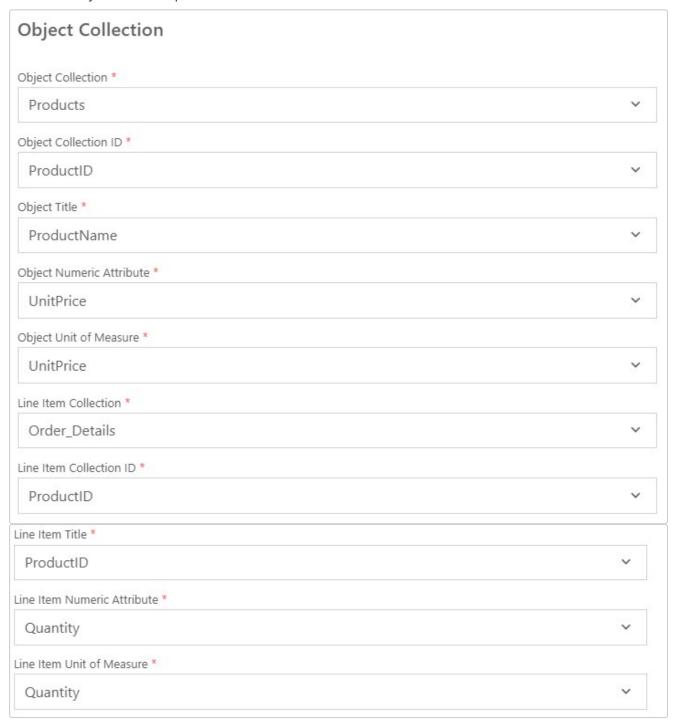
Chapter 9. Step 8

- New Project from template wizzard
 - Choose My SAP Systems as system
 - Choose Northwind as source



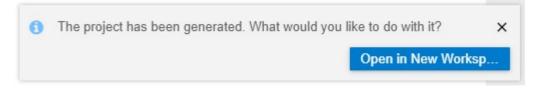
Chapter 10. Step 9

• New Project from template wizzard



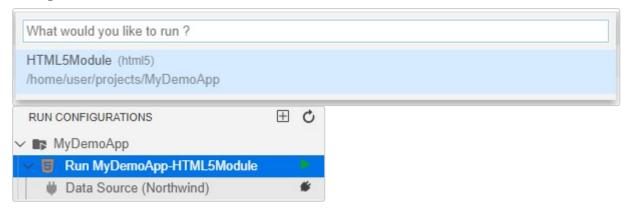
Chapter 11. Step 10

- New Project from template wizzard
 - Choose Open in New Workspace



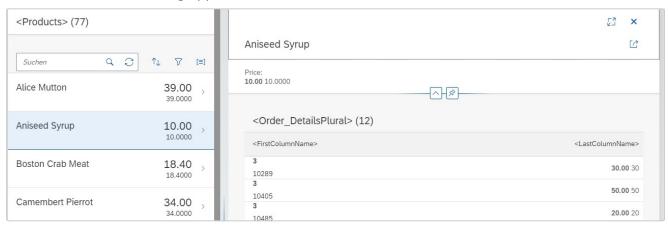
Chapter 12. Run Configuration

- New Project from template wizzard
 - Accept default values
 - Bind the Northwind Service
 - Click Run



Chapter 13. The app

• Now we have a running app



- We have to change a few things -
 - Say something about GIT
 - Descriptions using i18n model
 - I We will add expand to the Products entity in our OData model
 - I We will adjust currency and unit of measure fields
 - We will add some components IconTabFilter, Form
 - We will display a picture from OData servis and create a formatter function

13.1. What is GIT

Git is a distributed version-control system for tracking changes in source code during software development. It is designed for coordinating work among programmers, but it can be used to track changes in any set of files. Its goals include speed, data integrity, and support for distributed, non-linear workflows.

• Modify GIT config

```
git config --global user.email "you@example.com"
git config --global user.name "name surname"
---
```

• Stage changes

```
git add *
```

• Commit with Comment

```
---
git commit -m "initial commit"
---
```

Chapter 14. Change i18n

- i18n stands for internationalization
- Model used to store translations
- SAPUI5 Resource model in manifest.json
- Loaded automatically according to locale settings or Url parameters

 $https://inui.io/sap-ui5-ultimate-guide-internalization-i18n/\ [https://inui.io/sap-ui5-ultimate-guide-internalization-i18n/\]$

*Change the texts in i18n.properties

masterTitleCount	Products
detailLineItemTableNoDataText	No OrderDetails
detailLineItemTableHeading	Order Details
detailLineItemTableHeadingCount	Order Details ({0})
detailLineItemTableIDColumn	Order
detailLineItemTableUnitNumberColumn	Quantity

Chapter 15. Changes Master View

- 1. Price Unit
- 2. Expand Category, Supplier in Controller

Chapter 16. 1. Price Unit

• Change numberUnit to USD in ObjectListItem

```
<items>
    <ObjectListItem
        type="Navigation"
        press=".onSelectionChange"
        title="{ProductName}"
        number="{
            path: 'UnitPrice',
            formatter: '.formatter.currencyValue'
        }"
        numberUnit="USD">
```

Chapter 17. 2. Expand Category, Supplier in Controller

Add parameters object into List tag

```
<List
   id="list"
   width="auto"
   class="sapFDynamicPageAlignContent"
   items="{
      path: '/Products',
      sorter: {
        path: 'ProductName',
            descending: false
      },
      groupHeaderFactory: '.createGroupHeader',
      parameters: {expand:'Category, Supplier'}
}"...>
```

Chapter 18. Changes Detail View

- 1. Add IconTabBar in <semantic:Content>
- 2. Move Table to IconTabFilter Orders
- 3. Change Table
- 4. Add namespace
- 5. Add Forms in IconTabFilter Details
- 6. Add Header Content

Chapter 19. 1. Add IconTabBar

• Add IconTabBar into semantic:content

```
<semantic:content>
   ..
</semantic:content>
```

IconTabBar

Chapter 20. 2. Move Table

• Move Table into

add Table here

• Table

```
<Table
    id="lineItemsList"
    width="auto"
    items="{Order_Details}"
    updateFinished=".onListUpdateFinished"
    noDataText="{i18n>detailLineItemTableNoDataText}"
    busyIndicatorDelay="{detailView>/lineItemTableDelay}">
    <headerToolbar>
        <Toolbar>
            <Title
                id="lineItemsTitle"
                text="{detailView>/lineItemListTitle}"
                titleStyle="H3"
                level="H3"/>
        </Toolbar>
    </headerToolbar>
    <columns>
        <Column>
            <Text text="{i18n>detailLineItemTableIDColumn}"/>
        </Column>
        <Column
            minScreenWidth="Tablet"
            demandPopin="true"
            hAlign="End">
            <Text text="{i18n>detailLineItemTableUnitNumberColumn}"/>
        </Column>
    </columns>
    <items>
        <ColumnListItem>
            <cells>
                <ObjectIdentifier
                    title="{OrderID}"
                    />
                <ObjectNumber
                    number="{
                        path: 'Quantity',
                        formatter: '.formatter.currencyValue'
                    unit="Units"/>
            </cells>
        </ColumnListItem>
    </items>
</Table>
```

Chapter 21. 3. Change table

- Change displayed Units
 - Search in <Table> <items> the element <ObjectNumber> and change the binding for unit from unit="{Quantity}" to unit="Units"
 - Search in <Table> <items> the element <ObjectIdentifier and delete the binding for text text="{OrderID}"

Chapter 22. 4. Add namespace

• Add xmlns:form="sap.ui.layout.form

```
<mvc:View
    controllerName="ns.HTML5Module.controller.Detail"
    xmlns="sap.m"
    xmlns:semantic="sap.f.semantic"
    xmlns:footerbar="sap.ushell.ui.footerbar"
    xmlns:mvc="sap.ui.core.mvc"
    xmlns:form="sap.ui.layout.form">
```

Chapter 23. 5. Add Forms

• Add into IconTabBar Filter

Forms

```
<form:Form id="FormDetails"</pre>
   editable="false">
    <form:layout>
        <form:ResponsiveGridLayout</pre>
            labelSpanXL="4"
            labelSpanL="3"
            labelSpanM="4"
            labelSpanS="12"
            adjustLabelSpan="false"
            emptySpanXL="0"
            emptySpanL="4"
            emptySpanM="0"
            emptySpanS="0"
            columnsXL="2"
            columnsL="1"
            columnsM="1"
            singleContainerFullSize="false" />
   </form:layout>
    <form:formContainers>
        <form:FormContainer title="Details">
            <form:formElements>
                <form:FormElement label="Unit price">
                    <form:fields>
                         <Text text="{UnitPrice}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Quantity per Unit">
                    <form:fields>
                         <Text text="{QuantityPerUnit}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Units in Stock">
                    <form:fields>
                         <Text text="{UnitsInStock}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Units on Order">
                    <form:fields>
                         <Text text="{UnitsOnOrder}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Reorder Level">
                    <form:fields>
                         <Text text="{ReorderLevel}" />
                    </form:fields>
                </form:FormElement>
            </form:formElements>
        </form:FormContainer>
        <form:FormContainer title="Supplier">
            <form:formElements>
```

```
<form:FormElement label="Full name of the contact">
                    <form:fields>
                        <Text text="{Supplier/CompanyName}" id="nameText" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Street and number">
                    <form:fields>
                        <Text text="{Supplier/Address}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="ZIP Code and City">
                    <form:fields>
                        <Text text="{Supplier/PostalCode} {Supplier/City}" />
                    </form:fields>
                </form:FormElement>
                <form:FormElement label="Country">
                    <form:fields>
                        <Text text="{Supplier/Country}" id="countryText" />
                    </form:fields>
                </form:FormElement>
            </form:formElements>
        </form:FormContainer>
   </form:formContainers>
</form:Form>
```

Chapter 24. 6. Add Header Content

• in semantic:headerContent add ObjectHeader

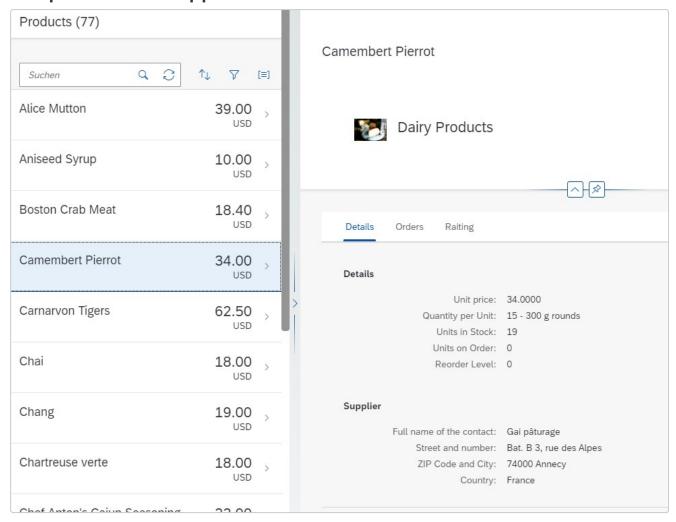
```
<ObjectHeader
  icon="{path: 'Category/Picture', formatter: '.formatter.formatPicture' }"
  title="{Category/CategoryName}">
</ObjectHeader>
```

Chapter 25. Add formatter function

• formatter: '.formatter.formatPicture'

```
formatPicture : function (sValue) {
    if (sValue) {
       var sTrimmedData = sValue.substr(104);
       return "data:image/bmp;base64," + sTrimmedData;
    }
}
```

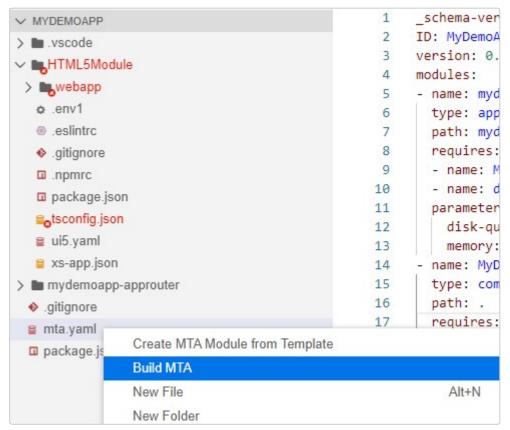
Chapter 26. Test Application



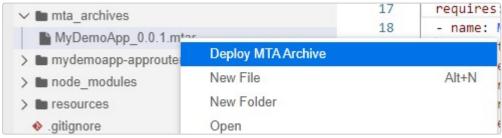
Chapter 27. Deployment

• Deployment descriptor - mta.yaml

Right click on mta.yaml and choose build MTA



• After succesfull build a new directory mta_archives is created with our mtar archive



 A popup on the top of the window will appear and you will have to log into your cloud foundry account

