

Developing an SAP Fiori Elements App Based on a CAP OData V4 Service

Duration: 9 Hours

Total Modules: 14

Course Description

This course takes SAP Fiori elements development to the next level by guiding participants through building an SAP Fiori elements application based on a CAP OData V4 service using SAP Business Application Studio and SAP Fiori tools. Participants gain hands-on experience creating a data model and OData service with the SAP Cloud Application Programming Model (CAP), then configure advanced list report and object page features such as the flexible column layout, filter bar, generic and application-specific actions, micro charts, and multiple table views.

The course also covers shaping the object page header and body, applying dynamic field control, validating user input, and understanding the flexible programming model for extending SAP Fiori elements applications with custom code. It concludes with internal and external navigation concepts and an introduction to the analytical list page.

Audience Profile

- SAP Fiori / SAPUI5 Developers
- SAP Full-Stack (CAP) Developers
- Solution Architects working with SAP BTP
- Technical Consultants extending SAP Fiori elements applications

Prerequisites

- Completion of the learning journey: Building Side-by-Side Extensions on SAP BTP
- Basic understanding of SAP Fiori elements and SAPUI5 fundamentals
- Basic understanding of OData services and annotations
- Familiarity with SAP Business Application Studio is helpful

Course Objectives

After completing this program, participants will be able to:

- Describe the key advantages of using SAP Fiori elements for OData V4
- Use SAP Business Application Studio and SAP Fiori tools to build a data model and OData service with CAP
- Distinguish between the available SAP Fiori elements templates and floorplans
- Configure general features of the list report and object page, including the flexible column layout
- Configure the list report filter bar, generic and application-specific actions, and table column content
- Add micro charts to tables and to the object page header
- Configure multiple table views on the list report

- Shape the header area and body of the object page, including sections, facets, and input fields
- Apply dynamic field control and validate user input on the object page
- Explain the flexibility of the programming model for SAP Fiori elements, including side effects
- Illustrate internal and external navigation concepts
- Discover and configure the analytical list page

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Module 1: Getting an Overview of SAP Fiori Elements for OData V4

Topics

- Using SAP Fiori Elements: Get to Know the Benefits
- Getting Started with SAP Fiori Elements: Understanding OData and Annotations
- Outlining the Benefits of SAP Fiori Elements for OData V4
- Using the SAP Cloud Application Programming Model (CAP)
- Setting Up SAP Business Application Studio for Development

Module 2: Getting an Overview of SAP Fiori Tools

Topics

- Using SAP Fiori Tools to Boost Your App Development
- Exploring SAP Fiori Tools Extensions and Guided Development

Module 3: Understanding SAP Fiori Elements Templates

Topics

- Getting an Overview of the Available SAP Fiori Elements Templates
- Distinguishing Between List Report, Object Page, and Analytical List Page Floorplans

Module 4: Configuring the General Features of List Reports and Object Pages

Topics

- Configuring the Flexible Column Layout
- Configuring General Settings for List Reports and Object Pages

Module 5: Configuring the List Report Filter Bar

Topics

- Adding Fields to the Filter Bar
- Configuring Filter Bar Behavior and Value Helps

Module 6: Examining Actions Available on the List Report

Topics

- Applying Generic Actions Provided by SAP Fiori Elements
- Implementing Application-Specific Actions

Module 7: Configuring the Content of Table Columns

Topics

- Creating a Visual Representation of a Progress Indicator
- Configuring Table Column Content

- Adding Micro Charts to a Table

Module 8: Using Multiple Views in the List Report

Topics

- Configuring Multiple Views Using Single Table Mode
- Configuring Multiple Views Using Multiple Table Mode

Module 9: Shaping the Header Area of the Object Page

Topics

- Placing Key Figures in the Header Area
- Adding Micro Charts to the Object Page Header
- Configuring Header Facets and Actions

Module 10: Configuring the Body of the Object Page

Topics

- Adapting Input Fields
- Configuring Object Page Sections and Facets
- Adding Tables and Charts to the Object Page Body

Module 11: Applying Dynamic Field Control and Validating User Input on the Object Page

Topics

- Dynamically Affecting the Visibility and Editability of UI Elements
- Validating User Input on the Object Page

Module 12: Discovering the Flexibility of the Programming Model for SAP Fiori Elements for OData V4

Topics

- Getting an Overview of the Flexible Programming Model
- Implementing Side Effects
- Extending SAP Fiori Elements Applications with Custom Code

Module 13: Illustrating the Navigation Concept in SAP Fiori Elements for OData V4

Topics

- Examining Internal Navigation
- Examining External Navigation

Module 14: Discovering the Analytical List Page

Topics

- Examining the Analytical List Page
- Configuring the Analytical List Page