

# UX402

## Advanced SAPUI5 Development

### COURSE OUTLINE

Course Version: 23

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
- Developer
- Enterprise Architect
- Solution Architect





## Lesson 1: Designing a Full-screen Application

### Lesson Objectives

After completing this lesson, you will be able to:

- Design a full-screen application using sap.m.App

## Lesson 2: Implementing Router Configuration

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement router configuration for a full-screen application

## Lesson 3: Implementing Navigation

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement views and navigation for a full-screen application

## Lesson 4: Developing a Full-screen Application

### Lesson Objectives

After completing this lesson, you will be able to:

- Develop a full-screen application in SAP BAS



## Lesson 1: Designing a List-Detail Application

### Lesson Objectives

After completing this lesson, you will be able to:

- Design a list-detail application using `sap.f.FlexibleColumnLayout`

## Lesson 2: Implementing Router Configuration

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement router configuration for a list-detail application

## Lesson 3: Implementing Views and Controller

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement views and controllers for a list-detail application

## Lesson 4: Working with the Device API

### Lesson Objectives

After completing this lesson, you will be able to:

- Define the Device API

## Lesson 5: Implementing View Synchronization

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement synchronization functionality between list and detail view

## Lesson 6: Implementing Navigation

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement navigation in a list-detail application

## **Lesson 7: Developing a List-Detail Application**

### **Lesson Objectives**

After completing this lesson, you will be able to:

- Develop a List-Detail Application

## Lesson 1: Extending Standard Controls

### Lesson Objectives

After completing this lesson, you will be able to:

- Use the capabilities of the standard controls in the SAPUI5 framework.

## Lesson 2: Developing a Standard Control Extension

### Lesson Objectives

After completing this lesson, you will be able to:

- Develop a Standard control Extension

## Lesson 3: Creating Custom Controls

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement custom controls using the SAPUI5 framework

## Lesson 4: Developing a Custom Control

### Lesson Objectives

After completing this lesson, you will be able to:

- Develop a Custom Control

## Lesson 5: Creating Control and Component Libraries

### Lesson Objectives

After completing this lesson, you will be able to:

- Recognize the structure of a custom library

## Lesson 6: Developing a Reusable UI Library

### Lesson Objectives

After completing this lesson, you will be able to:

- Develop a reusable UI library

## Lesson 1: Performing Unit Tests with Qunit

### Lesson Objectives

After completing this lesson, you will be able to:

- Run unit tests with Qunit

## Lesson 2: Implementing Unit Tests with QUnit

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement a unit test with QUnit

## Lesson 3: Performing Integration Tests with One-Page Acceptance (OPA5) Tests

### Lesson Objectives

After completing this lesson, you will be able to:

- Perform integration tests with OPA5

## Lesson 4: Implementing OPA Tests

### Lesson Objectives

After completing this lesson, you will be able to:

- Implement an OPA test





## Lesson 1: Working with Smart Controls

### Lesson Objectives

After completing this lesson, you will be able to:

- Working with Smart Controls



## Lesson 1: Working with GIT

### Lesson Objectives

After completing this lesson, you will be able to:

- Use GIT as a version control system for tracking changes in files

## Lesson 2: Creating a Local GIT Repository

### Lesson Objectives

After completing this lesson, you will be able to:

- Create a local GIT repository

## Lesson 3: Pushing Changes to a Remote GIT Repository

### Lesson Objectives

After completing this lesson, you will be able to:

- Push changes from your local Git repository to a remote GIT repository

## Lesson 4: Working with Branches

### Lesson Objectives

After completing this lesson, you will be able to:

- Use Git branches for starting an independent line of development

## Lesson 5: Creating Git Branches

### Lesson Objectives

After completing this lesson, you will be able to:

- Create Git branches