



Evolved Web Apps with SAPUI5 - Week 05

Unit 01: Building Apps with SAP Fiori Elements

Steps to Start Using SAP Fiori Elements

1. Know the [SAP Fiori paradigms](#)

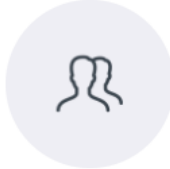
2. Good to know [SAPUI5](#) (optional)

3. Know "[What is \(supported by\) Fiori Elements?](#)"

4. Understand Fiori Elements technology


5. Know how to use Fiori Elements

6. Prototyping...



ROLE - BASED

Designed for you, your needs, and how you work

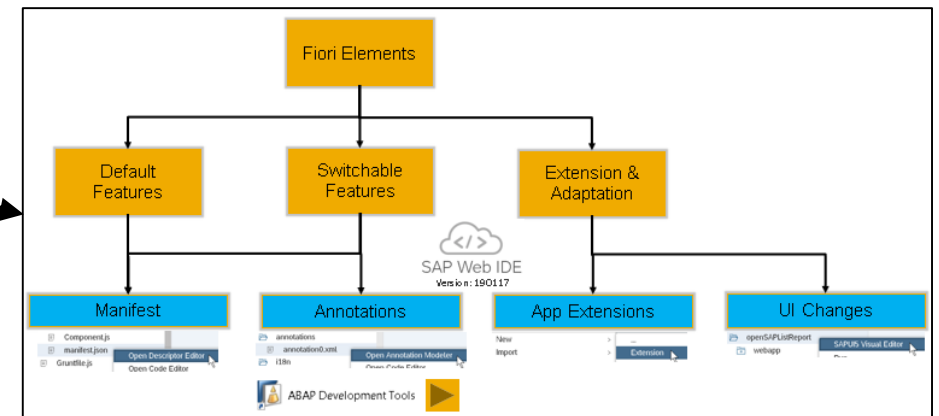
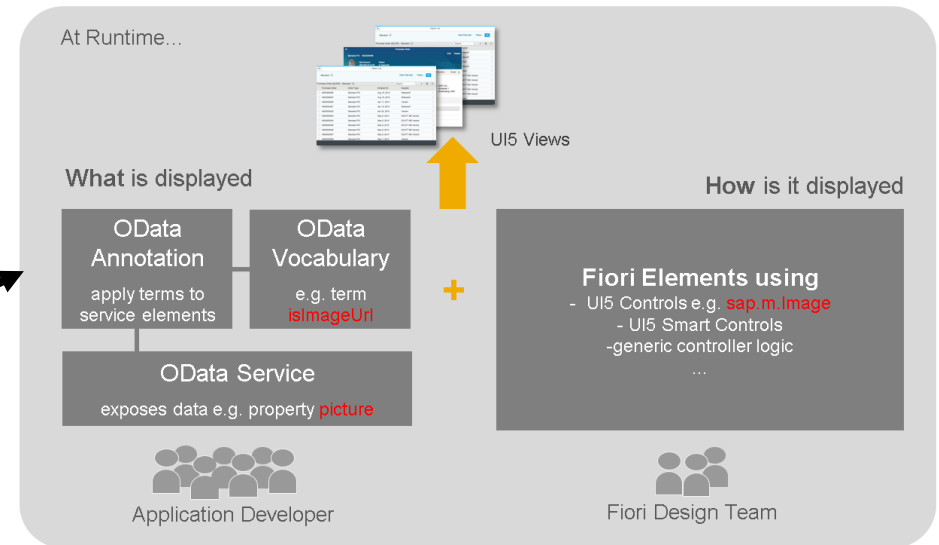


SIMPLE

Includes only what is necessary

ADAPTIVE,
COHERENT,
DELIGHTFUL, ...

"...away from monolithic ERP solutions towards light-weight apps tailored to the users' tasks." [source]

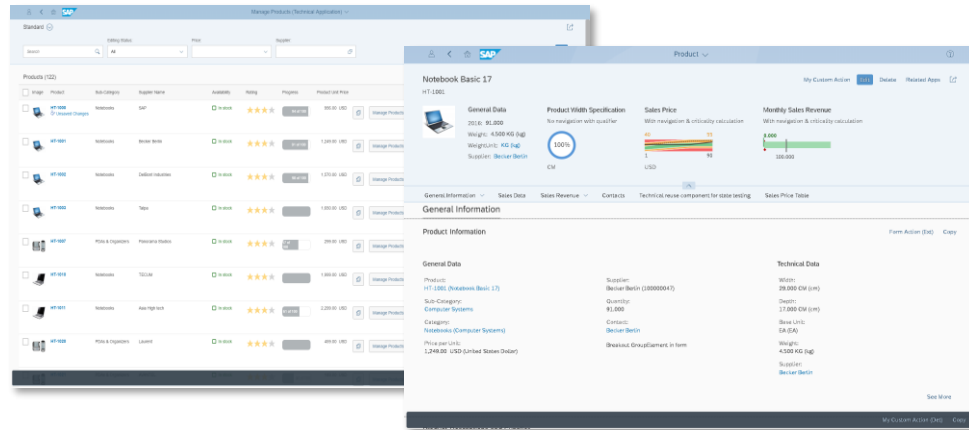


SAP Fiori Elements Floorplans

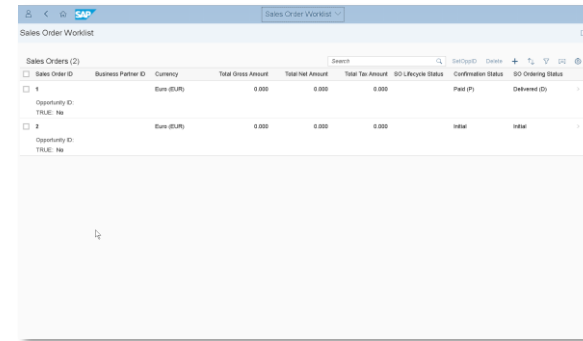
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- 2
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- 6

What is Fiori Elements?

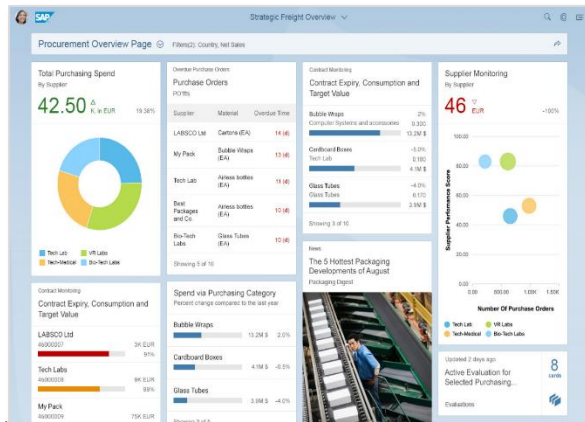
List Report and Object Page



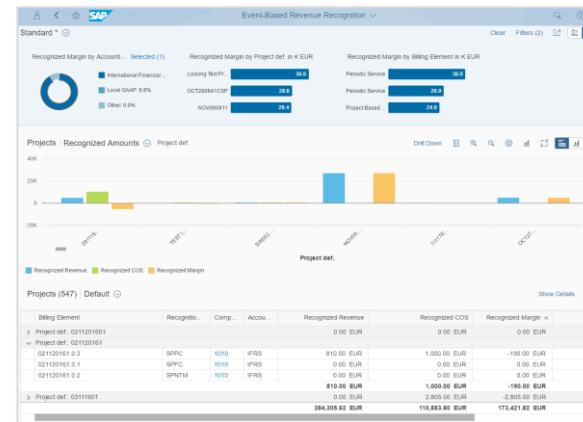
Worklist



Overview Page



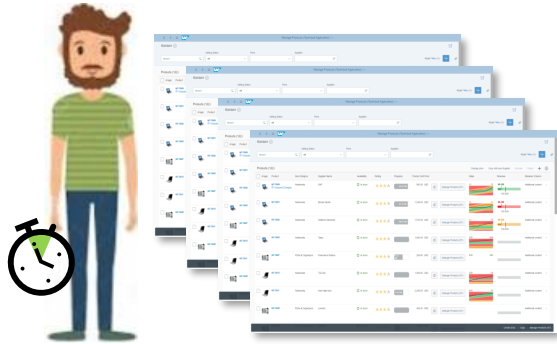
Analytical List Page



Why use SAP Fiori Elements?

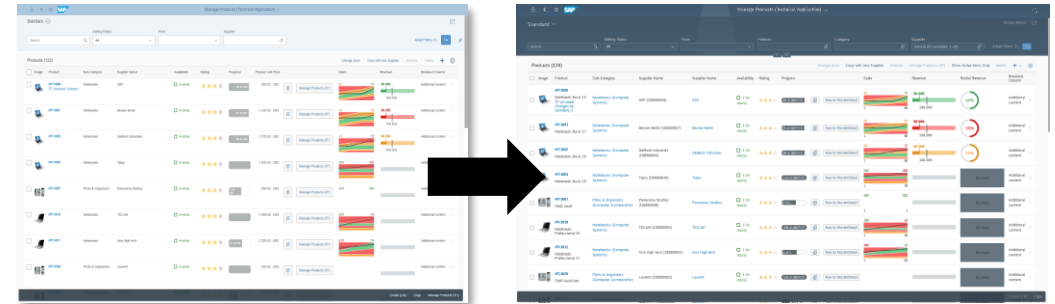
What is Fiori Elements?

development efficiency

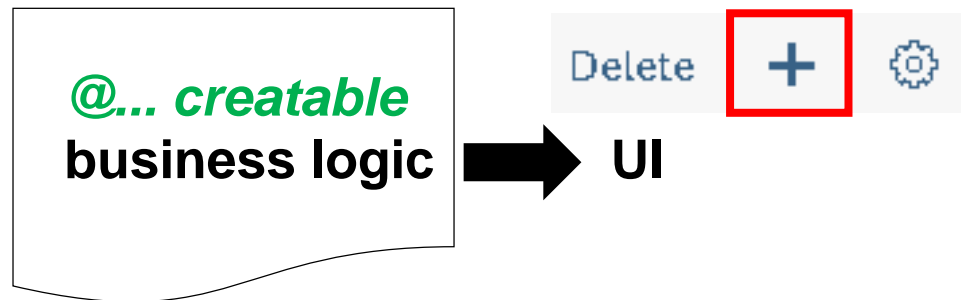


consistency and UI evolution

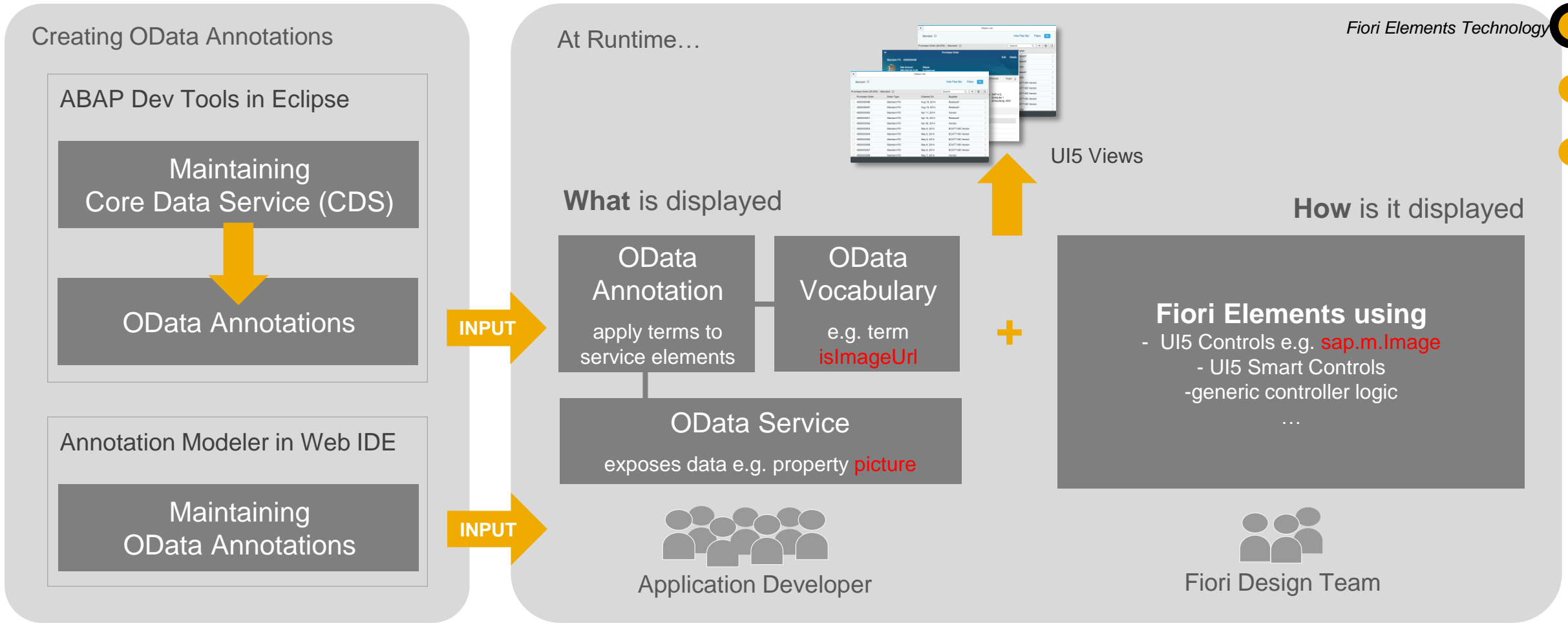
Delete Delete Delete Delete
Delete Delete **remove** Delete
Delete Delete Delete Delete



decoupling of business logic and UI



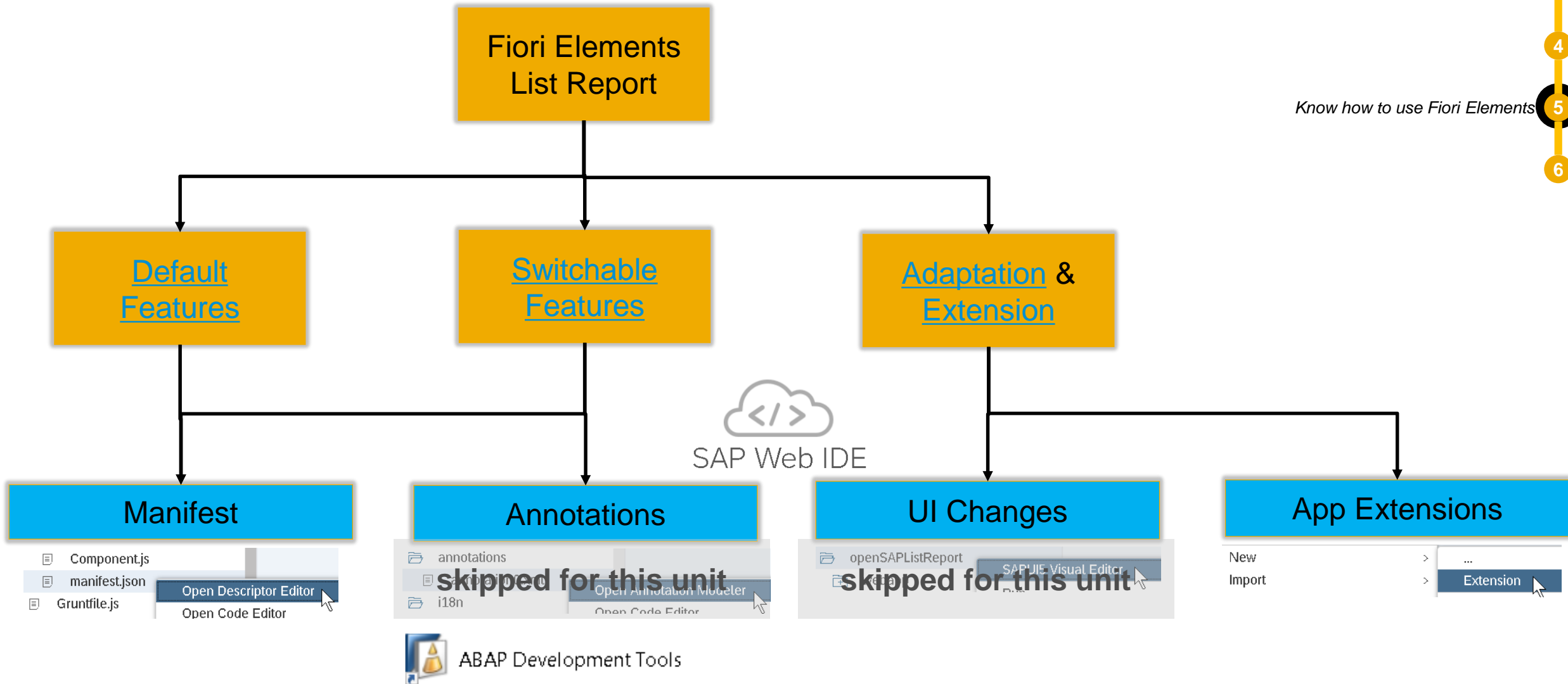
Fiori Elements Technology



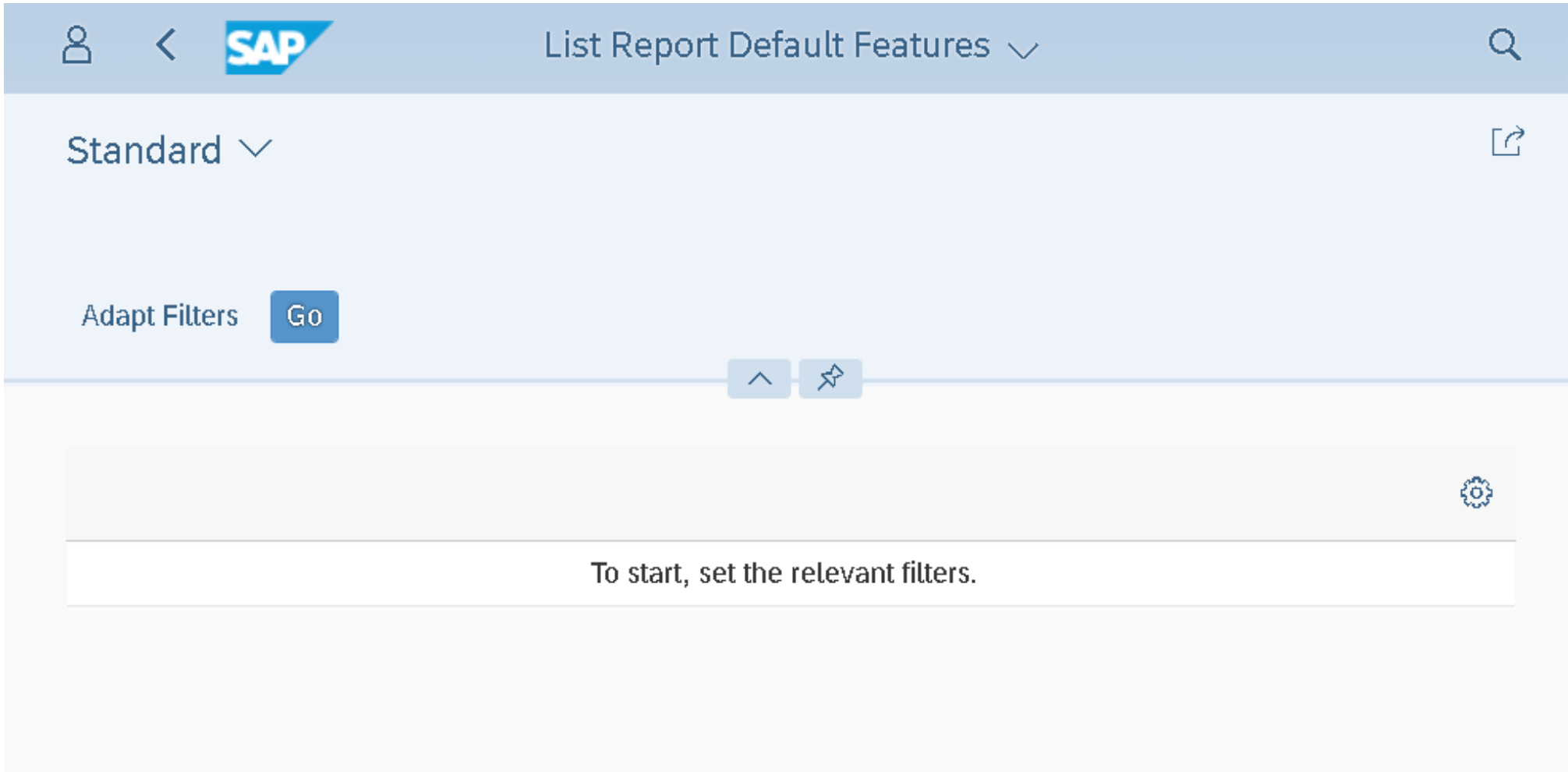
How to Use Fiori Elements on example List Report

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Know how to use Fiori Elements



Default Feature: Minimal List Report app



Know how to use Fiori Elements



Diagnostics Tool and the section “SAP Fiori Elements”

The screenshot displays the SAP Fiori Diagnostics tool interface. The top navigation bar shows 'Manage Products (Technical Application)' and a search icon. Below this, there are filter fields for 'Editing Status' (set to 'All') and 'Product'. A 'Sub-Category' field and a 'Supplier' field are also present, along with an 'Adapt Filters (1)' button and a 'Go' button. The main content area shows a list of products under the heading 'Products (16)'. The list includes columns for 'Image', 'Product', and 'Availability'. Two products are visible: 'HT-1022 Stack Draft' and 'HT-1000 Notebook Basic 15', both with an availability of '3 (In stock)'. The right sidebar contains a 'Diagnostics' menu with options like 'Technical Information', 'Interaction', 'SAP Fiori launchpad configuration', 'Flexibility', and 'SAP Fiori Elements' (which is expanded). Below the menu, there is a 'Time of Retrieval' section and a table of system information.

Image	Product	Availability
	HT-1022 Stack Draft	3 (In stock)
	HT-1000 Notebook Basic 15	3 (In stock)
	HT-1002	

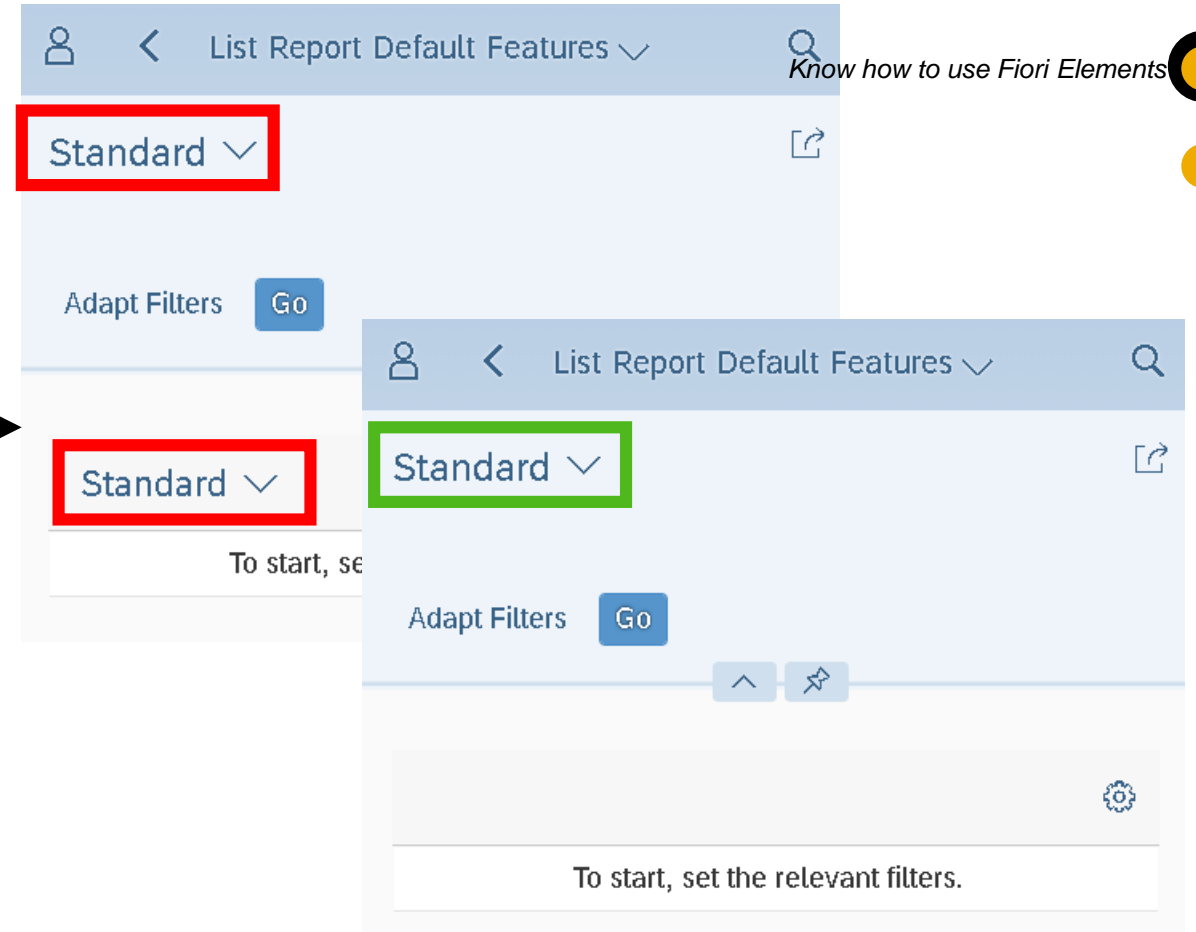
Property	Value
OpenUI5 Version	1.63.1 (built at 3/7/19)
Application URL	#masterDetail-display
Manifest	../manifest.json
Application ID	STTA_MP
Application Component (ACH)	BC-SRV-NWD-ST
Floorplan Component (ACH)	CA-UI5-ST (sap.suite.ui.generic.template.ListReport)
mainService	
OData Metadata	/sap/opu/odata/sap/STTA_PROD_MAN/\$metadata
Local Annotation (Prio. 1)	annotations/annotations.xml
Local Annotation (Prio. 2)	localService/STTA_PROD_MAN_ANNO_MDL.xml

press **“CTRL-ALT-SHIFT-S”**

Switchable Feature with Manifest: Example - Smart Variant Management

```
"sap.ui.generic.app": {
  "_version": "1.3.0",
  "pages": {
    "ListReport|STTA_C_MP_Product": {
      "entitySet": "STTA_C_MP_Product",
      "component": {
        "name": "sap.suite.ui.generic.template.ListReport",
        "list": true,
        "settings": {
          "smartVariantManagement": false true
        }
      }
    }
  }
}
```

Manifest snippet



[Enabling Variant Management](#)

Switchable Feature with Annotations: Example - Field Group in Form

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Know how to use Fiori Elements

```
@UI.fieldGroup: [  
  { qualifier: 'AdminData', position: 10 }  
]  
Created_at;  
@UI.fieldGroup: [  
  { qualifier: 'AdminData', position: 20 }  
]  
Created_by;
```

```
<Annotations Target="SEPMRA_PROD_MAN.SEPMRA_C_PD_ProductType">  
  <Annotation Term="com.sap.vocabularies.UI.v1.FieldGroup"  
    Qualifier="AdminData">  
    <Record>  
      <PropertyValue Property="Label" String="Admin Data" />  
      <PropertyValue Property="Data">  
        <Collection>  
          <Record Type="com.sap.vocabularies.UI.v1.DataField">  
            <PropertyValue Property="Value" Path="Created_at" />  
          </Record>  
          <Record Type="com.sap.vocabularies.UI.v1.DataField">  
            <PropertyValue Property="Value" Path="Created_by" />  
          </Record>  
        </Collection>  
      </PropertyValue>  
    </Record>  
  </Annotation>  
</Annotations>
```

CDS Annotations

OData Annotations in XML

500000581

General Information Sales Order Items

Basic Data

Customer:
Pateu (10000019)

Overall Status:
Paid (P)

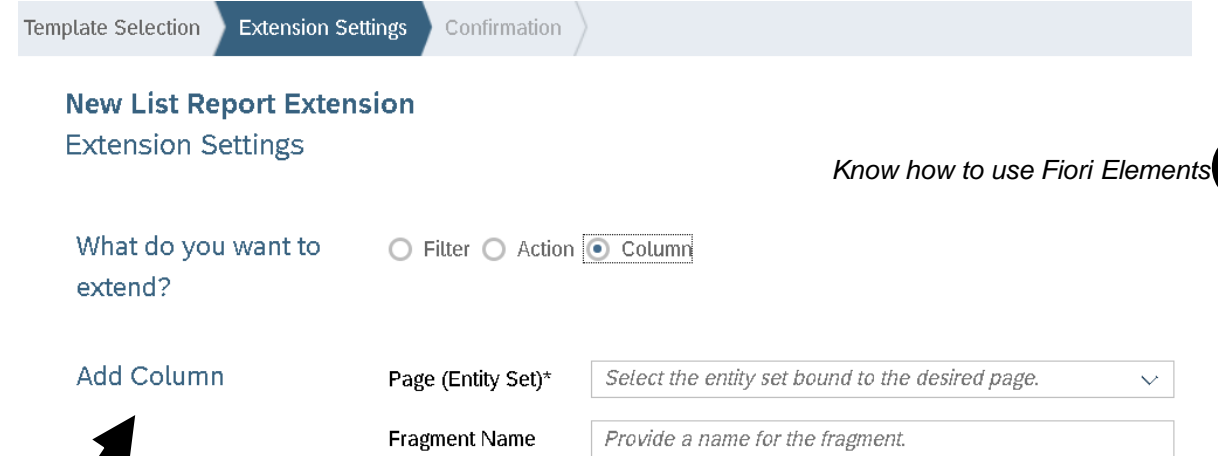
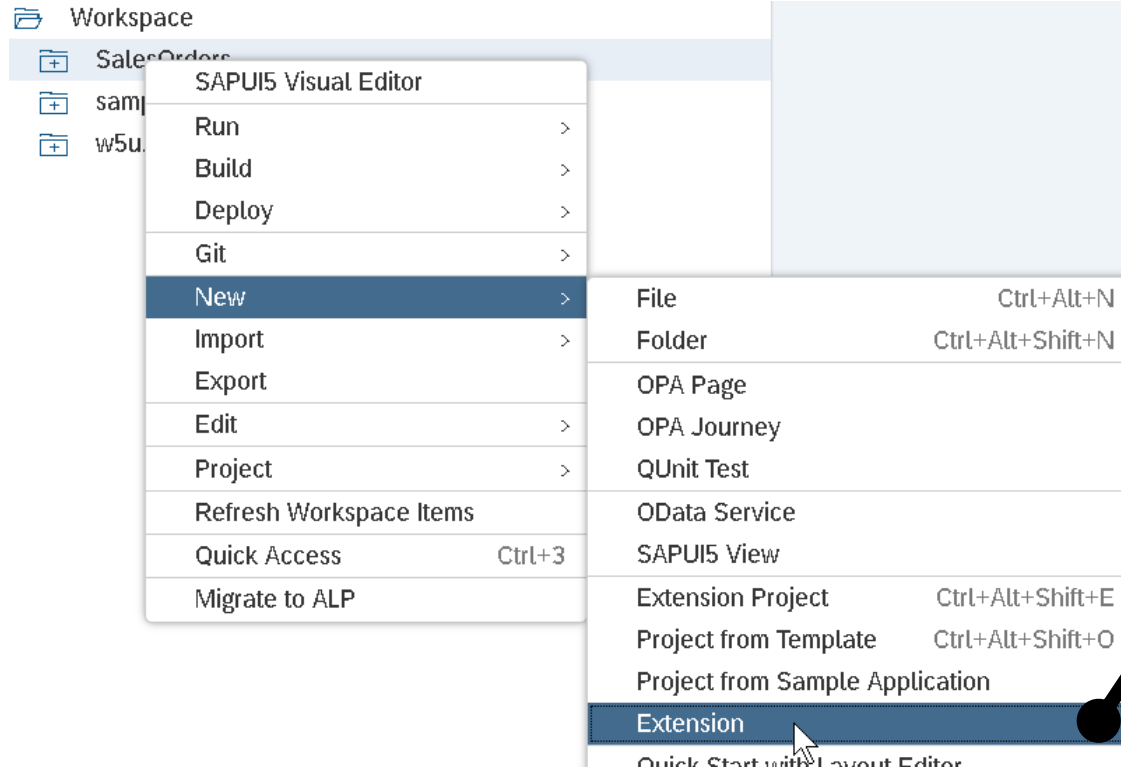
Admin Data

Created At:
Feb 6, 2017, 10:36:22 AM

Created By:
DEV555-YXX

[Defining and Adapting Sections](#)

App Extensions



[Using the Extension Wizard](#) + [Extending Generated Apps Using App Extensions](#)



Prototyping...

1. Use case, roles, mock up & data modeling discussions
2. Prepare the OData Service
 - using mock data or
 - using real backend
3. Create a Fiori elements project using the WEB IDE wizard
4. Run the app with default features first and add switchable features
5. Iterative finetuning steps

➔ very fast, we get a first prototype and from here take it forward



Prototyping...



Wrap-Up Links

- [sapUI5 technology](#)
- [Fiori Elements technology](#)
 - „[default floorplan features](#)“
 - [Adding a Field Group to an Object Page with SAP Fiori Elements](#)
 - [Read Before Extending a Generated App](#)
 - [Adapting the UI: List Report and Object Page](#)
- [Design Guidelines](#)
 - [List Report Floorplan](#)
- [Fiori elements on SAP Community](#)
- For learning CDS annotations
 - SAP Help Portal
 - courses available - for example
 - from SAP Education [HOS4D: Hands-on Introduction to Application Programming on SAP S/4HANA](#)
 - from openSAP “[A4H1: ABAP Development for SAP HANA](#)”