

UX100

SAP Fiori – Foundation

EXERCISES AND SOLUTIONS

Course Version: 20

Course Duration: 8 Hours 5 Minutes

SAP Copyrights, Trademarks and Disclaimers

© 2020 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://global12.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

This course may have been machine translated and may contain grammatical errors or inaccuracies.








These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

Contents

Unit 1: End-User Perspective

1	Exercise 1: Explore SAP Fiori
4	Exercise 2: Operate SAP Fiori Launchpad
7	Exercise 3: Personalize the SAP Fiori Launchpad
10	Exercise 4: Operate SAP Fiori Search

Unit 2: Technology

13	Exercise 5: Operate SAP Web IDE
16	Exercise 6: Operate SAP Gateway
19	Exercise 7: Operate SAP Fiori Apps Reference Library
23	Exercise 8: Use SAP Fiori App Recommendations

Unit 3: Architecture

26	Exercise 9: Debug ABAP Transactions in SAP Business Client
29	Exercise 10: Debug Transactional Apps
32	Exercise 11: Test HANA XS OData Services
35	Exercise 12: Test HANA Search Connector
38	Exercise 13: Test ABAP CDS Views

Unit 4: Configuration

41	Exercise 14: Create SAP Fiori Groups
45	Exercise 15: Copy SAP Fiori Catalogs
49	Exercise 16: Reference Tiles and Target Mappings
53	Exercise 17: Create LPD_CUST Target Mappings
59	Exercise 18: Create SAPUI5 Target Mappings
63	Exercise 19: Create Web Dynpro Target Mappings
67	Exercise 20: Create Transaction Target Mappings
71	Exercise 21: Create Back-End Catalogs
76	Exercise 22: Deactivate Personalization
79	Exercise 23: Enable SAP Fiori Smart Business
82	Exercise 24: Model SAP Fiori KPI Apps

Unit 5: Adaptation

86	Exercise 25: Create SAP Fiori Themes
89	Exercise 26: Create an SAP Screen Personas Theme and Flavor
93	Exercise 27: Adapt SAP Fiori at Runtime
97	Exercise 28: Activate a Plugin for the SAP Fiori Launchpad

Unit 6: Mobility

100	Exercise 29: Test the SAP Fiori Client
103	Exercise 30: Test the SAP Fiori Mentor

Unit 7: Integration

106	Exercise 31: Test SAP Workflow Integration of SAP Fiori
110	Exercise 32: Operate SAP Fiori Standalone
113	Exercise 33: Operate SAP Cloud Platform Portal

Unit 8: Further Information

No exercises

Unit 1

Exercise 1

Explore SAP Fiori

Business Example

You want to test the SAP Fiori launchpad of the SAP Gateway Demo Server ES5.



Note:

This exercise requires an account in the SAP Gateway Demo Server ES5, which can be created free of charge at <https://register.sapdevcenter.com/SUPSignForms>.



Caution:

Due to the rapidly-changing nature of cloud software, the naming of fields and buttons as well as steps may differ from the exercise solution.

1. Open the SAP Fiori launchpad of the SAP Gateway Demo Server ES5 in Google Chrome using <https://sapes5.sapdevcenter.com/sap/bc/ui2/flp>.
2. Examine the *Procurement Overview* and a purchase order of your choice.
3. Operate additional apps of your choice.

Explore SAP Fiori

Business Example

You want to test the SAP Fiori launchpad of the SAP Gateway Demo Server ES5.



Note:

This exercise requires an account in the SAP Gateway Demo Server ES5, which can be created free of charge at <https://register.sapdevcenter.com/SUPSignForms>.



Caution:

Due to the rapidly-changing nature of cloud software, the naming of fields and buttons as well as steps may differ from the exercise solution.

1. Open the SAP Fiori launchpad of the SAP Gateway Demo Server ES5 in Google Chrome using <https://sapes5.sapdevcenter.com/sap/bc/ui2/flp>.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose *SAP Gateway Demo Server ES5 - FLP* in the *SAP Fiori* folder.
 - c) In the *User* field, enter your SAP-user.
 - d) In the *Password* field, enter your password.
 - e) Choose *Log On*.



Note:

If you created a new account, you are prompted to update your password.

2. Examine the *Procurement Overview* and a purchase order of your choice.
 - a) Choose the *Procurement Overview* tile.
 - b) Examine the cards with diagrams and tables.
 - c) Choose the stack number of *Purchase Orders to be Approved*.
 - d) Choose the header of a purchase order.
 - e) Examine the purchase order.
3. Operate additional apps of your choice.

- a) Choose *Home*.
- b) Operate additional apps as you wish.

Operate SAP Fiori Launchpad

Business Scenario

Log in to the SAP Secure Login Client and start the *SAP Fiori launchpad* in the browser and SAP Business Client. Operate the *Me Area* and the *Notification Center* of the *SAP Fiori launchpad*.



Note:
Login information will be provided by your trainer.

1. Log in to your training landscape.
2. Log in to the SAP Secure Login Client of your training landscape.
3. Start the SAP Fiori launchpad of your Front-End Server (FES) in Google Chrome and examine the URL.
4. Start the SAP Fiori launchpad of your FES in the SAP Business Client and examine the system entry.
5. Examine the SAP Fiori launchpad information dialog box for the SAP Fiori reference app *Shop*.
6. Buy a product in the SAP Fiori reference app *Shop* and access your purchase order via the notification in the SAP Fiori launchpad.



Note:
Your user is also allowed to handle purchase orders of other users, so be careful to only work with your purchase orders.

Operate SAP Fiori Launchpad

Business Scenario

Log in to the SAP Secure Login Client and start the *SAP Fiori launchpad* in the browser and SAP Business Client. Operate the *Me Area* and the *Notification Center* of the *SAP Fiori launchpad*.



Note:

Login information will be provided by your trainer.

1. Log in to your training landscape.
 - a) Follow the guidance of your trainer.
2. Log in to the SAP Secure Login Client of your training landscape.
 - a) In the Windows taskbar, choose *SAP Secure Login Client*.
 - b) In the *SAP Secure Login Client*, right-click on *SAP AS Java Authentication* and choose *Log In...*
 - c) In the *User name* field, enter your user name.
 - d) In the *Password* field, enter your password.
 - e) Choose *OK*.
3. Start the SAP Fiori launchpad of your Front-End Server (FES) in Google Chrome and examine the URL.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose the *SAP Fiori launchpad* of your FES.
 - c) Examine the URL.
4. Start the SAP Fiori launchpad of your FES in the SAP Business Client and examine the system entry.
 - a) In the Windows start menu, choose *SAP Business Client*.
 - b) In the *SAP Business Client*, select the *SAP Fiori launchpad* of your FES.
 - c) Choose *Edit*.
 - d) Examine the system entry.
 - e) Choose *Cancel*.
 - f) Choose *Log On*.

5. Examine the SAP Fiori launchpad information dialog box for the SAP Fiori reference app *Shop*.
 - a) In the *SAP Fiori launchpad*, choose the *Shop* tile.
 - b) Click your user in the upper left corner.
 - c) Choose *About*.
 - d) Examine the app information.
 - e) Choose *OK*.
6. Buy a product in the SAP Fiori reference app *Shop* and access your purchase order via the notification in the SAP Fiori launchpad.



Note:

Your user is also allowed to handle purchase orders of other users, so be careful to only work with your purchase orders.

- a) In the SAP Fiori reference app *Shop*, choose *Add to Cart* for a product of your choice.
- b) Choose *Shopping Cart* in the upper right corner of the screen.
- c) Choose *Go to Checkout*.
- d) Choose *Buy Now*.
- e) Choose *Notifications* in the upper right corner of the screen.
- f) Select the most recent *Purchase order*.



Hint:

If the purchase order does not show your product, select the purchase order of your user on the left. Remember that your user is allowed to handle all users.

Personalize the SAP Fiori Launchpad

Business Example

Change the design of the SAP Fiori launchpad. Add and move tiles and user groups in the SAP Fiori launchpad.



Note:

Login information will be provided by your trainer.

1. Change the design theme of the SAP Fiori launchpad of your Front-End Server (FES).
2. Add the *Purchase Order* tile of the *Reference Apps* catalog to your *My Home* group.
3. Create the group **User Group** and add the *Manage Products* tile of the *Reference Apps* catalog to it.
4. Change the order of your groups and move the *Purchase Order* tile and the *Manage Products* tile in the *Reference Apps* group.
5. Start the *Data Browser (SE16)* in your Back-End Server (BES) via a new tile in your *User Group*.

Personalize the SAP Fiori Launchpad

Business Example

Change the design of the SAP Fiori launchpad. Add and move tiles and user groups in the SAP Fiori launchpad.



Note:

Login information will be provided by your trainer.

1. Change the design theme of the SAP Fiori launchpad of your Front-End Server (FES).
 - a) In the *SAP Fiori launchpad* of your FES, choose your user in the upper left corner.
 - b) In the *Me Area*, choose *Settings*.
 - c) In the *Settings* window, choose *Appearance*.
 - d) Select a *Theme* of your choice.
 - e) Choose *Save*.
2. Add the *Purchase Order* tile of the *Reference Apps* catalog to your *My Home* group.
 - a) Choose your user in the upper left corner.
 - b) In the *Me Area*, choose *App Finder*.
 - c) In the list of catalogs on the left, choose *Reference Apps*.
 - d) Click the pin of the *Purchase Orders* tile.
 - e) Choose *My Home* and then choose *OK*.
 - f) Choose *Back*.
3. Create the group **User Group** and add the *Manage Products* tile of the *Reference Apps* catalog to it.
 - a) Choose your user in the upper left corner.
 - b) In the *Me Area*, choose *Edit Home Page*.
 - c) Choose *+ Add Group*.
 - d) In the *Group Name* field, enter **User Group** followed by **Enter**.
 - e) Choose the tile placeholder containing a + of the *User Group*.
 - f) If it is not already selected, choose *Reference Apps*.
 - g) Click the pin of the *Manage Products* tile.

- h) Choose *Back*.
- 4. Change the order of your groups and move the *Purchase Order* tile and the *Manage Products* tile in the *Reference Apps* group.
 - a) Click and hold the name of the *User Group*.
 - b) Drag and drop the group to a position of your choice.
 - c) Choose *Close* in the lower-right corner.
 - d) Click and hold the *Purchase Order* tile in your *My Home* group.
 - e) Drag and drop the tile in the *Reference Apps* group.
 - f) Click and hold the *Manage Products* tile in the *User Group* group.
 - g) Drag and drop the tile in the *Reference Apps* group.
- 5. Start the *Data Browser (SE16)* in your Back-End Server (BES) via a new tile in your *User Group*.
 - a) Click the tile placeholder containing a + of the *User Group*.
 - b) Choose *User Menu* at the top.
 - c) In the list of folders on the left, choose *Development*.
 - d) Click the pin of the *Data Browser (SE16)* tile.
 - e) Choose *Back*.
 - f) Choose the *Data Browser (SE16)* tile.

Operate SAP Fiori Search

Business Scenario

Search for business data using the SAP Fiori search, adapt the visualization of the search result, and save the result as tile in the SAP Fiori launchpad.



Note:
Login information will be provided by your trainer.

1. Search for the cost centers of the category **production** with company code **1010** in the SAP Fiori launchpad of your Front-End Server (FES).
2. Open the profit center of the cost center **Manufacturing 1** and display all information about all associated cost centers.
3. Save the result as tile in the SAP Fiori launchpad in your *My Home* group and add **Profit Center** as info text to the tile.

Operate SAP Fiori Search

Business Scenario

Search for business data using the SAP Fiori search, adapt the visualization of the search result, and save the result as tile in the SAP Fiori launchpad.



Note:
Login information will be provided by your trainer.

1. Search for the cost centers of the category **production** with company code **1010** in the SAP Fiori launchpad of your Front-End Server (FES).
 - a) In the SAP Fiori launchpad of your FES, choose *Search* in the upper right.
 - b) In the *Search* menu, choose *Cost Centers*.
 - c) In the *Search* field, enter **1010** and press Enter.
 - d) Choose *Show filters* in the upper left.
 - e) In the *Filter By* pane, choose *Production* as the *Cost Center Category*.
 - f) Examine the *Search Results* screen.
2. Open the profit center of the cost center **Manufacturing 1** and display all information about all associated cost centers.
 - a) On the *Search Results* screen, choose *Manufacturing 1 (DE) 10101301*.
 - b) Examine the cost center data.
 - c) Choose the *Product A* profit center.
 - d) Choose the *Cost Centers* anchor.
 - e) In the *Cost Centers* pane, choose *Settings*.
 - f) Choose *Select all*.
 - g) Choose *OK*.
 - h) Examine the result.
3. Save the result as tile in the SAP Fiori launchpad in your *My Home* group and add **Profit Center** as info text to the tile.
 - a) In the upper right corner, choose *Share* → *Save as Tile*.
 - b) Choose *OK*.
 - c) Choose *Home*.

- d) Choose your user in the upper left.
- e) In the *Me Area*, choose *Edit Home Page*.
- f) Choose the three dots icon in the lower right corner of the *Product A* tile.
- g) Choose *Edit Tile Information*.
- h) In the *Description* field, enter **Profit Center**.
- i) Choose *OK*.
- j) Choose *Close* in the lower right corner.
- k) Operate the SAP Fiori search as you wish.

Operate SAP Web IDE

Business Scenario

Import and test an SAP Fiori app from a front-end server in the *SAP Web IDE*.



Note:
Login information will be provided by your trainer.

1. Create a user account in the SAP Web IDE.
2. Import the SAP Fiori reference app *Shop* from the SAPUI5 ABAP repository of your front-end server in the SAP Web IDE.
3. Test the SAP Fiori reference app *Shop* in the SAP Web IDE.

Operate SAP Web IDE

Business Scenario

Import and test an SAP Fiori app from a front-end server in the *SAP Web IDE*.



Note:
Login information will be provided by your trainer.

1. Create a user account in the SAP Web IDE.
 - a) Open the SAP Web IDE in Google Chrome.
 - b) Choose *Create a new account*.
 - c) In the *username* field, enter your user name.
 - d) In the *password* field, enter a password consisting of eight numbers and characters.
 - e) In the *retype password* field, retype your password.
 - f) Choose *Sign up*.
2. Import the SAP Fiori reference app *Shop* from the SAPUI5 ABAP repository of your front-end server in the SAP Web IDE.
 - a) On the *Welcome* screen in the *Import an Application* pane, choose *SAPUI5 ABAP Repository*.
 - b) In the *System* menu, choose your front-end server.
 - c) In the *User Name* field in the dialog box, enter your username for your front-end server.
 - d) In the *Password* field of the popup, enter the password for your front-end server.
 - e) In the search field, enter **shop**.
 - f) Choose the *EPMRA_SHOP* application and then choose *OK*.
 - g) In the *Information* dialog box, choose *OK*.
 - h) Examine the *EPMRA_SHOP* project.
3. Test the SAP Fiori reference app *Shop* in the SAP Web IDE.
 - a) Select the *EPMRA_SHOP* project.
 - b) In the *Run* menu, choose *Run as* → *SAP Fiori Launchpad Sandbox*.
 - c) In the *Choose the File to Run* dialog box, choose *Component.js*, and then choose *OK*.
 - d) In the *User Name* field in the dialog box, enter your username for your front-end server.

- e) In the *Password* field in the dialog box, enter the password for your front-end server.
- f) Choose *Log In*.

Operate SAP Gateway

Business Example

Examine and test an SAP Gateway service using SAP Gateway Service Maintenance and the SAP Gateway Client.



Note:
Login information will be provided by your trainer.

1. Log on to your Front-End Server (FES) using SAP GUI.
2. Examine the service registration of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Service Maintenance on your FES.
3. Call the service document of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
4. Call the service metadata document of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
5. Display all products of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
6. Display the first two products in the format JSON of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.

Operate SAP Gateway

Business Example

Examine and test an SAP Gateway service using SAP Gateway Service Maintenance and the SAP Gateway Client.



Note:
Login information will be provided by your trainer.

1. Log on to your Front-End Server (FES) using SAP GUI.
 - a) In the SAP Business Client or SAP Logon, select the SAP GUI SNC system entry of your FES.
 - b) Choose *Log On*.
2. Examine the service registration of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Service Maintenance on your FES.
 - a) On the *SAP Easy Access* screen, search for *Activate and Maintain Services* or start transaction `/IWFND/MAINT_SERVICE`.
 - b) Choose *Filter*.
 - c) In the *Technical Service Name* field, enter ***epm_ref*** and choose *Continue*.
 - d) Choose the *Technical Service Name* **ZEPM_REF_APPS_SHOP_SRV**.
 - e) Confirm that the status of the ICF Node *ODATA* is green.
 - f) Confirm that the assigned *SAP System Alias* is *S4HANA*.
3. Call the service document of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
 - a) In the *ICF Nodes* panel, choose *SAP Gateway Client*.
 - b) Choose *Execute*.
 - c) Examine the *HTTP Response* screen.
4. Call the service metadata document of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
 - a) In the *SAP Gateway Client*, choose *Add URI Option*.
 - b) Double-click the *URI Option* **\$metadata**.
 - c) Choose *Execute*.
 - d) Examine the *HTTP Response* screen.

5. Display all products of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
 - a) In the *SAP Gateway Client*, choose *EntitySets*.
 - b) Double-click the *EntitySet Name* **Products**.
 - c) Choose *Execute*.
 - d) Examine the *HTTP Response* screen.
6. Display the first two products in the format JSON of the Gateway service **ZEPM_REF_APPS_SHOP_SRV** in the SAP Gateway Client on your FES.
 - a) In the *SAP Gateway Client*, choose *Add URI Option*.
 - b) Double-click the *URI Option* **\$format=json**.
 - c) Choose *Add URI Option*.
 - d) Double-click the *URI Option* **\$top=2**.
 - e) Choose *Execute*.
 - f) Examine the *HTTP Response* screen.

Operate SAP Fiori Apps Reference Library

Business Scenario

Open the SAP Fiori apps reference library and search for product features of apps using filters.

1. Open the SAP Fiori apps reference library in Google Chrome and examine the URL.
2. Open the product features of the *Post General Journal Entries* app. Use the following information:

Field	Value
<i>Line of Business</i>	Finance
<i>Back-End Product</i>	SAP S/4HANA
<i>Application Type</i>	Transactional

3. Open the product features of the *Sales Order Fulfillment Issues* app. Use the following information:

Field	Value
<i>Back-End Product</i>	SAP ERP
<i>Application Type</i>	Analytical

4. Open the product features of the *Create Material* app. Use the following information:

Field	Value
<i>Roles</i>	Master Data Specialist – Product Data
<i>Application Type</i>	SAP GUI

Operate SAP Fiori Apps Reference Library

Business Scenario

Open the SAP Fiori apps reference library and search for product features of apps using filters.

1. Open the SAP Fiori apps reference library in Google Chrome and examine the URL.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose *SAP Fiori Apps Reference Library* in the *SAP Fiori* folder.
 - c) Examine the URL.
2. Open the product features of the *Post General Journal Entries* app. Use the following information:

Field	Value
<i>Line of Business</i>	Finance
<i>Back-End Product</i>	SAP S/4HANA
<i>Application Type</i>	Transactional

- a) In the *SAP Fiori apps reference library*, choose *SAP Fiori apps for SAP S/4HANA*.
 - b) Choose *by Line of Business*.
 - c) Choose *Finance*.
 - d) Choose *Filter*.
 - e) In the *Select Filters* dialog box, choose *Application Type*.
 - f) Select *Fiori — Transactional*.
 - g) Choose *OK*.
 - h) In the *Search* field, enter **general journal** and press Enter.
 - i) Choose *Post G/L Document / Post General Journal Entries*.
 - j) Examine the product features of *Post General Journal Entries*.
3. Open the product features of the *Sales Order Fulfillment Issues* app. Use the following information:

Field	Value
<i>Back-End Product</i>	SAP ERP

Field	Value
<i>Application Type</i>	Analytical

- a) Choose *Home*.
 - b) Choose *SAP Fiori apps for SAP Business Suite*.
 - c) Choose *by Back-End Product*.
 - d) In the *Search by Back-End Product* field, enter **erp**.
 - e) Choose *SAP ERP*.
 - f) Choose *Filter*.
 - g) In the *Select Filters* dialog box, choose *Application Type*.
 - h) Select *Fiori — Analytical*.
 - i) Choose *OK*.
 - j) In the *Search* field, enter **sales** and press Enter.
 - k) Choose *Sales Order Fulfillment Issues*.
 - l) Examine the product features of *Sales Order Fulfillment Issues*.
 - m) Mention the menu entries **SAP Business Suite**, **SAP S/4HANA**, and **SAP S/4HANA Cloud**.
4. Open the product features of the *Create Material* app. Use the following information:

Field	Value
<i>Roles</i>	Master Data Specialist — Product Data
<i>Application Type</i>	SAP GUI

- a) Choose *Home*.
- b) Choose *All Apps*.
- c) Choose *Filter* at the bottom.
- d) In the *Filter By: Application Type* dialog box, choose *SAP GUI*.
- e) Choose *Navigate Back*.
- f) Choose *Role*.
- g) In the *Search* field, enter **product data**.
- h) Choose *Master Data Specialist — Product Data*.
- i) Choose *OK*.
- j) In the *Search* field, enter **create** and press Enter.

- k) Choose *Create Material*.
- l) Examine the product features of *Create Material*.

Use SAP Fiori App Recommendations

Business Scenario

Open the SAP Fiori apps reference library and operate the SAP Fiori App Recommendations.



Note:
This exercise requires an SAP account.

1. Log on SAP Fiori App Recommendations in the SAP Fiori apps reference library using your SAP user.
2. Create a new analysis **Sample Analysis (UX100)** for the product suite **SAP S/4HANA** using the **Sample Usage Profile (Shared)**.
3. Filter the list of apps of your analysis by *Application Type Fiori - Analytical* and Role *Accounts Payable Accountant*. Switch to detail view and examine the feedback options.

Use SAP Fiori App Recommendations

Business Scenario

Open the SAP Fiori apps reference library and operate the SAP Fiori App Recommendations.



Note:
This exercise requires an SAP account.

1. Log on SAP Fiori App Recommendations in the SAP Fiori apps reference library using your SAP user.
 - a) In the Google Chrome favorites, choose *SAP Fiori Apps Reference Library* in the *SAP Fiori* folder.
 - b) On the home page, choose *Get SAP Fiori App Recommendations*.
 - c) Log on using your SAP account.
2. Create a new analysis **Sample Analysis (UX100)** for the product suite **SAP S/4HANA** using the **Sample Usage Profile (Shared)**.
 - a) Select *Create new analysis*.
 - b) Choose *Step 2*.
 - c) In the *Usage Profile* dropdown, select **Sample Usage Profile (Shared)**.
 - d) Choose *Step 3*.
 - e) In the *Analysis for Product Suite* dropdown, select **SAP S/4HANA**.
 - f) In the *Front-End System Profile* dropdown, select **Sample Frontend Profile (Share)**.
 - g) In the *Back-End System Profile* dropdown, select **Sample Backend Profile (Shared)**.
 - h) Choose *Step 4*.
 - i) In the *Analysis Name* field, enter **Sample Analysis (UX100)**.
 - j) Choose *Get SAP Fiori App Recommendations*.
3. Filter the list of apps of your analysis by *Application Type Fiori - Analytical* and *Role Accounts Payable Accountant*. Switch to detail view and examine the feedback options.
 - a) Choose *Application Type*.
 - b) In the popup, select *Fiori - Analytical* and choose *OK*.

- c) Choose *Role*.
- d) In the popup, select *Accounts Payable Accountant* and choose *OK*.
- e) Choose *Detail View* at the bottom.
- f) Choose the speech balloons in the lower right corner and mention the feedback options.

Debug ABAP Transactions in SAP Business Client

Business Scenario

Debug an ABAP transactions in *SAP Fiori launchpad* running in SAP Business Client.



Note:
Login information will be provided by your trainer.

1. Enable the *SAP GUI OK code* in the SAP Business Client.
2. Open the *Data Browser (SE16)* in your *SAP Fiori launchpad*. Switch to debugging at runtime when selecting data from database table **SCARR**.

Debug ABAP Transactions in SAP Business Client

Business Scenario

Debug an ABAP transactions in *SAP Fiori launchpad* running in SAP Business Client.



Note:
Login information will be provided by your trainer.

1. Enable the *SAP GUI OK code* in the SAP Business Client.
 - a) Open the SAP Business Client.
 - b) In the upper left corner, choose *Menu* → *Settings* → *SAP GUI Interoperability*.
 - c) Select *Enable SAP GUI OK code*.
 - d) Choose *OK*.
 - e) Close the SAP Business Client.
2. Open the *Data Browser (SE16)* in your *SAP Fiori launchpad*. Switch to debugging at runtime when selecting data from database table **SCARR**.
 - a) In the SAP Business Client, choose the SAP GUI SNC system entry of your FES.
 - b) Choose *Data Browser (SE16)* in your *User Group*.



Note:
If you miss the tile, you can add it via the *User Menu* in the *App Finder*.

- c) Confirm every system information dialog window.
- d) In the *Table Name* field, enter **SCARR**.
- e) Choose *Table Contents*.
- f) In the *OK code* field in the upper left, enter **/h** and choose **Enter**.



Hint:
You can also choose *More* → *System* → *Utilities* → *Debug Dynpro*.

- g) Choose *Execute*.

- h) In the *ABAP Debugger*, examine the ABAP coding.
- i) Choose *Continue*.

Debug Transactional Apps

Business Scenario

Examine an SAP Gateway project of an SAP Fiori app and debug a GET_ENTITYSET-method.



Note:
Login information will be provided by your trainer.

1. Log on to your Back-End Server (BES) using SAP GUI.
2. Examine the **EPM_REF_APPS_SHOP** project in the SAP Gateway Service Builder on your BES.
3. Set an external breakpoint in the method **PRODUCTS_GET_ENTITYSET** of the class **EPM_REF_APPS_SHOP** on your BES.
4. Start the SAP Fiori reference app *Shop* in your SAP Fiori launchpad and examine the coding in the ABAP Debugger.

Debug Transactional Apps

Business Scenario

Examine an SAP Gateway project of an SAP Fiori app and debug a GET_ENTITYSET-method.



Note:
Login information will be provided by your trainer.

1. Log on to your Back-End Server (BES) using SAP GUI.
 - a) In the SAP Business Client or SAP Logon, choose the SAP GUI SNC system entry of your BES.
 - b) Choose *Log On*.
2. Examine the **EPM_REF_APPS_SHOP** project in the SAP Gateway Service Builder on your BES.
 - a) In the *SAP Easy Access* screen, search for *SAP Gateway Service Builder* or start transaction `SEGW`.
 - b) Choose *Open Project*.
 - c) In the *Project* field, enter **EPM_REF***.
 - d) Open the value help by pressing F4.
 - e) Double-click the *Project* **EPM_REF_APPS_SHOP**.
 - f) Choose *Execute*.
 - g) Examine the EPM_REF_APPS_SHOP project.
3. Set an external breakpoint in the method **PRODUCTS_GET_ENTITYSET** of the class EPM_REF_APPS_SHOP on your BES.
 - a) In the *SAP Gateway Service Builder*, double-click *Runtime Artifacts* of the *EPM_REF_APPS_SHOP* project.
 - b) Right-click *CL_EPM_REF_APPS_SHOP_DPC* and choose *Go to ABAP Workbench*.
 - c) Double-click the *PRODUCTS_GET_ENTITYSET* method.
 - d) Choose *Set/Delete External Breakpoint*.
4. Start the SAP Fiori reference app *Shop* in your SAP Fiori launchpad and examine the coding in the ABAP Debugger.
 - a) In the *SAP Fiori launchpad*, choose the *Shop* tile.
 - b) In the *ABAP Debugger*, choose *Single Step*.

- c) Examine the ABAP coding.
- d) In the menu, choose *Breakpoints* → *Delete all BPs*.
- e) Choose *Continue*.

Test HANA XS OData Services

Business Scenario

Examine and test a calculation view and XS OData service on an SAP HANA system.



Note:
Login information will be provided by your trainer.

1. Log in to the SAP HANA Web IDE of your SAP HANA system.
2. Examine and test the calculation view
sap.hana.democontent.epm.models.PROD.calculationview on your SAP HANA system.
3. Examine and test the XS OData service
sap.hana.democontent.epm.services.productDetails.xsodata on your SAP HANA system.

Test HANA XS OData Services

Business Scenario

Examine and test a calculation view and XS OData service on an SAP HANA system.



Note:
Login information will be provided by your trainer.

1. Log in to the SAP HANA Web IDE of your SAP HANA system.
 - a) In Google Chrome, choose the SAP HANA Web IDE of your SAP HANA system.
 - b) In the *Username* field, enter your user name for your SAP HANA system.
 - c) In the *Password* field, enter your password for your SAP HANA system.
 - d) Choose *Log On*.
2. Examine and test the calculation view **sap.hana.democontent.epm.models.PROD.calculationview** on your SAP HANA system.
 - a) In the *SAP HANA Web IDE*, choose *Editor*.
 - b) Choose *Find File*.
 - c) In the *Search* field, enter **PROD..**



Hint:
The search field is case-sensitive.

- d) Select **sap.hana.democontent.epm.models.PROD.calculationview** and choose *Open*.
 - e) Examine the calculation view.
 - f) Choose *Run Calculation View*.
 - g) Examine the list of products.
3. Examine and test the XS OData service **sap.hana.democontent.epm.services.productDetails.xsodata** on your SAP HANA system.
 - a) In the *SAP HANA Web IDE Editor*, choose *Find File*.
 - b) In the *Search* field, enter **productDetails**.



Hint:
The search field is case-sensitive.

- c) Select *sap.hana.democontent.epm.services.productDetails.xsodata* and choose *Open*.
- d) Choose *Run*.
- e) Examine the OData service document.
- f) Add **/ProductDetails** to the URL and press Enter.
- g) Examine the XML list of products.

Test HANA Search Connector

Business Scenario

Search for an SAP HANA search connector in the SAP Fiori reference library, and examine and test it in your system.



Note:
Login information will be provided by your trainer.

1. In the SAP Fiori apps reference library, search for the fact sheet *Bank (S/4HANA)* for the release of your BES. Note down the search model of the search connector.
Search model: _____
2. In the *Connector Administration Cockpit* (transaction `ESH_COCKPIT`) of your Back-End Server (BES), note down the *Connector ID* for the search model you noted down before and check its *Status*.
Search connector ID: _____
3. In the *Enterprise Search Test* (transaction `ESH_TEST_SEARCH`) of your BES, check the consistency of the connector you noted down and execute a search for all banks.

Test HANA Search Connector

Business Scenario

Search for an SAP HANA search connector in the SAP Fiori reference library, and examine and test it in your system.



Note:
Login information will be provided by your trainer.

1. In the SAP Fiori apps reference library, search for the fact sheet *Bank (S/4HANA)* for the release of your BES. Note down the search model of the search connector.
Search model: _____
 - a) In the *SAP Fiori apps reference library*, choose *SAP Fiori apps for SAP S/4HANA*.
 - b) Choose *All apps*.
 - c) Choose *Filter*.
 - d) In the *Select Filters* dialog box, choose *Application Type*.
 - e) Select *Fiori — Object page / Fact sheet* and choose *OK*.
 - f) In the *Search by App name* field, enter **bank**.
 - g) Choose *Bank (S/4HANA)*.
 - h) Choose the *Implementation Information* tab.
 - i) In the *Back-End Version* menu, choose the release of your BES.
 - j) Expand the *Configuration* node.
 - k) In the *Search Connector* pane, note down the *Search Model* **BANK_H**.
2. In the *Connector Administration Cockpit* (transaction `ESH_COCKPIT`) of your Back-End Server (BES), note down the *Connector ID* for the search model you noted down before and check its *Status*.
Search connector ID: _____
 - a) In the *SAP Easy Access* screen of your BES, search for *Connector Administration Cockpit* or start transaction `ESH_COCKPIT`.
 - b) In the *Find in table* field, enter **BANK_H**.
 - c) Choose *Find*.
 - d) Note down the *Connector ID* **S4D100~BANK_H~**.
 - e) Check that the *Status* is **Active**.

3. In the *Enterprise Search Test* (transaction `ESH_TEST_SEARCH`) of your BES, check the consistency of the connector you noted down and execute a search for all banks.
 - a) In the *SAP Easy Access* screen of your BES, search for *Test Search* or start transaction `ESH_TEST_SEARCH`.
 - b) In the *Connector ID* field, enter **S4D100~BANK_H~**.
 - c) Choose *Check Connector*.
 - d) Examine the test result.
 - e) Choose *Back*.
 - f) Choose *Execute*.
 - g) Examine the list of banks.

Test ABAP CDS Views

Business Scenario

Examine and test a DDL SQL and CDS view in the ABAP Development Tools (Eclipse).

1. Start Eclipse and create an ABAP project connecting to your Back-End Server (BES).
2. Examine and test the DDL SQL view **cux100soi** in Eclipse on your BES.
3. Examine and test the CDS view **c_UX100SalesOrderItem** in Eclipse on your BES.
4. Add the *Sales Order Item List* tile of the *UX100 Fiori Elements* catalog to your *My Home* group and display a list of sales order items.

Test ABAP CDS Views

Business Scenario

Examine and test a DDL SQL and CDS view in the ABAP Development Tools (Eclipse).

1. Start Eclipse and create an ABAP project connecting to your Back-End Server (BES).
 - a) In the Windows start menu, choose *Eclipse*.
 - b) On the *Welcome* screen, choose *Workbench* in the right upper corner.
 - c) Choose *Open Perspective* in the right upper corner.
 - d) Select **ABAP** and choose *OK*.
 - e) Choose *New* → *ABAP Project*.
 - f) Choose the SAP GUI SNC entry of your BES and then choose *Next* >.
 - g) In the *Connection Settings*, choose *Next* >.
 - h) In the *Client* field, enter the client of your BES.
 - i) In the *User* field, enter your user.
 - j) Choose *Finish*.
2. Examine and test the DDL SQL view **CUX100SOI** in Eclipse on your BES.
 - a) In *Eclipse*, choose *Navigate* → *Open ABAP Development Object...*
 - b) In the *Search* field, enter **cux100soi**.
 - c) Choose *CUX100SOI (View)* and then choose *OK*.
 - d) Examine the DDL SQL view.
 - e) In the *Data Dictionary* tool, choose *Contents*.
 - f) Choose *Execute*.
 - g) Examine the list of sales order items in the *Data Browser*.
3. Examine and test the CDS view **C_UX100SalesOrderItem** in Eclipse on your BES.
 - a) In *Eclipse*, choose *Navigate* → *Open ABAP Development Object...*
 - b) In the *Search* field, enter **c_ux100salesorderitem**.
 - c) Select *C_UX100SalesOrderItem (Data Definition)* and choose *OK*.
 - d) Examine the CDS view.
 - e) Choose *Run* → *Run As* → *ABAP Application*.
 - f) Examine the list of sales order items in Eclipse.

4. Add the *Sales Order Item List* tile of the *UX100 Fiori Elements* catalog to your *My Home* group and display a list of sales order items.
 - a) In the *SAP Fiori launchpad* of your Front-End Server (FES), click your user in the upper left corner.
 - b) In the *Me Area*, choose *App Finder*.
 - c) In the list of catalogs on the left, choose *UX100 Fiori Elements*.
 - d) Click the pin of the *Sales Order Item List* tile.
 - e) Select *My Home* and choose *OK*.
 - f) Choose *Back*.
 - g) Choose the *Sales Order Item List* tile.
 - h) Choose *Go*.

Unit 4

Exercise 14

Create SAP Fiori Groups

Business Example

Create an SAP Fiori group and add tiles and links from SAP Fiori catalogs.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names in this exercise include ##, replace ## with the number your trainer has assigned to you.

1. Start the SAP Fiori launchpad designer for customizing your Front-End Server (FES) in Google Chrome and examine the URL.
2. Create the group **Z_##_BCG_FIN_MANAGEMENT** with the title **Financial Management ##**.



Hint:
Be sure to enter the ID using capital letters.

3. Add the *Manage Journal Entries* app of the *General Ledger - Journal Entry Processing* catalog as tile to the **Z_##_BCG_FIN_MANAGEMENT** group.
4. Add the *Manage Banks* app of the *SAP_SFIN_BC_BAM* catalog as tile to the **Z_##_BCG_FIN_MANAGEMENT** group.
5. Change the tile for *Manage Journal Entries* to a link in the **Z_##_BCG_FIN_MANAGEMENT** group.
6. Log on to your FES using SAP GUI.
7. Create the role **Z_##_BR_TRAINING** in the Role Maintenance (PFCG) of your FES.
8. Add the **Z_##_BCG_FIN_MANAGEMENT** group to the menu of the **Z_##_BR_TRAINING** role. Assign the **Z_##_BR_TRAINING** role to your user.
9. Check if the *Financial Management ##* group is part of the SAP Fiori launchpad of your FES.

Create SAP Fiori Groups

Business Example

Create an SAP Fiori group and add tiles and links from SAP Fiori catalogs.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names in this exercise include ##, replace ## with the number your trainer has assigned to you.

1. Start the SAP Fiori launchpad designer for customizing your Front-End Server (FES) in Google Chrome and examine the URL.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose the *SAP Fiori Launchpad Designer* of your FES.
 - c) Examine the URL.
2. Create the group **z_##_BCG_FIN_MANAGEMENT** with the title **Financial Management ##**.



Hint:
Be sure to enter the ID using capital letters.

- a) In the *SAP Fiori launchpad designer*, choose *Groups*.
 - b) Choose + beneath the list of groups.
 - c) In the *Title* field, enter **Financial Management ##**.
 - d) In the *ID* field, enter **z_##_BCG_FIN_MANAGEMENT**.
 - e) Choose *Save*.
3. Add the *Manage Journal Entries* app of the *General Ledger - Journal Entry Processing* catalog as tile to the **z_##_BCG_FIN_MANAGEMENT** group.
 - a) In the *Show as Tiles* group, click the tile placeholder containing a +.
 - b) In the *Catalog* field, open the value help.

- c) In the *Search* field, enter **journal entry**.
- d) Choose *General Ledger - Journal Entry Processing (SAP_SFIN_BC_GL_JE_PROC)*.
- e) Choose + beneath the *Manage Journal Entries* tile.



Hint:

Do not choose the *Navigate Back* button at this point. Continue with the next exercise step.

4. Add the *Manage Banks* app of the *SAP_SFIN_BC_BAM* catalog as tile to the **Z_##_BCG_FIN_MANAGEMENT** group.
 - a) In the *Catalog* field of the *Add Tile to Group 'Financial Management ##'* window, open the value help.
 - b) In the *Search* field, enter **bam**.
 - c) Choose *Bank Account Management - Core Functions (SAP_SFIN_BC_BAM)*.
 - d) Choose + beneath the *Manage Banks* tile.
 - e) Choose *Navigate Back*.
5. Change the tile for *Manage Journal Entries* to a link in the **Z_##_BCG_FIN_MANAGEMENT** group.
 - a) In the *Show as Tiles* group, click and hold the *Manage Journal Entries* tile.
 - b) Drag and drop the tile in the *Show as Links* group.



Hint:

Note the appearance of a red trash bin in the lower right corner while dragging the tile.

6. Log on to your FES using SAP GUI.
 - a) In the SAP Business Client or SAP Logon, select the *SAP GUI SNC* system entry of your FES.
 - b) Choose *Log On*.
7. Create the role **Z_##_BR_TRAINING** in the Role Maintenance (PF03) of your FES.
 - a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction PF03.
 - b) In the *Role* field, enter **Z_##_BR_TRAINING**.
 - c) Choose *Create Single Role*.
 - d) In the *Description* field, enter **Training Role ##**.
 - e) Choose *Save*.
8. Add the *Z_##_BCG_FIN_MANAGEMENT* group to the menu of the *Z_##_BR_TRAINING* role. Assign the *Z_##_BR_TRAINING* role to your user.

- a) Choose the *Menu* tab.
- b) Choose the small triangle in the *Insert Node* button.



Hint:
The initial value written on the *Insert Node* button is *Transaction*.

- c) Choose *SAP Fiori Tile Group*.
 - d) In the *Group ID* field, enter **z_##*** and use the value help.
 - e) In the dialog box, double-click **Z_##_BCG_FIN_MANAGEMENT**.
 - f) Choose *Continue*.
 - g) Choose the *User* tab.
 - h) In the *User ID* field, enter your user.
 - i) Choose *Save*.
9. Check if the *Financial Management ##* group is part of the SAP Fiori launchpad of your FES.
- a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose the *Financial Management ##* anchor at the top.
 - c) Operate the apps as you wish.

Unit 4

Exercise 15

Copy SAP Fiori Catalogs

Business Scenario

Create an SAP Fiori catalog by copying an already existing one using the *SAP Fiori launchpad designer* and *SAP Fiori launchpad content manager*.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **Z_##_BC_NEWS** with the title **News Tile ##** by copying the **/UI2/SAPNewsTile** catalog with the title **SAP News Tile** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad designer*.
2. Add the RSS feed <https://news.sap.com/feed/> to the **News Tile** of your **News ##** catalog and extend its article cycle interval to **10**.
3. Search for a business catalog having an app about **data migration** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad content manager* and check its usage in roles. Copy the catalog using ID **Z_##_BC_MIG_DATA** and title **Data Migration ##**.
4. Add the **Z_##_BC_NEWS** and **Z_##_BC_MIG_DATA** catalogs to the menu of the **Z_##_BR_TRAINING** role in the *Role Maintenance* (PFCG) of your FES.
5. Add the new tiles from the **News Tile ##** and **Data Migration ##** catalogs to the **My Home** group and test it in the *SAP Fiori launchpad* of your FES.

Copy SAP Fiori Catalogs

Business Scenario

Create an SAP Fiori catalog by copying an already existing one using the *SAP Fiori launchpad designer* and *SAP Fiori launchpad content manager*.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **z_##_BC_NEWS** with the title **News Tile ##** by copying the **/UI2/SAPNewsTile** catalog with the title **SAP News Tile** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad designer*.
 - a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
 - b) In the *Search for catalogs* field, enter **news**.
 - c) Click and hold the *SAP News Tile (/UI2/SAPNewsTile)* catalog.
 - d) Drag and drop the catalog in the *New Catalog with References* area.
 - e) In the *Title* field of the *Copy Catalog* dialog box, enter **News Tile ##**.
 - f) In the *ID* field, enter **z_##_BC_NEWS**.
 - g) Choose *Copy*.
2. Add the RSS feed <https://news.sap.com/feed/> to the *News Tile* of your **News ##** catalog and extend its article cycle interval to **10**.
 - a) Choose the *News Tile* showing the text *No articles to display*.
 - b) In the *Article Cycle Interval (secs)* field, enter **10**.
 - c) In the *Feed #1* field, enter <https://news.sap.com/feed/>.



Note:
You may also use any other XML-based RSS feed via HTTPS that complies to the firewall rules.

- d) Choose *Save*.
 - e) In the dialog box to confirm the break of the reference, choose *OK*.
3. Search for a business catalog having an app about **data migration** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad content manager* and check its usage in roles. Copy the catalog using ID **Z_##_BC_MIG_DATA** and title **Data Migration ##**.
- a) In the *SAP Easy Access* menu of your FES, search for *FLP Content Manager: Client-Specific* or start transaction `/UI2/FLPCM_CUST`.
 - b) Choose the *Tiles/Target Mappings* tab.
 - c) In the *Search Tiles/Target Mappings* field, enter **migration** and choose *Go*.
 - d) In the *Tiles / Target Mappings Combinations* table, select the *Semantic Object* **DataMigration**.
 - e) In the *Catalogs* table, select the business catalog **SAP_CA_BC_MIG_DATA**.
 - f) Choose *Catalog View*.
 - g) Choose *Show Usage in Roles*.
 - h) Choose *Copy*.
 - i) In the *New ID* field, enter **Z_##_BC_MIG_DATA**.
 - j) In the *New Title* field, enter **Data Migration ##**.
 - k) Choose *Continue*.
 - l) Choose the transport request provided by your trainer.
4. Add the **Z_##_BC_NEWS** and **Z_##_BC_MIG_DATA** catalogs to the menu of the **Z_##_BR_TRAINING** role in the *Role Maintenance* (PF03) of your FES.
- a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction PF03.
 - b) In the *Role* field, enter **Z_##_BR_TRAINING**.
 - c) Choose *Change*.
 - d) Choose the *Menu* tab.
 - e) Choose the small triangle in the *Insert Node* button.



Hint:
The initial value written on the *Insert Node* button is *Transaction*.

- f) Choose *SAP Fiori Tile Catalog*.
- g) In the *Catalog ID* field, enter **Z_##_*** and use the value help.
- h) In the dialog box, double-click **Z_##_BC_NEWS**.
- i) Choose *Continue*.

- j) Choose the *Insert Node* button.



Hint:

The value written on the *Insert Node* button is *SAP Fiori Catalog*.

- k) In the *Catalog ID* field, enter **z_##*** and use the value help.

- l) In the dialog box, double-click **Z_##_BC_MIG_DATA**.

- m) Choose *Continue*.



Note:

If the *Not all applications are available in system* dialog box appears, continue by choosing *Cancel*.

- n) Choose *Save*.

5. Add the new tiles from the *News Tile ##* and *Data Migration ##* catalogs to the *My Home* group and test it in the *SAP Fiori launchpad* of your FES.

- a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.

- b) Choose your user in the upper left corner.

- c) In the *Me Area*, choose *Edit Home Page*.

- d) Click the tile placeholder containing a + of the *My Home* group.

- e) In the list of catalogs on the left, choose *News Tile ##*.

- f) Click the pin of the news tile.

- g) In the list of catalogs on the left, choose *Data Migration ##*.

- h) Click the pin of the *Migrate Your Datat* tile.

- i) Choose *Back*.

- j) Choose *Close* in the lower right corner.

- k) Operate the apps as you wish.

Reference Tiles and Target Mappings

Business Scenario

Create an SAP Fiori catalog and reference tiles and target mappings from other catalogs.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **Z_##_BC_EMPLOYEE** with the title **Employee ##** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad designer*.



Hint:
Be sure to enter the ID using capital letters.

2. Create a reference for *Maintain Bill Of Material* and its target mapping of the *PLM Technical Catalog (SAP_TC_PLM_COMMON)* catalog in your catalog **Employee ##** using the *SAP Fiori launchpad designer*.
3. Create a reference tile and target mapping for the app *Manage Business Partner Master Data* in your catalog **Employee ##** using the *SAP Fiori launchpad content manager*.
4. Add the **Z_##_BC_EMPLOYEE** catalog to the menu of the **Z_##_BR_TRAINING** role in the *Role Maintenance (PFCG)* of your FES.
5. Add the *Manage Business Partner Master Data* tile and the *Maintain Bill Of Material* tile from the *Employee ##* catalog to the *My Home* group and test them in the *SAP Fiori launchpad* of your FES.

Reference Tiles and Target Mappings

Business Scenario

Create an SAP Fiori catalog and reference tiles and target mappings from other catalogs.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **z_##_BC_EMPLOYEE** with the title **Employee ##** in the customizing of your Front-End Server (FES) using the *SAP Fiori launchpad designer*.



Hint:
Be sure to enter the ID using capital letters.

- a) In the *SAP Fiori launchpad designer* for customizing of your FES, choose *Catalogs*.
 - b) Choose + beneath the list of catalogs.
 - c) In the *Title* field, enter **Employee ##**.
 - d) In the *ID* field, enter **z_##_BC_EMPLOYEE**.
 - e) Choose *Save*.
2. Create a reference for *Maintain Bill Of Material* and its target mapping of the *PLM Technical Catalog (SAP_TC_PLM_COMMON)* catalog in your catalog **Employee ##** using the *SAP Fiori launchpad designer*.
 - a) In the *Search for catalogs* field, enter **tc_plm** and press Enter.
 - b) Choose *PLM Technical Catalog (SAP_TC_PLM_COMMON)* from the list of catalogs.
 - c) Choose *Target Mappings* at the top of the page.
 - d) In the *Search* field on the top right, enter **material** and press Enter.
 - e) Select the *Semantic Object* **MaterialBOM** with *Action* **maintenance**.
 - f) Choose *Create Reference*.

- g) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - h) Choose your *Employee ##* catalog.
 - i) Choose *Tiles* next to *Target Mappings*.
 - j) Select the *Maintain Bill Of Material* tile from the list of tiles.
 - k) Choose *Create Reference*.
 - l) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - m) Choose your *Employee ##* catalog.
3. Create a reference tile and target mapping for the app *Manage Business Partner Master Data* in your catalog **Employee ##** using the *SAP Fiori launchpad content manager*.
- a) In the *SAP Easy Access* menu of your FES, search for *FLP Content Manager: Client-Specific* or start transaction `/UI2/FLPCM_CUST`.
 - b) In the *Search Catalogs* field, enter **z_##** and choose Go.
 - c) In the *Catalogs* table, select you catalog **Employee ##**.
 - d) Choose *Add Tiles/Target Mappings*.
 - e) In the *Search Tiles/Target Mappings* field, enter **business partner master data** and choose Go.
 - f) In the *Tiles / Target Mappings Combinations* table, select the Action **manage**.
 - g) Choose *Add Tile/TM Reference*.
4. Add the **Z_##_BC_EMPLOYEE** catalog to the menu of the **Z_##_BR_TRAINING** role in the *Role Maintenance* (`PFECG`) of your FES.
- a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction `PFECG`.
 - b) In the *Role* field, enter **Z_##_BR_TRAINING**.
 - c) Choose *Change*.
 - d) Choose the *Menu* tab.
 - e) Choose the small triangle in the *Insert Node* button.



Hint:

The initial value written on the *Insert Node* button is *Transaction*.

- f) Choose *SAP Fiori Tile Catalog*.
- g) In the *Catalog ID* field, enter **z_##*** and use the value help.
- h) In the dialog box, double click **Z_##_BC_EMPLOYEE**.
- i) Choose *Continue*.



Note:

If the *Not all applications are available in system* dialog box appears, continue by choosing *Cancel*.

- j) Choose *Save*.
- 5. Add the *Manage Business Partner Master Data* tile and the *Maintain Bill Of Material* tile from the *Employee ##* catalog to the *My Home* group and test them in the *SAP Fiori launchpad* of your FES.
 - a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose your user in the upper left corner.
 - c) In the *Me Area*, choose *Edit Home Page*.
 - d) Click the tile placeholder containing a + of the *My Home* group.
 - e) In the list of catalogs on the left, choose *Employee ##*.
 - f) Click the pin of the *Manage Business Partner Master Data* tile and the *Maintain Bill Of Material* tile.
 - g) Choose *Back*.
 - h) Choose *Close* in the lower right corner.
 - i) Operate the apps as you wish.

Unit 4

Exercise 17

Create LPD_CUST Target Mappings

Business Scenario

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for an app defined in the Launchpad customizing (LPD_CUST).



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *My Leave Requests (Version 3/Fiori 2.0)* app for the release of your BES and note down the name of the main SAPUI5 application, path to ICF node, SAPUI5 component, semantic object, and action.
SAPUI5 application: _____
Path to ICF node: _____
SAPUI5 component: _____
Semantic object: _____
Action: _____
2. Search for the SAPUI5 application you noted down in the Internet Communication Framework (ICF) of your Front-End Server (FES) and check its path.
Path to ICF node: _____
3. Search for the SAPUI5 application you noted down in the repository of your Front-End Server (FES) and check the SAPUI5 component path in the `Component.js`.
Component path: _____
4. Create the launchpad role **ZUIHR##** with instance **TRANSACTIONAL** and description **UI Launchpad Role ##** using the Launchpad customizing (LPD_CUST) of your FES.



Hint:
There is no need for a namespace for SAP Fiori apps.

5. Add the *My Leave Request* app to the *ZUIHR##* launchpad role with the SAPUI5 application name, ICF, and component path you noted down using the Launchpad customizing (*LPD_CUST*) of your FES. Set the application alias of the app to **MyLeaveRequest**.
6. Create a target mapping to the *My Leave Request* app of the *ZUIHR##* launchpad role in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **manage##**.
7. Create the static tile **My Leave Request ##** with the subtitle **LPD_CUST** in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **manage##**.
8. Add the *My Leave Request ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

Create LPD_CUST Target Mappings

Business Scenario

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for an app defined in the Launchpad customizing (LPD_CUST).



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *My Leave Requests (Version 3/Fiori 2.0)* app for the release of your BES and note down the name of the main SAPUI5 application, path to ICF node, SAPUI5 component, semantic object, and action.
SAPUI5 application: _____
Path to ICF node: _____
SAPUI5 component: _____
Semantic object: _____
Action: _____
 - a) In the *SAP Fiori apps reference library*, choose *All Apps*.
 - b) In the *Search by App name* field, enter **leave**.
 - c) Choose *My Leave Requests (Version 3/Fiori 2.0)*.
 - d) In the *Product Suite* menu, choose *SAP S/4HANA*.
 - e) Choose the *Implementation Information* tab.
 - f) In the *Back-End Version* menu, choose the release of your BES.
 - g) Expand the *Configuration* node.
 - h) In the *SAPUI5 Application* pane, note down the *Technical Name* **HCMFAB_LEAV_MAN**, the *Path to ICF Node* **/sap/bc/ui5_ui5/sap/hcmfab_leav_man**, and the *SAPUI5 Component* **hcm.fab.myleaverequest**.
 - i) In the *Target Mapping(s)* pane, note down the *Semantic Object* **LeaveRequest** and *Action* **manage**.

2. Search for the SAPUI5 application you noted down in the Internet Communication Framework (ICF) of your Front-End Server (FES) and check its path.

Path to ICF node: _____

- a) In the *SAP Easy Access* menu of your FES, search for *HTTP Service Hierarchy Maintenance* or start transaction `SICF`.
 - b) In the *Service Name* field, enter `hcmfab_leav_man`.
 - c) Choose *Execute*.
 - d) Double-click `hcmfab_leav_man` under `ui5_ui5`.
 - e) Check the *Path* and *Service Name* at the top.
3. Search for the SAPUI5 application you noted down in the repository of your Front-End Server (FES) and check the SAPUI5 component path in the `Component.js`.
- Component path: _____
- a) In the *SAP Easy Access* menu of your FES, search for *Object Navigator* or start transaction `SE80`.
 - b) In the *Object Category* menu, choose *BSP Application*.
 - c) In the *Object Name* field, enter `HCMFAB_LEAV_MAN` and press Enter.
 - d) Expand the tree node `HCMFAB_LEAV_MAN` → *Page Fragments*.
 - e) Double-click the `Component.js` page.
 - f) Search for the SAPUI5 component path `hcm.fab.myleaverequest` in the `Component.js`.
4. Create the launchpad role **ZUIHR##** with instance **TRANSACTIONAL** and description **UI Launchpad Role ##** using the Launchpad customizing (`LPD_CUST`) of your FES.



Hint:

There is no need for a namespace for SAP Fiori apps.

- a) In the *SAP Easy Access* menu of your FES, search for *Launchpad customizing* or start transaction `LPD_CUST`.
- b) Choose *Create New Launchpad*.
- c) In the dialog box, enter these values:

Field	Value
<i>Role</i>	ZUIHR##
<i>Instance</i>	TRANSACTIONAL
<i>Description</i>	UI Launchpad Role ##

- d) Choose *Continue*.
- e) If a dialog box appears to confirm that there is no namespace set, choose Yes.

5. Add the *My Leave Request* app to the *ZUIHR##* launchpad role with the SAPUI5 application name, ICF, and component path you noted down using the Launchpad customizing (*LPD_CUST*) of your FES. Set the application alias of the app to **MyLeaveRequest**.
 - a) In the *ZUIHR##* launchpad role, choose *New Application*.
 - b) In the *Link Text* field, enter **My Leave Request**.
 - c) In the *Application Type* menu, choose **URL**.
 - d) Open the editor of the *URL* field.
 - e) In the *URL Editor*, enter **/sap/bc/ui5_ui5/sap/hcmfab_leav_man**.
 - f) Close the *URL Editor*.
 - g) Choose *Show Advanced (Optional) Parameters*.
 - h) Open the editor of the *Application Alias* field.
 - i) In the *Application Alias Editor*, enter **MyLeaveRequest**.
 - j) Close the *Application Alias Editor*.
 - k) In the *Additional Information* field, enter **SAPUI5.Component=hcm.fab.myleaverequest**.
 - l) Choose *Save*.
6. Create a target mapping to the *My Leave Request* app of the *ZUIHR##* launchpad role in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **manage##**.
 - a) In the *SAP Fiori launchpad designer* of your FES, enter **z_##** in the *Search for catalogs* field.
 - b) Choose *Employee ##* from the list of catalogs.
 - c) Choose *Target Mappings* at the top of the page.
 - d) Choose *Create Target Mapping*.
 - e) In the *Intent* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	LeaveRequest
<i>Action</i>	manage##

- f) In the *Application Type* menu, choose *SAP Fiori App using LPD_CUST*.
- g) In the *Target* pane, enter the following values:

Field	Value
<i>Launchpad Role</i>	ZUIHR##
<i>Launchpad Instance</i>	TRANSACTIONAL

Field	Value
<i>Application Alias</i>	MyLeaveRequest

h) Choose *Save*.

7. Create the static tile **My Leave Request ##** with the subtitle **LPD_CUST** in the **Z_##_BC_EMPLOYEE** catalog in your FES using the semantic object you noted down and the action **manage##**.

a) Choose *Tiles* next to *Target Mappings*.

b) Choose *Create Tile*.

c) Choose *App Launcher – Static*.

d) In the *General* pane, enter the following values:

Field	Value
<i>Title</i>	My Leave Request ##
<i>Subtitle</i>	LPD_CUST
<i>Icon</i>	<your choice>

e) In the *Navigation* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	LeaveRequest
<i>Action</i>	manage##

f) Choose *Save*.

8. Add the *My Leave Request ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.

b) Choose your user in the upper left corner.

c) In the *Me Area*, choose *Edit Home Page*.

d) Click the tile placeholder containing a + of the *My Home* group.

e) In the list of catalogs on the left, choose *Employee ##*.

f) Click the pin of the *My Leave Request ##* tile.

g) Choose *Back*.

h) Choose *Close* in the lower right corner.

i) Operate the app as you wish.

Unit 4

Exercise 18

Create SAPUI5 Target Mappings

Business Example

Use information from the SAP Fiori apps reference library to create a dynamic tile and target mapping for an SAPUI5 app.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *My Benefits (Version 3/Fiori 2.0)* app for the release of your BES and note down the name of the SAPUI5 application, path to ICF node, OData service, SAPUI5 component, semantic object, and action.
SAPUI5 application: _____
Path to ICF node: _____
SAPUI5 component: _____
OData service: _____
Semantic object: _____
Action: _____
2. Create a target mapping to the *My Benefits* app in the *Z_##_BC_EMPLOYEE* catalog in your FES using the SAPUI5 application name, ICF, and component path, and semantic object you noted down as well as the action **display##**.
3. Create the dynamic tile **My Benefits ##** with the subtitle **SAPUI5** in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **display##**. For the service URL, use the OData service you noted down and add the entity set `Summary` to the request.
4. Add the *My Benefits ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

Create SAPUI5 Target Mappings

Business Example

Use information from the SAP Fiori apps reference library to create a dynamic tile and target mapping for an SAPUI5 app.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *My Benefits (Version 3/Fiori 2.0)* app for the release of your BES and note down the name of the SAPUI5 application, path to ICF node, OData service, SAPUI5 component, semantic object, and action.

SAPUI5 application: _____

Path to ICF node: _____

SAPUI5 component: _____

OData service: _____

Semantic object: _____

Action: _____

- a) In the *SAP Fiori apps reference library*, choose *All Apps*.
- b) In the *Search by App name* field, enter **benefits**.
- c) Choose *My Benefits (Version 3/Fiori 2.0)*.
- d) In the *Product Suite* menu, choose *SAP S/4HANA*.
- e) Choose the *Implementation Information* tab.
- f) In the *Back-End Version* menu, choose the release of your BES.
- g) Expand the *Configuration* node.
- h) In the *SAPUI5 Application* pane, note down the *Technical Name* **HCMFAB_BENF_MON**, the *Path to ICF Node* **/sap/bc/ui5_ui5/sap/hcmfab_benf_mon**, and the *SAPUI5 Component* **hcm.fab.mybenefits**.

- i) In the *OData Service(s)* pane, note down the *OData Service* **HCMFAB_MYBENEFITS_SRV**.
 - j) In the *Target Mapping(s)* pane, note down the *Semantic Object* **BenefitPlan** and *Action* **display**.
2. Create a target mapping to the *My Benefits* app in the *Z_##_BC_EMPLOYEE* catalog in your FES using the SAPUI5 application name, ICF, and component path, and semantic object you noted down as well as the action **display**.
- a) In the *Search for catalogs* field in the *SAP Fiori launchpad designer* of your FES, enter **z_##**.
 - b) Choose *Employee ##* from the list of catalogs.
 - c) Choose *Target Mappings* at the top of the page.
 - d) Choose *Create Target Mapping*.
 - e) In the *intent pane*, enter the following values:

Field	Value
<i>Semantic Object</i>	BenefitPlan
<i>Action</i>	display##

- f) In the *Application Type* menu, choose *SAPUI5 Fiori App*.
- g) In the *Target pane*, enter the following values:

Field	Value
<i>Title</i>	My Benefits
<i>URL</i>	/sap/bc/ui5_ui5/sap/hcmfab_benf_mon
<i>ID</i>	hcm.fab.mybenefits

- h) Choose *Save*.
3. Create the dynamic tile **My Benefits ##** with the subtitle **SAPUI5** in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **display**. For the service URL, use the OData service you noted down and add the entity set *Summary* to the request.
- a) Choose *Tiles* next to *Target Mappings*.
 - b) Choose *Create Tile*.
 - c) Choose *App Launcher – Dynamic*.
 - d) In the *General pane*, enter the following values:

Field	Value
<i>Title</i>	My Benefits ##
<i>Subtitle</i>	SAPUI5

Field	Value
<i>Icon</i>	<your choice>

e) In the *Service URL* field, enter **/sap/opu/odata/sap/HCMFAB_MYBENEFITS_SRV/Summary**.

f) In the *Navigation* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	BenefitPlan
<i>Action</i>	display##

g) Choose *Save*.

4. Add the *My Benefits ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.

b) Choose your user in the upper left corner.

c) In the *Me Area*, choose *Edit Home Page*.

d) Click the tile placeholder containing a + of the *My Home* group .

e) In the *All catalogs* menu, choose *Employee ##*.

f) Click the pin of the *My Benefits ##* tile.

g) Choose *Back*.

h) Choose *Close* in the lower right corner.

i) Operate the app as you wish.

Create Web Dynpro Target Mappings

Business Scenario

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for a Web Dynpro application.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *Sales Volume* app for the release of your BES and note down the name of the technical catalog, system alias, semantic object, action, Web Dynpro application, and configuration.
Technical catalog: _____
System alias: _____
Web Dynpro application: _____
Web Dynpro configuration: _____
Semantic object: _____
Action: _____
2. Check the availability of the *Sales Volume* app in the repository of your Back-End Server (BES).
3. Create a target mapping to the *Sales Volume* app in the *Z_##_BC_EMPLOYEE* catalog in your Front-End Server (FES) using the Web Dynpro application and configuration, system alias, semantic object you noted down as well as the action **analyzeRevenue##**.
4. Create the static tile **Sales Volume ##** with the subtitle **Web Dynpro** in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you noted down and the action **analyzeRevenue##**.
5. Add the *Sales Volume ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

Create Web Dynpro Target Mappings

Business Scenario

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for a Web Dynpro application.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *Sales Volume* app for the release of your BES and note down the name of the technical catalog, system alias, semantic object, action, Web Dynpro application, and configuration.

Technical catalog: _____

System alias: _____

Web Dynpro application: _____

Web Dynpro configuration: _____

Semantic object: _____

Action: _____

- a) In the *SAP Fiori apps reference library*, choose *All Apps*.
- b) In the *Search by App name* field, enter **sales volume**.
- c) Choose *Sales Volume — Flexible Analysis / Sales Volume*.
- d) In the *Product Suite* menu, choose *SAP S/4HANA*.
- e) Choose the *Implementation Information* tab.
- f) In the *Back-End Version* menu, choose the release of your BES.
- g) Expand the *Configuration* node.
- h) In the *Technical Configuration* pane, note down the *Technical Catalog* **SAP_TC_CEC_SD_BE_APPS**, the *System Alias* **S4SD**, and the *Web Dynpro Application* and *Web Dynpro Configuration* **SD_FPM_OVP_SALESVOLUME**.

- i) In the *Target Mapping(s)* pane, note down the *Semantic Object* **BillingDocument** and *Action* **analyzeRevenue**.
2. Check the availability of the *Sales Volume* app in the repository of your Back-End Server (BES).
 - a) In the *SAP Easy Access* menu of your BES, search for *Object Navigator* or start transaction **SE80**.
 - b) Choose *Edit Object*.
 - c) In the *Development Object* field, enter **SD_FPM_OVP_SALESVOLUME**.
 - d) Choose *Continue*.
 - e) Choose *Display Object List*.
 - f) Expand *Web Dynpro Applications* → **SD_FPM_OVP_SALESVOLUME** → *Appl. Configurations*.
 - g) Double-click **SD_FPM_OVP_SALESVOLUME**.
3. Create a target mapping to the *Sales Volume* app in the **Z_##_BC_EMPLOYEE** catalog in your Front-End Server (FES) using the Web Dynpro application and configuration, system alias, semantic object you noted down as well as the action **analyzeRevenue##**.
 - a) In the *Search for catalogs* field in the SAP Fiori launchpad designer of your FES, enter **z_##**.
 - b) Choose *Employee ##* in the list of catalogs.
 - c) Choose *Target Mappings* at the top of the page.
 - d) Choose *Create Target Mapping*.
 - e) In the *Intent* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	BillingDocument
<i>Action</i>	analyzeRevenue##
 - f) In the *Application Type* menu, choose *Web Dynpro*.
 - g) In the *Target* pane, enter the following values:

Field	Value
<i>Title</i>	Sales Volume
<i>Application</i>	SD_FPM_OVP_SALESVOLUME
<i>Configuration</i>	SD_FPM_OVP_SALESVOLUME
<i>System Alias</i>	S4SD
 - h) Deselect the *Tablet* checkbox and the *Phone* checkbox.
 - i) Choose *Save*.

4. Create the static tile **Sales Volume ##** with the subtitle **Web Dynpro** in the **Z_##_BC_EMPLOYEE** catalog in your FES using the semantic object you noted down and the action **analyzeRevenue##**.

- a) Choose *Tiles* next to *Target Mappings*.
- b) Choose *Create Tile*.
- c) Choose *App Launcher – Static*.
- d) In the *General* pane, enter the following values:

Field	Value
<i>Title</i>	Sales Volume ##
<i>Subtitle</i>	Web Dynpro
<i>Icon</i>	<your choice>

- e) In the *Navigation* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	BillingDocument
<i>Action</i>	analyzeRevenue##

- f) Choose *Save*.
5. Add the *Sales Volume ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.
- a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose your user in the upper left corner.
 - c) In the *Me Area*, choose *Edit Home Page*.
 - d) Click the tile placeholder containing a + of the *My Home* group.
 - e) In the list of catalogs on the left, choose *Employee ##*.
 - f) Click the pin of the *Sales Volume ##* tile.
 - g) Choose *Back*.
 - h) Choose *Close* in the lower right corner.
 - i) Operate the application as you wish.

Create Transaction Target Mappings

Business Example

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for an ABAP transaction.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *Display Sales Order* app for the release of your BES and note down the name of a technical catalog, system alias, semantic object, action, and the transaction code.
Technical catalog: _____
System alias: _____
Transaction code: _____
Semantic object: _____
Action: _____
2. Search for the *Display Sales Order* transaction (VA03) in the repository of your Back-End Server (BES).
3. Create a target mapping to the *Display Sales Order* ABAP transaction (VA03) for desktop usage in the Z_##_BC_EMPLOYEE catalog in your Front-End Server (FES) using the semantic object you noted down and the action **display##** for the system alias S4SD.
4. Create the static tile **Display Sales Order ##** with the subtitle **Transaction** in the Z_##_BC_EMPLOYEE catalog in your FES using the semantic object you have noted down and the action **display##**.
5. Add the *Display Sales Order ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.

Create Transaction Target Mappings

Business Example

Use information from the SAP Fiori apps reference library to create a static tile and target mapping for an ABAP transaction.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. In the SAP Fiori apps reference library, search for the *Display Sales Order* app for the release of your BES and note down the name of a technical catalog, system alias, semantic object, action, and the transaction code.

Technical catalog: _____

System alias: _____

Transaction
code: _____

Semantic object: _____

Action: _____

- a) In the *SAP Fiori apps reference library*, choose *All Apps*.
- b) In the *Search by App name* field, enter **display sales orders**.
- c) Choose *Display Sales Order*.
- d) In the *Product Suite* menu, choose *SAP S/4HANA*.
- e) Choose the *Implementation Information* tab.
- f) In the *Back-End Version* menu, choose the release of your BES.
- g) Expand the *Configuration* node.
- h) In the *Technical Configuration* pane, note down the *Technical Catalog* **SAP_TC_CEC_SD_BE_APPS**, the *System Alias* **S4SD**, and the *Transaction Code* **VA03**.
- i) In the *Target Mapping(s)* pane, note down the *Semantic Object* **SalesOrder** and *Action* **display**.

2. Search for the *Display Sales Order* transaction (VA03) in the repository of your Back-End Server (BES).
 - a) In the *SAP Easy Access* menu of your BES, search for *Object Navigator* or start transaction SE80.
 - b) Choose *Edit Object*.
 - c) In the *Development Object* field, enter **va03**.
 - d) Choose *Continue*.
3. Create a target mapping to the *Display Sales Order* ABAP transaction (VA03) for desktop usage in the *Z_##_BC_EMPLOYEE* catalog in your Front-End Server (FES) using the semantic object you noted down and the action **display##** for the system alias S4SD.
 - a) In the *SAP Fiori launchpad designer* of your FES, enter **z_##** in the *Search for catalogs* field.
 - b) Choose *Employee ##* in the list of catalogs.
 - c) Choose *Target Mappings* at the top of the page.
 - d) Choose *Create Target Mapping*.
 - e) In the *Intent* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	SalesOrder
<i>Action</i>	display##

- f) In the *Application Type* menu, choose *Transaction*.
 - g) In the *Target* pane, enter the following values:
- | Field | Value |
|---------------------|----------------------------|
| <i>Title</i> | Display Sales Order |
| <i>Transaction</i> | VA03 |
| <i>System Alias</i> | S4SD |
- h) Deselect the *Tablet* checkbox and the *Phone* checkbox.
 - i) Choose *Save*.
 4. Create the static tile **Display Sales Order ##** with the subtitle **Transaction** in the *Z_##_BC_EMPLOYEE* catalog in your FES using the semantic object you have noted down and the action **display##**.
 - a) Choose *Tiles* next to *Target Mappings*.
 - b) Choose *Create Tile*.
 - c) Choose *App Launcher – Static*.
 - d) In the *General* pane, enter the following values:

Field	Value
<i>Title</i>	Display Sales Order ##
<i>Subtitle</i>	Transaction
<i>Icon</i>	<your choice>

- e) In the *Navigation* pane, enter the following values:

Field	Value
<i>Semantic Object</i>	SalesOrder
<i>Action</i>	display##

- f) Choose *Save*.
5. Add the *Display Sales Order ##* tile from the *Employee ##* catalog to the *My Home* group and test it in the SAP Fiori launchpad of your FES.
- a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
- b) Choose your user in the upper left corner.
- c) In the *Me Area*, choose *Edit Home Page*.
- d) Click the tile placeholder containing a + of the *My Home* group.
- e) In the list of catalogs on the left, choose *Employee ##*.
- f) Click the pin of the *Display Sales Order ##* tile.
- g) Choose *Back*.
- h) Choose *Close* in the lower-right corner.
- i) Operate the transaction as you wish.

Unit 4

Exercise 21

Create Back-End Catalogs

Business Example

Use the Mass Maintenance for App Descriptors to create a back-end catalog with an app descriptor for an ABAP transaction.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for the *Display Material* transaction (MM03) in the back-end catalog **SAP_TC_CA_PR_BE_APPS** using the Mass Maintenance for App Descriptors (MM_APP) of your Back-End Server (BES) and note down the semantic object and action.
Semantic object: _____
Action: _____
2. In the Mass Maintenance for App Descriptors (MM_APP) of your BES, create the back-end catalog **Z_##_TC_CMD_BE_APPS** as local object. Include the transaction *Display Material* (MM03) with the semantic object you noted down and the action **display##** in your catalog. Change the *Title* to **Display Material ##**.
3. Search for the back-end catalog **SAP_TC_CA_PR_BE_APPS** using the view **/UI2/V_ALIASCAT** in the View Maintenance (SM30) of your Front-End Server (FES) and note down the alias.
Alias: _____
4. Assign the alias you noted down to your back-end catalog **Z_##_TC_CMD_BE_APPS** in the view **/UI2/VC_ALIASCAT** using the View Maintenance (SM30) of FES.
5. Replicate your catalog **Z_##_TC_CMD_BE_APPS** using the alias you noted down to your FES running the report **/UI2/GET_APP_DESCR_REMOTE_DEV** in transaction **ABAP Reporting (SA38)**.
6. Create a reference for *Display Material ##* and its target mapping of the **Z_##_TC_CMD_BE_APPS** catalog in your catalog **Employee ##**.
7. Add the *Display Material ##* tile from the *Employee ##* catalog to the *My Home* group and test them in the SAP Fiori launchpad of your FES.

Create Back-End Catalogs

Business Example

Use the Mass Maintenance for App Descriptors to create a back-end catalog with an app descriptor for an ABAP transaction.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for the *Display Material* transaction (MM03) in the back-end catalog **SAP_TC_CA_PR_BE_APPS** using the Mass Maintenance for App Descriptors (MM_APP) of your Back-End Server (BES) and note down the semantic object and action.
Semantic object: _____
Action: _____
 - a) In the *SAP Easy Access* menu of your BES, search for *Mass Maintenance for App Descriptors* or start transaction MM_APP.
 - b) In the *Catalog ID* field, enter **SAP_TC_CA_PR_BE_APPS** using the value help.
 - c) Choose *Continue*.
 - d) In the *Search* field, enter **mm03** and press Enter.
 - e) Note down the *Semantic Object* **Material** and Action **display**.
 - f) Choose *Back*.
2. In the Mass Maintenance for App Descriptors (MM_APP) of your BES, create the back-end catalog **Z_##_TC_CMD_BE_APPS** as local object. Include the transaction *Display Material* (MM03) with the semantic object you noted down and the action **display##** in your catalog. Change the *Title* to **Display Material ##**.
 - a) In the *Catalog ID* field, enter **Z_##_TC_CMD_BE_APPS**.
 - b) Choose *Continue*.
 - c) In the *Warning* popup, choose *OK*.
 - d) Choose *Multiselect Transactions*.

- e) Choose *Local Object*.
 - f) In the *Transaction Code* field, enter **mm03**.
 - g) Choose *Go*.
 - h) Select the checkbox of the line for **MM03** in the list of *Items*.
 - i) Choose *OK*.
 - j) In the *Semantic Object* field in the new line, enter **Material**.
 - k) In the *Semantic Action* field in the new line, enter **display##**.
 - l) Select the checkbox of the line for **MM03**.
 - m) In the *All Fields* pane, deselect the *Reuse Text* checkbox.
 - n) In the *Title* field, replace the & with **##**.
 - o) Choose *Save*.
3. Search for the back-end catalog **SAP_TC_CA_PR_BE_APPS** using the view **/UI2/V_ALIASCAT** in the View Maintenance (SM30) of your Front-End Server (FES) and note down the alias.
- Alias: _____
- a) In the *SAP Easy Access* menu of your FES, search for *Call View Maintenance* or start transaction **SM30**.
 - b) Choose *Display*.
 - c) In the *Table/View* field, enter **/UI2/V_ALIASCAT**.
 - d) Choose *Position...* at the bottom of the list.
 - e) In the *Catalog ID* field, enter **SAP_TC_CA_PR_BE_APPS**.
 - f) Choose *Continue*.
 - g) Note down the *Alias* **S4CMD**.
 - h) Choose *Back*.
4. Assign the alias you noted down to your back-end catalog **Z_##_TC_CMD_BE_APPS** in the view **/UI2/VC_ALIASCAT** using the View Maintenance (SM30) of FES.
- a) In the *Table/View* field, enter **/UI2/VC_ALIASCAT**.
 - b) Choose *Display*.
 - c) Choose *Display* → *Change*.
 - d) In the *Information* popup, choose *Continue*.
 - e) Choose *New Entries*.
 - f) In the *Catalog ID* field, enter **Z_##_TC_CMD_BE_APPS**.
 - g) In the *Alias* field, enter **S4CMD**.
 - h) Choose *Save*.

- i) Choose the transport request provided by your trainer.
 - j) Choose *Continue*.
5. Replicate your catalog **Z_##_TC_CMD_BE_APPS** using the alias you noted down to your FES running the report **/UI2/GET_APP_DESCR_REMOTE_DEV** in transaction *ABAP Reporting* (SA38).
- a) In the *SAP Easy Access* menu of your FES, search for *ABAP Reporting* or start transaction SA38.
 - b) In the *Program* field, enter **/UI2/GET_APP_DESCR_REMOTE_DEV**.
 - c) Choose *Execute*.
 - d) In the *Replication System Alias* field, enter **S4CMD**.
 - e) In the *Backend Technical Catalog ID* field, enter **Z_##_TC_CMD_BE_APPS**.
 - f) In the *Replication Mode* dropdown, select **Full replication**.
 - g) Deselect the *Testmode* checkbox.
 - h) Choose *Execute*.
 - i) Examine the messages that the catalog **Z_##_TC_CMD_BE_APPS** was extracted successfully.
6. Create a reference for *Display Material ##* and its target mapping of the **Z_##_TC_CMD_BE_APPS** catalog in your catalog **Employee ##**.
- a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
 - b) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - c) Choose **Z_##_TC_CMD_BE_APPS** from the list of catalogs.
 - d) Choose *Target Mappings* at the top of the page.
 - e) Select the *Semantic Object* **Material** with Action **display##**.
 - f) Choose *Create Reference*.
 - g) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - h) Choose your *Employee ##* catalog.
 - i) Choose *Tiles* next to *Target Mappings*.
 - j) Select the *Display Material* tile from the list of tiles.
 - k) Choose *Create Reference*.
 - l) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - m) Choose your *Employee ##* catalog.
7. Add the *Display Material ##* tile from the *Employee ##* catalog to the *My Home* group and test them in the *SAP Fiori launchpad* of your FES.
- a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose your user in the upper-left corner.

- c) In the *Me Area*, choose *Edit Home Page*.
- d) Click the tile placeholder containing a + of the *My Home* group.
- e) In the list of catalogs on the left, choose *Employee ##*.
- f) Click the pin of the *Display Material* tile.
- g) Choose *Back*.
- h) Choose *Close* in the lower-right corner.
- i) Operate the app as you wish.

Deactivate Personalization

Business Scenario

Manage the personalization options of the SAP Fiori launchpad for a certain group of users.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **Z_##_BC_PERS_OFF** with the title **Disable Personalization ##** by referencing the `/UI2/CONFIG_PERS_OFF` catalog in your Front-End Server (FES).
2. In the target mapping for the *Shell* semantic object of the `Z_##_PERS_OFF` catalog, change the default value of the `renderers/fiori2/componentData/config/enableSetTheme` parameter to **true**.
3. Add the `Z_##_BC_PERS_OFF` catalog to the menu of the `Z_##_BR_TRAINING` role in the Role Maintenance (PFCG) of your FES.
4. Test if the personalization in the *SAP Fiori launchpad* of your FES is disabled and changing the theme is still possible.

Deactivate Personalization

Business Scenario

Manage the personalization options of the SAP Fiori launchpad for a certain group of users.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the catalog **Z_##_BC_PERS_OFF** with the title **Disable Personalization ##** by referencing the **/UI2/CONFIG_PERS_OFF** catalog in your Front-End Server (FES).
 - a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
 - b) In the *Search for catalogs* field, enter **pers**.
 - c) Click and hold the *SAP:Configuration for disabling Personalization (/UI2/CONFIG_PERS_OFF)* catalog.
 - d) Drag and drop the catalog in the *New Catalog with References* area.
 - e) In the *Title* field of the *Copy Catalog* dialog box, enter **Disable Personalization ##**.
 - f) In the *ID* field, enter **Z_##_BC_PERS_OFF**.
 - g) Choose *Copy*.
2. In the target mapping for the *Shell* semantic object of the **Z_##_PERS_OFF** catalog, change the default value of the *renderers/fiori2/componentData/config/enableSetTheme* parameter to **true**.
 - a) In the **Z_##_BC_PERS_OFF** catalog, choose *Target Mappings* at the top of the page.
 - b) Select the *Semantic Object* **Shell** with *Action* **bootConfig**.
 - c) Choose *Configure*.
 - d) Enlarge the width of the *Name* column of the *Parameters* table until you can fully read the names.
 - e) In the *Default Value* cell of the *renderers/fiori2/componentData/config/enableSetTheme* parameter, enter **true**.

- f) Choose *Save*.
- g) In the *Confirmation* dialog box about breaking the reference, choose *OK*.
- 3. Add the `Z_##_BC_PERS_OFF` catalog to the menu of the `Z_##_BR_TRAINING` role in the Role Maintenance (`PFECG`) of your FES.
 - a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction `PFECG`.
 - b) In the *Role* field, enter `Z_##_BR_TRAINING`.
 - c) Choose *Change*.
 - d) Choose the *Menu* tab.
 - e) Choose the small triangle in the *Insert Node* button.



Hint:
The initial value written on the *Insert Node* button is *Transaction*.

- f) Choose *SAP Fiori Tile Catalog*.
- g) In the *Catalog ID* field, enter `z_##*` and use the value help.
- h) In the dialog box, double click `Z_##_BC_PERS_OFF`.
- i) Choose *Continue*.



Note:
If the *Not all applications are available in system* dialog box appears, continue by choosing *Cancel*.

- j) Choose *Save*.
- 4. Test if the personalization in the *SAP Fiori launchpad* of your FES is disabled and changing the theme is still possible.
 - a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose your user in the upper left corner.
 - c) Mention that the buttons *App Finder* and *Edit Home Page* disappeared.
 - d) In the *Me Area*, choose *Settings*.
 - e) Choose *Appearance*.
 - f) Mention that it is still allowed to change the theme.



Note:
To enable personalization again for later exercises, you should go back to transaction `PFECG` and delete the `Z_##_BC_PERS_OFF` catalog from your role.

Enable SAP Fiori Smart Business

Business Scenario

Use information from the SAP Fiori apps reference library to enable a user to operate SAP Fiori Smart Business.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for apps used by an **analytics specialist** for the release of your BES in the SAP Fiori apps reference library and aggregate all configuration requirements. Note down the business catalog and group for the *KPI Workspace* app.
Business catalog: _____
Group: _____
2. Add the business catalog and group you noted down to the menu of the *Z_##_BR_TRAINING* role in the Role Maintenance (PFCG) of your Front-End Server (FES).
3. Check if the *KPI Design* group is part of the SAP Fiori launchpad of your FES.

Enable SAP Fiori Smart Business

Business Scenario

Use information from the SAP Fiori apps reference library to enable a user to operate SAP Fiori Smart Business.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for apps used by an **analytics specialist** for the release of your BES in the SAP Fiori apps reference library and aggregate all configuration requirements. Note down the business catalog and group for the *KPI Workspace* app.

Business catalog: _____

Group: _____

- a) In the *SAP Fiori apps reference library*, choose *SAP Fiori apps for SAP S/4HANA*.
- b) Choose *by Roles*.
- c) In the *Search by Role* field, enter **analytics** and press Enter.
- d) Choose *Analytics Specialist*.
- e) Choose *Select all* above the list of apps.
- f) Choose *Aggregate* beneath the list of apps.
- g) Select the release of your BES as delivery date.
- h) If available, choose *Selected apps not available in <your BES release>*.
- i) Choose *Remove unavailable apps*.
- j) Expand *Aggregated Configuration Requirements*.
- k) Choose *SAP Fiori Launchpad*.
- l) Note down the *Business Catalog* **SAP_CA_BC_SSB** and the *Business Group* **SAP_CA_BCG_SSB**.

2. Add the business catalog and group you noted down to the menu of the `Z_##_BR_TRAINING` role in the Role Maintenance (`PF08`) of your Front-End Server (FES).
 - a) In the SAP Easy Access menu of your FES, search for *Role Maintenance* or start transaction `PF08`.
 - b) In the *Role* field, enter `Z_##_BR_TRAINING`.
 - c) Choose *Change*.
 - d) Choose the *Menu* tab.
 - e) Choose the small triangle in the *Insert Node* button.



Hint:
The initial value written on the *Insert Node* button is *Transaction*.

- f) Choose *SAP Fiori Tile Catalog*.
- g) In the *Catalog ID* field, enter `*ssb` and use the value help.
- h) In the dialog box, double click `SAP_CA_BC_SSB`.
- i) Choose *Continue*.



Note:
If the *Not all applications are available in system* dialog box appears, continue by choosing *Cancel*.

- j) Choose the small triangle in the *Insert Node* button.
 - k) Choose *SAP Fiori Tile Group*.
 - l) In the *Group ID* field, enter `*ssb` and use the value help.
 - m) In the dialog box, double click `SAP_CA_BCG_SSB`.
 - n) Choose *Continue*.
 - o) Choose *Save*.
3. Check if the *KPI Design* group is part of the SAP Fiori launchpad of your FES.
 - a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose the *KPI Design* anchor at the top.
 - c) Operate the apps as you wish.

Unit 4

Exercise 24

Model SAP Fiori KPI Apps

Business Scenario

Create an SAP Fiori KPI with evaluation, tile, and drill-down. Add the KPI tile to the SAP Fiori launchpad and save a facet of the KPI as tile.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the KPI **Available Flight Seats ##** based on the field **NumberOfAvailableSeats** of the CDS view **C_UX100FlightByAirportQry** with the goal type **lower is better** as the local object.



Hint:
For a better visualization, open the SAP Fiori launchpad in Google Chrome.

2. Create the evaluation **Per Destination** for the *Available Flight Seats ##* KPI with the thresholds **50000** for *critical*, **25000** for *warning*, and **0** for *target*.
3. Create a dual tile in your *Employee ##* catalog for the *Per Destination* evaluation with descending measure and the semantic object **NumberOfAvailableSeats** with action **analyze##**.
4. Configure the drill-down **Departure/Destination (%)** for the *Per Destination* evaluation consisting of the dimensions **departure airport** and **destination airport** and the measures **occupied economy** and **available seats** in percent.
5. Add the *Available Flight Seats ## (Per Destination)* tile from the *Employee ##* catalog to the *My Home* group in the SAP Fiori launchpad of your FES.
6. Test the *Available Flight Seats ## (Per Destination)* tile and save a facet for the destination airport **Frankfurt** as tile with the same thresholds.

Model SAP Fiori KPI Apps

Business Scenario

Create an SAP Fiori KPI with evaluation, tile, and drill-down. Add the KPI tile to the SAP Fiori launchpad and save a facet of the KPI as tile.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create the KPI **Available Flight Seats ##** based on the field **NumberOfAvailableSeats** of the CDS view **C_UX100FlightByAirportQry** with the goal type **lower is better** as the local object.



Hint:
For a better visualization, open the SAP Fiori launchpad in Google Chrome.

- a) Open the *SAP Fiori launchpad* in Google Chrome.
- b) Choose the *Create KPI* tile.
- c) In the *Parameters* pane, enter the following data:

Field	Value
<i>Title</i>	Available Flight Seats ##
<i>Description</i>	Number of available flight seats of group ##
<i>Goal Type</i>	Minimizing (Lower is better)

- d) In the *Data Source* pane, enter the following data using the value help:

Field	Value
<i>CDS View</i>	C_UX100FLIGHTBYAIRPORTQRY

Field	Value
Select OData Service	/sap/opu/odata/sap/C_UX100FLIGHTBYAIRPORTQRY_CDS
Entity Set	C_UX100FLIGHTBYAIRPORTQRY
Value Measure	NumberOfAvailableSeats

- e) Choose *Activate and Add Evaluation*.
 - f) In the *Save Transport* dialog box, choose *Local Object*.
2. Create the evaluation **Per Destination** for the *Available Flight Seats ##* KPI with the thresholds **50000** for *critical*, **25000** for *warning*, and **0** for *target*.
- a) In the *Evaluation* field, enter **Per Destination**.
 - b) In the *Target, Thresholds, and Trend* pane, enter the following data:

Field	Value
(3) Critical	50000
(2) Warning	25000
(1) Target	0

- c) Choose *Activate and Configure Tile*.
3. Create a dual tile in your *Employee ##* catalog for the *Per Destination* evaluation with descending measure and the semantic object **NumberOfAvailableSeats** with action **analyze##**.
- a) In the *Tile Format* menu, choose **Dual Tile**.
 - b) In the *Catalog* field, open the value help.
 - c) In the *Search* field, enter **##**.
 - d) Select your *Employee ##* catalog.
 - e) In the *Sorting Order* menu, choose *Measure Descending*.
 - f) In the *Semantic Object* field, enter **NumberOfAvailableSeats**.
 - g) In the *Action* field, enter **analyze##**.
 - h) Choose *Save and Configure Drill-Down*.
4. Configure the drill-down **Departure/Destination (%)** for the *Per Destination* evaluation consisting of the dimensions **departure airport** and **destination airport** and the measures **occupied economy** and **available seats** in percent.
- a) Choose *Configure*.
 - b) In the *Dimension* tab, choose **Departure Airport** and **Destination Airport**.
 - c) In the *Measure* tab, choose **Occupied econ.** and **Available Seats (Main Measure)**.

- d) Choose *OK*.
 - e) For *Available Seats*, choose *settings*.
 - f) In the *Sort Order* menu, choose *Descending*.
 - g) Choose *OK*.
 - h) In the *Visualization Type* pane, change the *Scaling* to **Percentage Values**.
 - i) In the *View Title* field, enter **Departure/Destination (%)**.
 - j) In the *Data* field, change *Dummy Data* to **Actual Backend Data**.
 - k) Choose *OK*.
 - l) Choose *Save Configuration*.
 - m) Choose *Home*.
5. Add the *Available Flight Seats ## (Per Destination)* tile from the *Employee ##* catalog to the *My Home* group in the SAP Fiori launchpad of your FES.
- a) In the *SAP Fiori launchpad*, choose your user in the upper left corner.
 - b) Choose *Edit Home Page*.
 - c) Click the tile placeholder containing a + of the *My Home* group.
 - d) Choose the *Z_##_BC_EMPLOYEE* catalog on the left.
 - e) Click the pin of the *Available Flight Seats ## (Per Destination)* tile.
 - f) Choose *Back*.
 - g) Choose *Close* in the lower right corner.
6. Test the *Available Flight Seats ## (Per Destination)* tile and save a facet for the destination airport **Frankfurt** as tile with the same thresholds.
- a) Choose the *Available Flight Seats ## (Per Destination)* tile.
 - b) Choose *Add Filter* in the upper left corner.
 - c) Choose *Departure Airport*.
 - d) Choose **FRA** and then choose *OK*.
 - e) Choose *action* → *Save as Tile* in the lower right corner.
 - f) In the *Subtitle* field in the *Save as Tile* dialog box, enter **Frankfurt**.
 - g) Choose *OK*.
 - h) Choose *Back*.
 - i) Choose the *Available Flight Seats ## (Frankfurt)* tile.



Hint:
You may need to reload the SAP Fiori launchpad.

Unit 5

Exercise 25

Create SAP Fiori Themes

Business Example

Create and test a theme for SAP Fiori launchpad using the UI Theme Designer.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create a theme based on the **SAP Belize** theme for the SAP Fiori launchpad of your Front-End Server (FES) using the UI Theme Designer.
2. Define a color palette parameter called **CornPoppyRed** in your theme with the hexadecimal value **E00025**.
3. Change the SAP text color in your theme to **CornPoppyRed**.
4. Set the `FioriMeadow.jpg` image from the course folder on the training share as *Shell Background Image/Gradient* for your theme with an opacity of **0.7**.



Note:
Course folders on the training share can be found at `s:\Courses`.

5. Save and build your theme as **z_CORNPOPPY_##** with the description **Corn Poppy Meadow ##**. Run a preview of your theme in the *UI Theme Designer*.

Create SAP Fiori Themes

Business Example

Create and test a theme for SAP Fiori launchpad using the UI Theme Designer.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Create a theme based on the **SAP Belize** theme for the SAP Fiori launchpad of your Front-End Server (FES) using the UI Theme Designer.
 - a) In the *SAP Easy Access* menu of your FES, search for *UI Theme Designer* or start transaction `/UI5/THEME_DESIGNER`.
 - b) In the *UI Theme Designer*, choose *Create a New Theme*.
 - c) In the *Base Theme* menu, choose *SAP Belize*.
 - d) Choose *Create Theme*.
 - e) In the *Link to Application* field, enter `/sap/bc/ui2/flp`.
 - f) In the *Name of Application* field, enter **SAP Fiori Launchpad**.
 - g) Choose *Add*.
2. Define a color palette parameter called **CornPoppyRed** in your theme with the hexadecimal value **E00025**.
 - a) Choose *Palette* on the outer-right side.
 - b) In the *New parameter name* field, enter **CornPoppyRed**.
 - c) For the *New parameter color* field, open the value help.
 - d) In the *#* field, enter **e00025**.
 - e) Choose *OK*.
 - f) Choose *Add palette parameter* or the + next to the value help.
3. Change the SAP text color in your theme to **CornPoppyRed**.

- a) Choose *Expert* on the outer-right side.
 - b) Select the filters *Show colors* and *Show typography*.
 - c) For the *sapTextColor* field, open the value help.
 - d) In the *Palette* pane, choose *CornPoppyRed*.
 - e) Note the calculation of many other font colors.
4. Set the *FioriMeadow.jpg* image from the course folder on the training share as *Shell Background Image/Gradient* for your theme with an opacity of **0.7**.



Note:

Course folders on the training share can be found at `S:\Courses`.

- a) Choose *Quick* on the outer-right side.
 - b) For the *Shell Background Image/Gradient* field, open the value help.
 - c) Choose **+**.
 - d) Select `S:\Courses\<course>\FioriMeadow.jpg`.
 - e) Choose *Open*.
 - f) Choose *OK*.
 - g) For the *Shell Background Opacity* field, enter **0.7** and press Enter.
5. Save and build your theme as **Z_CORNPOPPY_##** with the description **Corn Poppy Meadow ##**. Run a preview of your theme in the *UI Theme Designer*.
- a) In the menu, choose *Theme* → *Save As...*
 - b) In the *Theme ID* field, enter **Z_CORNPOPPY_##**.
 - c) In the *Title* field, enter **Corn Poppy Meadow ##**.
 - d) Choose *Save*.
 - e) In the menu, choose *Theme* → *Save & Build*.
 - f) Choose *Run Preview* or the triangle above the preview.

Unit 5

Exercise 26

Create an SAP Screen Personas Theme and Flavor

Business Scenario

Create and test a theme and flavor of SAP Screen Personas using the flavor manager.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Start the SAP Screen Personas flavor manager of your Back-End Server (BES) in Google Chrome and examine the URL.
2. Create the theme **Data Center ##** with the description **Blue Data Center ##** on your BES.
3. Add the `FioriDataCenter.jpg` background image from the course folder to fill the user area at **center position** and change the hover background color of buttons to **yellow**.



Note:
Course folders on the training share can be found at `S:\Courses`.

4. Create the flavor **Fiori Center ##** with the description **Fiori Data Center ##** on your BES.
5. Hide the SAP Easy Access picture and menu and add a transaction button starting the SAP Screen Personas Administration (`/PERSONAS/ADMIN`) of your Back-End Server (BES).

Create an SAP Screen Personas Theme and Flavor

Business Scenario

Create and test a theme and flavor of SAP Screen Personas using the flavor manager.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Start the SAP Screen Personas flavor manager of your Back-End Server (BES) in Google Chrome and examine the URL.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose the *SAP Screen Personas* of your BES.
 - c) Examine the URL.
2. Create the theme **Data Center ##** with the description **Blue Data Center ##** on your BES.
 - a) Choose the *SAP Screen Personas Selector* at the top.



Hint:
The *P* appears when you hover the mouse.

- b) Choose *Themes*.
 - c) Choose *Create New Theme*.
 - d) In the *Name* field, enter **Data Center ##**.
 - e) In the *Description* field, enter **Blue Data Center ##**.
 - f) Choose *Done*.
3. Add the `FioriDataCenter.jpg` background image from the course folder to fill the user area at **center position** and change the hover background color of buttons to **yellow**.



Note:

Course folders on the training share can be found at `S:\Courses`.

- a) In the section menu at the top of the dialog box, choose *User Area*.
 - b) For *Background Image*, open the value help.
 - c) Choose *Upload Image*.
 - d) Choose *Browse File*.
 - e) Select `S:\Courses\<course>\SAPScreenPersonas\FioriDataCenter.jpg`.
 - f) Choose *Open*.
 - g) Choose *Upload Image*.
 - h) Choose *Done*.
 - i) In the *Background Stretch* field, enter **fill** using the value help.
 - j) In the *Background Position* field, enter **center center** using the value help.
 - k) In the section menu at the top of the dialog box, choose *Toolbar Button*.
 - l) In the *Hover Background Color* field, enter **rgba (248,225,2,1)** for the color **yellow** using the value help.
 - m) Choose *Save*.
 - n) Choose *Close*.
 - o) Choose *Close Theme Gallery* or the X at the upper corner of the dialog box.
4. Create the flavor **Fiori Center ##** with the description **Fiori Data Center ##** on your BES.
- a) If Screen Personas is closed, choose *SAP Screen Personas Selector* at the top.



Hint:

The P appears when you hover the mouse.

- b) Choose *Create New Flavor*.
 - c) In the *Name* field, enter **Fiori Center ##**.
 - d) In the *Description* field, enter **Fiori Data Center ##**.
 - e) Choose *Create*.
5. Hide the SAP Easy Access picture and menu and add a transaction button starting the SAP Screen Personas Administration (`/PERSONAS/ADMIN`) of your Back-End Server (BES).
- a) Choose the *SAP Easy Access* picture and then choose *Hide*.
 - b) Choose the *Insert* tab.

- c) Choose *Transaction Button*.
- d) In the *Label* field, enter **SAP Screen Personas Administration**.
- e) In the *Code* field, enter **/PERSONAS/ADMIN**.
- f) Choose *Done*.
- g) Drag and drop the *SAP Screen Personas Administration* button to a position of your choice.
- h) Choose *Save*.
- i) Choose *Exit*.
- j) Choose *SAP Screen Personas Administration*.

Adapt SAP Fiori at Runtime

Business Scenario

Adapt an SAP Fiori app in the *SAP Fiori launchpad* at runtime and save the changes as app variant.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Add the role **SAP_UI_FLEX_KEY_USER** to your user in the User Maintenance (SU01) of your Front-End Server (FES).
2. Open the object page for the sample bank *Deutsche Bank 24* using the SAP Fiori search of your FES.
3. By using Runtime Adaptation (RTA), change the *Basic Data* heading to **Core Data**, add the *Bank Country* and *City* fields, and remove the *Bank Branch* field in the object page for banks.
4. Save your changes as app variant **Core Data ##** as *Local Object* and copy the app ID in the clipboard.
5. In the *SAP Fiori launchpad designer* of your FES, create a reference for the target mapping with semantic object *Bank* and action *displayFactSheet* of the *SAP: Financials - Cash Management Apps* (SAP_TC_FIN_CM_COMMON) catalog in your catalog **Employee ##**.
6. Paste the app ID of your app variant from the clipboard in the *ID* field of the target mapping with semantic object *Bank* and action *displayFactSheet* of your catalog **Employee ##**. Change the semantic action to **displayFactSheet##**.
7. Reload your *SAP Fiori launchpad* of your FES and search for banks. Choose *Show Related Objects For Banks* in the search result and check your app variant.

Adapt SAP Fiori at Runtime

Business Scenario

Adapt an SAP Fiori app in the *SAP Fiori launchpad* at runtime and save the changes as app variant.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Add the role **SAP_UI_FLEX_KEY_USER** to your user in the User Maintenance (SU01) of your Front-End Server (FES).
 - a) In the *SAP Easy Access* menu of your FES, search for *User Maintenance* or start transaction SU01.
 - b) In the *User* field, enter your user.
 - c) Choose *Change*.
 - d) Choose the *Roles* tab.
 - e) In the *Role* column, open the value help.
 - f) In the *Single Role* field, enter ***ui_flex*** and press **Enter**.
 - g) Select the *Single Role* **SAP_UI_FLEX_KEY_USER** and choose *Copy*.
 - h) Choose *Save*.
2. Open the object page for the sample bank *Deutsche Bank 24* using the SAP Fiori search of your FES.
 - a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose *Search* in the upper right.
 - c) In the *Search* menu, choose *Banks*.
 - d) In the *Search* field, enter **24** and press **Enter**.
 - e) Choose *Deutsche Bank 24*.

3. By using Runtime Adaptation (RTA), change the *Basic Data* heading to **Core Data**, add the *Bank Country* and *City* fields, and remove the *Bank Branch* field in the object page for banks.
 - a) Choose your user in the upper-left corner.
 - b) In the *Me Area*, choose *Adapt UI*.
 - c) Right-click on *Basic Data* and choose *Rename*.
 - d) Change the heading to **Core Data** and press Enter.
 - e) Right-click on *Core Data* and choose *Add Field*.
 - f) In the *Available Fields* dialog box, select *Bank Country* and *City* and choose OK.
 - g) Right-click on *Bank Branch* and choose *Remove*.
4. Save your changes as app variant **Core Data ##** as *Local Object* and copy the app ID in the clipboard.
 - a) Choose *Save As*.
 - b) In the *Title* field, enter **Core Bank Data ##**.
 - c) Add an icon of your choice.
 - d) Choose *Save*.
 - e) In the *Select a Transport* dialog box, choose *Local Object*.
 - f) In the *Information* dialog box, choose *Copy ID and Close*.



Hint:
You may want to paste the app ID in a text file.

5. In the *SAP Fiori launchpad designer* of your FES, create a reference for the target mapping with semantic object *Bank* and action *displayFactSheet* of the *SAP: Financials - Cash Management Apps (SAP_TC_FIN_CM_COMMON)* catalog in your catalog **Employee ##**.
 - a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
 - b) In the *Search for catalogs* field, enter **fin_cm** and press Enter.
 - c) Choose *SAP: Financials - Cash Management Apps (SAP_TC_FIN_CM_COMMON)* from the list of catalogs.
 - d) Choose *Target Mappings* at the top of the page.
 - e) In the *Search* field on the top right, enter **factsheet** and press Enter.
 - f) Select the *Semantic Object* **Bank** with Action **displayFactSheet**.
 - g) Choose *Create Reference*.
 - h) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - i) Choose your *Employee ##* catalog.

6. Paste the app ID of your app variant from the clipboard in the *ID* field of the target mapping with semantic object *Bank* and action *displayFactSheet* of your catalog **Employee ##**. Change the semantic action to **displayFactSheet##**.
 - a) In the *Search for catalogs* field, enter **z_##** and press Enter.
 - b) Choose your *Employee ##* catalog.
 - c) Select the *Semantic Object Bank* with Action **displayFactSheet**.
 - d) Choose *Configure*.
 - e) In the *ID* field, paste the app ID from the clipboard.
 - f) In the *Action* field, enter **displayFactsheet##**.
 - g) Choose *Save*.
 - h) In the dialog box to confirm the break of the reference, choose *OK*.
7. Reload your *SAP Fiori launchpad* of your FES and search for banks. Choose *Show Related Objects For Banks* in the search result and check your app variant.
 - a) Reload the *SAP Fiori launchpad* of your FES in the client of your choice.
 - b) Choose *Search* in the upper right.
 - c) In the *Search* menu, choose *Banks*.
 - d) In the *Search* field, enter **24** and press Enter.
 - e) Choose *Show Related Objects For Banks*.
 - f) Check if your changes are visible.

Activate a Plugin for the SAP Fiori Launchpad

Business Scenario

Extend the *SAP Fiori launchpad* by adding a plugin to the configuration.



Note:
Login information will be provided by your trainer.

1. In the *Definition of FLP Settings* (/UI2/FLP_CONF_DEF) of your FES, check the technical information of the *UX100_FLP_PLUG* FLP plugin and note down the *UI5 Component ID* and *URL*.
UI5 Component ID: _____
URL: _____
2. Create the catalog **Z_##_BC_FLP_PLUGIN** with the title **Fiori Launchpad Plugin ##**.
3. Create a target mapping in your catalog *Z_##_BC_FLP_PLUGIN* with semantic object **Shell** and action **plugin** targeting the FLP plugin with the *UI5 Component ID* and *URL* you noted down.
4. Add the *Z_##_BC_FLP_PLUGIN* catalog to the menu of the *Z_##_BR_TRAINING* role in the Role Maintenance (PF03) of your FES.
5. Search for changes in the *SAP Fiori launchpad* of your FES.

Activate a Plugin for the SAP Fiori Launchpad

Business Scenario

Extend the *SAP Fiori launchpad* by adding a plugin to the configuration.



Note:
Login information will be provided by your trainer.

1. In the *Definition of FLP Settings* (/UI2/FLP_CONF_DEF) of your FES, check the technical information of the *UX100_FLP_PLUG* FLP plugin and note down the *UI5 Component ID* and *URL*.

UI5 Component ID: _____

URL: _____

- a) In the *SAP Easy Access* menu of your FES, search for *Definition of FLP Settings* or start transaction /UI2/FLP_CONF_DEF.
 - b) Double-click *Define FLP Plugins* on the left.
 - c) Double-click *UX100_FLP_PLUG* in the *FLP Plugin ID* column.
 - d) Note down the *UI5 Component ID* **sap.ux100.flp.plugin** and *URL* **/sap/bc/ui5_ui5/sap/ux100_flp_plug**.
2. Create the catalog **Z_##_BC_FLP_PLUGIN** with the title **Fiori Launchpad Plugin ##**.
 - a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
 - b) Choose + beneath the list of catalogs.
 - c) In the *Title* field, enter **Fiori Launchpad Plugin ##**.
 - d) In the *ID* field, enter **Z_##_BC_FLP_PLUGIN**.
 - e) Choose *Save*.
 3. Create a target mapping in your catalog **Z_##_BC_FLP_PLUGIN** with semantic object **Shell** and action **plugin** targeting the FLP plugin with the *UI5 Component ID* and *URL* you noted down.
 - a) In your catalog **Z_##_BC_FLP_PLUGIN**, choose *Target Mappings*.
 - b) Choose *Create Target Mapping*.
 - c) In the *intent pane*, enter the following values:

Field	Value
<i>Semantic Object</i>	Shell

Field	Value
Action	plugin

d) In the *Application Type* menu, choose *SAPUI5 Fiori App*.

e) In the *Target pane*, enter the following values:

Field	Value
Title	FLP Plugin
URL	/sap/bc/ui5_ui5/sap/ux100_flp_plug
ID	sap.ux100.flp.plugin

f) Choose *Save*.

4. Add the *Z_##_BC_FLP_PLUGIN* catalog to the menu of the *Z_##_BR_TRAINING* role in the Role Maintenance (*PFECG*) of your FES.

a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction *PFECG*.

b) In the *Role* field, enter **Z_##_BR_TRAINING**.

c) Choose *Change*.

d) Choose the *Menu* tab.

e) Choose the small triangle in the *Insert Node* button.

f) Choose *SAP Fiori Tile Catalog*.

g) In the *Catalog ID* field, enter **z_##*** and use the value help.

h) In the dialog box, double-click *Z_##_BC_FLP_PLUGIN*.

i) Choose *Continue*.

j) Choose *Save*.

5. Search for changes in the *SAP Fiori launchpad* of your FES.

a) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.

b) Choose *Important Information* in the footer.

c) Choose *Add bookmark* in the header on the left.

d) Choose your user in the upper left corner.

e) Choose *Help for FLP page*.

f) Choose any tile starting an SAPUI5 application.

g) Choose your user in the upper left corner.

h) Choose *Help for App page*.

Test the SAP Fiori Client

Business Example

Install and test the SAP Fiori Client app on your mobile device connecting to the SAP Fiori Cloud Demo.



Note:

This exercise requires a mobile device by Apple, Google, or Microsoft and the authorization to install apps from the respective app store.



Note:

This exercise requires an account in the SAP Gateway Demo Server ES5, which can be created free of charge at <https://register.sapdevcenter.com/SUPSignForms>.

1. Search for the SAP Fiori Client app in the app store of your mobile device.
2. Install the SAP Fiori Client app from the app store of your mobile device.
3. Start the SAP Fiori Client on your mobile device connecting to the SAP Fiori launchpad of the SAP Gateway Demo Server ES5 (<https://sapes5.sapdevcenter.com/sap/bc/ui2/flp>).

Test the SAP Fiori Client

Business Example

Install and test the SAP Fiori Client app on your mobile device connecting to the SAP Fiori Cloud Demo.



Note:

This exercise requires a mobile device by Apple, Google, or Microsoft and the authorization to install apps from the respective app store.



Note:

This exercise requires an account in the SAP Gateway Demo Server ES5, which can be created free of charge at <https://register.sapdevcenter.com/SUPSignForms>.

1. Search for the SAP Fiori Client app in the app store of your mobile device.
 - a) On your mobile device, open the respective app store.
 - b) Search for the *SAP Fiori Client* app.
 - c) Examine the description of the app.
 - d) Confirm that the app is free of charge.
2. Install the SAP Fiori Client app from the app store of your mobile device.
 - a) In your app store, choose *install* or an equal function.
 - b) Enter your app store credentials if needed.
3. Start the SAP Fiori Client on your mobile device connecting to the SAP Fiori launchpad of the SAP Gateway Demo Server ES5 (<https://sapes5.sapdevcenter.com/sap/bc/ui2/flp>).
 - a) On your mobile device, start the *SAP Fiori Client* app .
 - b) Choose *Logon*.
 - c) In the *SAP Fiori URL* field, enter <https://sapes5.sapdevcenter.com/sap/bc/ui2/flp>.
 - d) Choose *OK*.
 - e) Decide to enter an app code or choose *Deactivate App Code*.
 - f) Choose *Continue*.
 - g) In the *User* field, enter your SAP-user.

- h) In the *Password* field, enter your password.
- i) Choose *Log On*.
- j) Examine the *SAP Fiori launchpad*.

Test the SAP Fiori Mentor

Business Example

Install and test the SAP Fiori Mentor app on your device.



Note:

This exercise requires an Apple iPad or Google Android device and the authorization to install apps from the respective app store.

1. Search for and download the SAP Fiori Mentor app in the app store of your mobile device.
2. Start the SAP Fiori Mentor on your mobile device and examine the *Apple + SAP Partnership*.



Note:

Your mobile device requires access to the internet.

3. In the *SAP Fiori Mentor* app, examine the settings of the *Timeline Cell* in the *Shift Schedule* best practice.
4. In the *SAP Fiori Mentor* app, examine the source code of the *Shift Schedule* in *UI Components*.

Test the SAP Fiori Mentor

Business Example

Install and test the SAP Fiori Mentor app on your device.



Note:

This exercise requires an Apple iPad or Google Android device and the authorization to install apps from the respective app store.

1. Search for and download the SAP Fiori Mentor app in the app store of your mobile device.
 - a) On your mobile device, open the respective app store.
 - b) Search for the *SAP Fiori Mentor* app.
 - c) Examine the description of the app.
 - d) Confirm that the app is free of charge.
 - e) Choose *Download*.
 - f) Enter your app store credentials if needed.
2. Start the SAP Fiori Mentor on your mobile device and examine the *Apple + SAP Partnership*.



Note:

Your mobile device requires access to the internet.

- a) On your mobile device, start the *SAP Fiori Mentor* app.
 - b) Choose *About Apple + SAP Partnership* under *Resources*.
 - c) Examine the website.
 - d) Choose *Finish* in the upper-left corner.
3. In the *SAP Fiori Mentor* app, examine the settings of the *Timeline Cell* in the *Shift Schedule* best practice.
 - a) Choose *Shift Schedule* under *Best Practices*.
 - b) Choose *Timeline Cell*.
 - c) For the *Event* setting, choose **None**.



Note:
Mention that this setting does not comply with Fiori for iOS Guidelines.

- d) Change some other settings and examine the effect in the preview above.
- 4. In the *SAP Fiori Mentor* app, examine the source code of the *Shift Schedule* in *UI Components*.
 - a) Choose *UI Components* in the lower middle.
 - b) In the search field, enter **timeline**.
 - c) Choose *Timeline Cell*.
 - d) Choose *Export*
 - e) Choose the share button in the upper-right corner.
 - f) Examine the sharing options.

Test SAP Workflow Integration of SAP Fiori

Business Scenario

Use information from the SAP Fiori apps reference library to test the SAP Gateway Workflow service and to use the My Inbox app in the *SAP Fiori launchpad*.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for the SAP S/4HANA app of the manager role in the SAP Fiori apps reference library and note down the name of the business catalog, the OData service, and its version.
OData service: _____
OData service version: _____
Business catalog: _____
2. Test the availability of the Gateway service you noted down in the SAP Gateway Client on your FES.
3. Add the business catalog you noted down to the menu of the Z_##_BR_TRAINING role in the *Role Maintenance* (PFCG) of your FES and reload the *SAP Fiori launchpad* afterwards.
4. Enter absence data of your choice in the DEMO: Create Notification of Absence (SWXF) of your Back-End Server (BES).
5. Check the *Notification Area* of the SAP Fiori launchpad of your FES for an *Approve notification of absence* notification for your user and open it in the *My Inbox* app.



Note:
Notifications based on SAP Workflow are collected and sent at regular intervals to the FES. It may take up to five minutes for the notification to appear.

Test SAP Workflow Integration of SAP Fiori

Business Scenario

Use information from the SAP Fiori apps reference library to test the SAP Gateway Workflow service and to use the My Inbox app in the *SAP Fiori launchpad*.



Note:
Login information will be provided by your trainer.



Note:
Whenever the values or object names include ##, replace ## with the number your trainer has assigned to you.

1. Search for the SAP S/4HANA app of the manager role in the SAP Fiori apps reference library and note down the name of the business catalog, the OData service, and its version.
OData service: _____
OData service version: _____
Business catalog: _____
 - a) In the *SAP Fiori apps reference library*, choose *Fiori apps for SAP S/4HANA*.
 - b) Choose *by Roles*.
 - c) In the *Search by Role* field, enter **manager** and press Enter.
 - d) Choose *Manager*.
 - e) Choose *My Inbox*.
 - f) Choose the *Implementation Information* tab.
 - g) Expand the *Configuration* node.
 - h) Note down the *OData Service* /**IWPGW/TASKPROCESSING** version **002**.
 - i) Note down the *Business Catalog* **SAP_CA_BC_MYINBOX**.
2. Test the availability of the Gateway service you noted down in the SAP Gateway Client on your FES.
 - a) In the *SAP Easy Access* menu of your Front-End Server (FES), search for *Activate and Maintain Services* or start transaction /**IWFND/MAINT_SERVICE**.

- b) Choose *Filter*.
 - c) In the *Technical Service Name* field, enter ***task*** and choose *Continue*.
 - d) Select the *Technical Service Name* **ZTASKPROCESSING** with *Version 2*.
 - e) In the *ICF Nodes* panel, choose *SAP Gateway Client*.
 - f) Choose *Execute*.
 - g) Examine the list of entity sets in the *HTTP Response* screen.
3. Add the business catalog you noted down to the menu of the **Z_##_BR_TRAINING** role in the *Role Maintenance* (PFCG) of your FES and reload the *SAP Fiori launchpad* afterwards.
- a) In the *SAP Easy Access* menu of your FES, search for *Role Maintenance* or start transaction PFCG.
 - b) In the *Role* field, enter **Z_##_BR_TRAINING**.
 - c) Choose *Change*.
 - d) Choose the *Menu* tab.
 - e) Choose the small triangle in the *Insert Node* button.



Hint:

The initial value written on the *Insert Node* button is *Transaction*.

- f) Choose *SAP Fiori Tile Catalog*.
 - g) In the *Catalog ID* field, enter ***inbox** and use the value help.
 - h) In the dialog box, double click **SAP_CA_BC_MYINBOX**.
 - i) Choose *Continue*.
 - j) Choose *Save*.
 - k) Start or reload the *SAP Fiori launchpad* of your FES in the client of your choice.
4. Enter absence data of your choice in the *DEMO: Create Notification of Absence* (SWXF) of your Back-End Server (BES).
- a) In the *SAP Easy Access* menu of your BES, search for *DEMO: Create Notification of Absence* or start transaction SWXF.
 - b) In the *Absence Data* pane, enter the data of your choice.
 - c) Choose *Save*.
5. Check the *Notification Area* of the *SAP Fiori launchpad* of your FES for an *Approve notification of absence* notification for your user and open it in the *My Inbox* app.

**Note:**

Notifications based on SAP Workflow are collected and sent at regular intervals to the FES. It may take up to five minutes for the notification to appear.

- a) In the *SAP Fiori launchpad*, choose *Notifications* in the upper-right corner.
- b) Choose the *Employee User TRAIN##: Approve notification of absence* notification or wait for it to appear.

**Hint:**

You may continue working in the *SAP Fiori launchpad*.

- c) In the *My Inbox* app, search for the data you entered in `SWXF`.

Unit 7

Exercise 32

Operate SAP Fiori Standalone

Business Scenario

Use information from the SAP Fiori apps reference library and a Fiori catalog to call a Fiori app standalone using different configurations.



Note:
Login information will be provided by your trainer.

1. In the SAP Fiori apps reference library, search for the *My Spend* app and note down the name of the technical catalog.
Technical catalog: _____
2. Search for the *My Spend* app in the technical catalog you noted down in the SAP Fiori launchpad designer of your Front-End Server (FES) and note down the URL and the path to the `Component`.
Component URL: _____
Component path: _____
3. Use the URL and the path of the `Component` you noted down to call the *My Spend* app standalone on your FES. Note down the standalone URL.
Standalone URL: _____



Hint:
Use the SAP Fiori launchpad URL as a starting point.

4. Call the *My Spend* app standalone on your FES with **embedded** configuration and **headerless** configuration.

Operate SAP Fiori Standalone

Business Scenario

Use information from the SAP Fiori apps reference library and a Fiori catalog to call a Fiori app standalone using different configurations.



Note:
Login information will be provided by your trainer.

1. In the SAP Fiori apps reference library, search for the *My Spend* app and note down the name of the technical catalog.

Technical catalog: _____

- a) In the *SAP Fiori apps reference library*, choose *All Apps*.
 - b) In the *Search by App name* field, enter **spend**.
 - c) Choose *My Spend (Version 2)*.
 - d) In the *Product Suite* menu, choose *SAP S/4HANA*.
 - e) Choose the *Implementation Information* tab.
 - f) In the *Back-End Version* menu, choose the release of you BES.
 - g) Expand the *Configuration* node.
 - h) Note down the *Technical Catalog* **SAP_TC_FIN_CO_COMMON**.
2. Search for the *My Spend* app in the technical catalog you noted down in the SAP Fiori launchpad designer of your Front-End Server (FES) and note down the URL and the path to the Component.

Component URL: _____

Component path: _____

- a) In the *SAP Fiori launchpad designer* of your FES, choose *Catalogs*.
- b) In the *Search for catalogs* field, enter **fin_co**.
- c) Choose **SAP_TC_FIN_CO_COMMON** in the list of catalogs.
- d) Choose *Target Mappings* at the top of the page.
- e) In the *Search* field, enter **spend** and press Enter.
- f) Select the *Semantic Object* **CostObjectVariance** with Action **displayDetailVariance**.

- g) Choose *Configure*.
 - h) Note down the URL `/sap/bc/ui5_ui5/sap/fin_myspend`.
 - i) Note down the path `fin.co.myspend` of the *Component*.
3. Use the URL and the path of the *Component* you noted down to call the *My Spend* app standalone on your FES. Note down the standalone URL.
- Standalone URL: _____



Hint:
Use the SAP Fiori launchpad URL as a starting point.

- a) Start or reload the *SAP Fiori launchpad* of your FES in a web browser of your choice.
- b) Replace `#Shell-home` in the URL with `#Shell-runStandaloneApp`.
- c) Add `?sap-ushell-SAPUI5.Component=fin.co.myspend` to the URL.
- d) Add `&sap-ushell-url=/sap/bc/ui5_ui5/sap/fin_myspend` to the URL.
- e) Press Enter.



Note:
Complete standalone URL: https://<host>:<port>/sap/bc/ui2/flp#Shell-runStandaloneApp?sap-ushell-SAPUI5.Component=fin.co.myspend&sap-ushell-url=/sap/bc/ui5_ui5/sap/fin_myspend

- f) Operate the app as you wish.
4. Call the *My Spend* app standalone on your FES with **embedded** configuration and **headerless** configuration.
- a) Add `?sap-ushell-config=embedded` in front of the `#` in the standalone URL.
 - b) Press Enter.
 - c) Choose your user in the upper left corner.
 - d) Mention that an app-specific dialog box appears instead of the *Me Area*.
 - e) Replace `embedded` with **headerless** in the standalone URL.
 - f) Press Enter.
 - g) Mention the missing header.

Unit 7

Exercise 33

Operate SAP Cloud Platform Portal

Business Example

Create a website for SAP Fiori launchpad in the SAP Cloud Platform Portal and add a tile to start the SAP Web IDE.



Note:

This exercise requires a trial account on the SAP Cloud Platform, which can be created free of charge at <https://hanatrial.ondemand.com>.



Caution:

Due to the rapidly-changing nature of cloud software, the naming of fields and buttons as well as steps may differ from the exercise solution.

1. Log on to the SAP Cloud Platform (CP) using your trial account.
2. Open the Portal service in the SAP CP Cockpit of your personal trial account.



Hint:

You can enable the Portal service by choosing *Enable*.

3. Create the website **SAP Fiori** using the SAP Fiori launchpad template in the admin space of your SAP CP Portal.
4. Create the group **Development** for everyone in the *SAP Fiori* site.
5. Create the catalog **Development Tools** for everyone in the *SAP Fiori* site.
6. Create the tile **SAP Web IDE** for the SAP Web IDE of your SAP CP account in the *SAP Fiori* site supporting only desktops and add it to the **Development Tools** catalog and to the **Development** group.
7. Preview the *SAP Fiori* site and test the *SAP Web IDE* tile.

Operate SAP Cloud Platform Portal

Business Example

Create a website for SAP Fiori launchpad in the SAP Cloud Platform Portal and add a tile to start the SAP Web IDE.



Note:

This exercise requires a trial account on the SAP Cloud Platform, which can be created free of charge at <https://hanatrial.ondemand.com>.



Caution:

Due to the rapidly-changing nature of cloud software, the naming of fields and buttons as well as steps may differ from the exercise solution.

1. Log on to the SAP Cloud Platform (CP) using your trial account.
 - a) In the Windows start menu, choose Google Chrome.
 - b) In the Google Chrome favorites, choose *SAP Cloud Platform Trial* in the *SAP Cloud Platform* folder or enter <https://hanatrial.ondemand.com>.
 - c) Log on using your SAP CP account.
 - d) Close any dialog box that appears.
2. Open the Portal service in the SAP CP Cockpit of your personal trial account.



Hint:

You can enable the Portal service by choosing *Enable*.

- a) In the *Neo Environment* pane, choose *Europe (Rot) — Trial*.
- b) Choose your *Personal Trial Account* name.
- c) In the *Search* field in the upper right, enter **portal**.
- d) Choose *Services* on the left.
- e) In the *User Experience* pane, choose *Portal*.
- f) If the *Portal* service is not enabled, choose *Enable* and wait until it is enabled.
- g) Choose *Got to Service*.
- h) Close any dialog box that appears.

3. Create the website **SAP Fiori** using the SAP Fiori launchpad template in the admin space of your SAP CP Portal.
 - a) Choose *Create new Site*.
 - b) In the *Site Name* field, enter **SAP Fiori**.
 - c) Choose *SAP Fiori Launchpad* as the template.
 - d) Choose *Create*.
4. Create the group **Development** for everyone in the *SAP Fiori* site.
 - a) Choose *Groups* on the left.
 - b) Choose *New* or the + beneath the list of groups.
 - c) In the *Group Name* field, enter **Development**.
 - d) Choose the *Roles* tab.
 - e) Choose *Assign more roles* or the + on the right.
 - f) In the *Select Roles* dialog box, select *Everyone* and then choose *OK*.
 - g) Choose *Save*.
5. Create the catalog **Development Tools** for everyone in the *SAP Fiori* site.
 - a) Choose *Catalogs* on the left.
 - b) Choose *New* or the + beneath the list of catalogs.
 - c) In the *Catalog Name* field, enter **Development Tools**.
 - d) Choose the *Roles* tab.
 - e) Choose *Assign more roles* or the + on the right.
 - f) In the *Select Roles* dialog box, select *Everyone* and then choose *OK*.
 - g) Choose *Save*.
6. Create the tile **SAP Web IDE** for the SAP Web IDE of your SAP CP account in the *SAP Fiori* site supporting only desktops and add it to the **Development Tools** catalog and to the **Development** group.
 - a) Choose *Apps* on the left.
 - b) Choose *New* or the + beneath the list of apps.
 - c) In the *App Title* field, enter **SAP Web IDE**.
 - d) In the *App Type* menu, choose *URL*.
 - e) In the *URL* field, enter **https://webidecp-
<account>.dispatcher.hanatrial.ondemand.com** replacing **<account>** with your SAP CP account.
 - f) Choose the *Catalogs* tab.
 - g) Choose *Assign more catalogs*.
 - h) In the *Select Catalogs* dialog box, select *Development Tools* and choose *OK*.

- i) Choose the *Groups* tab.
 - j) Choose *Assign more groups*.
 - k) In the *Select Groups* dialog box, select *Development* and choose *OK*.
 - l) Choose the *Visualization* tab.
 - m) In the *Subtitle* field, enter **C**loud.
 - n) In the *Supported Devices* pane, deselect *Tablet* and *Smartphone*.
 - o) Choose *Save*.
7. Preview the *SAP Fiori* site and test the *SAP Web IDE* tile.
- a) Choose *Site preview* in the upper-right corner.
 - b) Choose the *SAP Web IDE* tile.
 - c) Operate the app as you wish.