

CLD200

Building Side-by-Side Extensions on SAP BTP

COURSE OUTLINE

Course Version: 22

Course Duration:

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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>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Application Consultant
- Development Consultant
- Super / Key / Power User
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- Developer
- Enterprise Architect
- Solution Architect

Lesson 1: Identifying the need for Side-By-Side Extensibility

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the need for Side-By-Side Extensibility

Lesson 2: Exploring the SAP Cloud Application Programming Model

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP Cloud Application Programming Model

Lesson 1: Introducing the OData protocol

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the OData standard for web-based applications

Lesson 2: Explaining JSON/YAML

Lesson Objectives

After completing this lesson, you will be able to:

- Describe JSON and YAML

Lesson 3: Discovering the End-to-End Use Case

Lesson Objectives

After completing this lesson, you will be able to:

- Perform the setup necessary to build your extension project

Lesson 4: Exercise: Creating a CAP-Based Service

Lesson Objectives

After completing this lesson, you will be able to:

- Create a CAP-based service

Lesson 1: Serving User Interfaces in CAP

Lesson Objectives

After completing this lesson, you will be able to:

- Identify different ways of serving UIs in CAP
- Discover the SAP Fiori Tools

Lesson 2: Exercise: Generating a User interface

Lesson Objectives

After completing this lesson, you will be able to:

- Generate a User Interface (UI) using SAP Fiori Elements

Lesson 1: Explaining Event Handling in CAP

Lesson Objectives

After completing this lesson, you will be able to:

- Evaluate when to use event handlers

Lesson 2: Explaining the Need for Custom Business Logic

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the need for Custom Business Logic

Lesson 3: Describing Error Handling

Lesson Objectives

After completing this lesson, you will be able to:

- Explain error handling

Lesson 4: Exercise: Adding Custom Business Logic

Lesson Objectives

After completing this lesson, you will be able to:

- Add custom business logic

Lesson 1: Explaining Extensibility and Connectivity in CAP

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the extensibility and connectivity capabilities in CAP

Lesson 2: Exercise: Adding an External Service

Lesson Objectives

After completing this lesson, you will be able to:

- Add and consume an external service

Lesson 1: Describing Authorization and Trust Management (XSUAA)

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP Authorization and Trust Management service

Lesson 2: Exercise: Defining CDS Restrictions and Roles

Lesson Objectives

After completing this lesson, you will be able to:

- Define CDS Restrictions and Roles

Lesson 1: Identifying Deployment Options in CAP

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the deployment options of a CAP application

Lesson 2: Explaining the Deployment Process

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the Cloud Foundry deployment process of a CAP application
- Describe the basic concepts about the MTA development project and understand the information contained in the mta.yaml file

Lesson 3: Using the Cloud Foundry CLI

Lesson Objectives

After completing this lesson, you will be able to:

- Use the Cloud Foundry Command Line Interface (CF CLI)

Lesson 4: Exercise: Preparing the Application for Deployment

Lesson Objectives

After completing this lesson, you will be able to:

- Prepare the application for deployment

Lesson 5: Exercise: Performing a Manual Deployment

Lesson Objectives

After completing this lesson, you will be able to:

- Performing a manual deployment

Lesson 1: Describing Continuous Integration and Delivery

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the principles and benefits of continuous integration and delivery

Lesson 2: Exercise: Creating and Connecting a Remote Git-Repository

Lesson Objectives

After completing this lesson, you will be able to:

- Create and connect a GitHub repository

Lesson 3: Exercise: Enabling SAP Continuous Integration and Delivery

Lesson Objectives

After completing this lesson, you will be able to:

- Enable SAP Continuous Integration and Delivery

Lesson 4: Exercise: Configuring a SAP Continuous Integration and Delivery Job

Lesson Objectives

After completing this lesson, you will be able to:

- Configure a job in the SAP Continuous Integration and Delivery service

Lesson 5: Exercise: Verifying the Build Success

Lesson Objectives

After completing this lesson, you will be able to:

- Start monitoring a job in SAP Continuous Integration and Delivery