

Getting Started with Creating an SAP Fiori Elements App Based on an OData V4 RAP Service

Duration: 5 Hours

Total Modules: 11

Course Description

This learning journey introduces SAP Fiori elements and SAP Fiori tools, guiding developers, architects, and consultants through the process of building and enhancing an application based on SAP Fiori elements, using the ABAP RESTful Application Programming Model (RAP). Participants begin by working in the RAP back end using ABAP Development Tools (ADT), adding ABAP CDS annotations, and publishing an OData V4 service.

Participants then move into SAP Business Application Studio to create an SAP Fiori elements app using the list report page template, configuring general settings, tables, navigation, and object pages with SAP Fiori tools. The course concludes with an introduction to the flexible programming model for extending apps with custom code, and deploying the finished application to SAP BTP.

Audience Profile

- SAP Fiori / SAPUI5 Developers
- ABAP Developers working with the RAP programming model
- Solution Architects working with SAP BTP, ABAP Environment
- Technical Professionals new to SAP Fiori elements development

Prerequisites

- Basic knowledge of the ABAP RESTful Application Programming Model (RAP)
- Familiarity with ABAP Development Tools (ADT) is helpful
- No prior SAP Fiori elements development experience is required

Course Objectives

After completing this program, participants will be able to:

- Explain the benefits of using SAP Fiori elements
- Identify the advantages of OData V4 and SAP Fiori elements for OData V4
- Configure UI features using the corresponding ABAP CDS annotations in the back end
- Use SAP Fiori tools to create and develop SAP Fiori elements applications in a simple and efficient way
- Distinguish between the available SAP Fiori elements templates
- Explain the concept of internal and external navigation in SAP Fiori elements applications
- Use the flexible programming model to add custom code
- Manually deploy an SAP Fiori elements app to an account on SAP BTP

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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
- Outlining the Benefits of SAP Fiori Elements for OData V4
- Getting Started with SAP Fiori Elements: Understanding OData and Annotations
- Getting an Overview of Programming Models for Creating OData Services

Module 2: Getting an Overview of the ABAP RESTful Application Programming Model (RAP)

Topics

- Introducing the ABAP RESTful Application Programming Model (RAP)
- Getting Started: Setting Up the Development Environment and Trial Account

Module 3: Configuring ABAP CDS Annotations in the Back End

Topics

- Creating an OData V4 Service
- Creating a List Report Using ABAP CDS Annotations

Module 4: Getting an Overview of SAP Fiori Tools

Topics

- Using SAP Fiori Tools to Boost Your App Development
- Creating an SAP Fiori Elements App Using the Application Generator

Module 5: Understanding SAP Fiori Elements Floorplans

Topics

- Getting an Overview of the Available Templates
- Examining List Report and Object Page Features

Module 6: Configuring General Settings of List Reports and Object Pages

Topics

- Configuring the Flexible Column Layout
- Configuring General List Report and Object Page Settings

Module 7: Configuring Tables

Topics

- Adding and Editing Table Columns of the List Report Table
- Configuring Table Column Content and Sorting

Module 8: Getting an Overview of the Navigation Concept in SAP Fiori Elements Apps

Topics

- Examining Internal Navigation
- Examining External Navigation

Module 9: Configuring Object Pages

Topics

- Configuring the Header Area of the Object Page
- Creating an Object Page and Adding Sections

Module 10: Examining the Flexible Programming Model

Topics

- Getting an Overview of the Flexible Programming Model
- Introducing Custom Pages
- Using Building Blocks
- Adding Custom Code to Extend SAP Fiori Elements Apps

Module 11: Deploying an SAP Fiori Elements App

Topics

- Getting an Overview of the Deploy Options
- Deploying an App to SAP BTP