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SAP Fiori & UI5 Curriculum Online Training by Certified Consultant

Course Overview

SAP Fiori & UI5 is SAP's modern user experience (UX) framework for developing responsive, role-based, and enterprise-grade web applications. This course provides comprehensive training on SAP Fiori design principles, SAPUI5 development, OData services, Fiori Elements, Launchpad configuration, and application deployment.

Participants will learn how to build modern SAP applications that work seamlessly across desktops, tablets, and mobile devices while integrating with SAP S/4HANA and other SAP systems.

Course Duration: 45–60 Hours

Mode: Online

Level: Beginner to Advanced

Prerequisites: Basic SAP knowledge, HTML, CSS, JavaScript fundamentals

Module 1: Introduction to SAP Fiori and SAPUI5

Topics Covered

- Introduction to SAP Fiori
- Evolution of SAP User Experience
- SAP Fiori Architecture
- SAPUI5 Framework Overview
- Fiori Design Principles
- SAP Fiori Application Types
- SAP Fiori Landscape Components
- SAP Front-End and Back-End Architecture
- SAP Fiori Launchpad Overview

Practical Exercises

- Explore SAP Fiori Applications
- Understand Fiori User Experience
- Navigate Fiori Launchpad

Module 2: SAPUI5 Fundamentals

Topics Covered

- Introduction to SAPUI5
- MVC Architecture
- UI5 Libraries
- Controls and Components
- Views and Controllers
- Data Binding Concepts
- JSON Models
- XML Views
- Event Handling
- Resource Management

Practical Exercises

- Create First SAPUI5 Application
 - Develop XML Views
 - Implement Controllers
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Module 3: Development Environment Setup

Topics Covered

- SAP Business Application Studio
- SAP Web IDE Overview
- SAPUI5 SDK
- Development Workspace Configuration
- Project Structure
- Development Tools
- Debugging Techniques

Practical Exercises

- Configure Development Environment
 - Create SAPUI5 Project
 - Test Applications Locally
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Module 4: SAPUI5 Controls and Layouts

Topics Covered

- Standard Controls
- Input Controls
- Tables and Lists
- Forms and Dialogs
- Layout Containers
- Navigation Controls
- Responsive Design Concepts
- Flexible Column Layout

Practical Exercises

- Design Responsive Screens
 - Create Forms and Tables
 - Implement Navigation
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Module 5: Data Binding and Models

Topics Covered

- Data Binding Concepts
- One-Way Binding
- Two-Way Binding
- Expression Binding
- JSON Model
- XML Model
- Resource Model
- OData Model
- Model Lifecycle

Practical Exercises

- Bind Data to Controls
 - Create Dynamic User Interfaces
 - Implement Two-Way Data Binding
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Module 6: OData Services and Gateway

Topics Covered

- Introduction to OData
- OData Architecture
- CRUD Operations
- SAP Gateway Overview
- Service Registration
- Entity Sets and Associations
- OData V2 and V4
- Service Testing

Practical Exercises

- Consume OData Services
 - Perform CRUD Operations
 - Test Gateway Services
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Module 7: Advanced SAPUI5 Development

Topics Covered

- Fragments
- Custom Controls
- Reusable Components
- Routing and Navigation
- Component-Based Development
- Validation Techniques
- Error Handling
- Performance Optimization

Practical Exercises

- Build Reusable Components
 - Implement Routing
 - Create Custom Controls
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Module 8: SAP Fiori Elements

Topics Covered

- Introduction to Fiori Elements
- Annotation-Based Development
- List Report Applications
- Object Page Applications
- Analytical List Pages
- Overview Pages
- Smart Controls
- Metadata Extensions

Practical Exercises

- Create List Report Application
 - Configure Object Pages
 - Implement Smart Controls
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Module 9: SAP Fiori Launchpad

Topics Covered

- Launchpad Architecture
- Catalogs
- Groups
- Spaces and Pages
- Tiles and Target Mappings
- Role-Based Access
- Launchpad Designer
- Content Manager

Practical Exercises

- Configure Launchpad
 - Create Tiles
 - Assign Roles and Catalogs
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Module 10: SAP Fiori Application Types

Topics Covered



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- Transactional Applications
- Analytical Applications
- Fact Sheet Applications
- Worklist Applications
- Overview Page Applications
- Mobile Applications

Practical Exercises

- Build Different Fiori App Types
 - Configure User Navigation
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Module 11: SAP Fiori Design Guidelines

Topics Covered

- SAP Fiori UX Principles
- User-Centered Design
- Responsive Design
- Accessibility Standards
- SAP Design System
- Enterprise UX Best Practices

Practical Exercises

- Design User-Friendly Applications
 - Implement Accessibility Features
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Module 12: Security and Authorization

Topics Covered

- Authentication Methods
- Single Sign-On (SSO)
- Authorization Concepts
- Role Management
- Security Best Practices
- Secure OData Services



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Practical Exercises

- Configure User Authorizations
 - Secure Applications
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Module 13: Integration with SAP S/4HANA

Topics Covered

- SAP S/4HANA Integration
- CDS Views
- OData Exposure
- Embedded Analytics
- Business Data Consumption
- Extension Scenarios

Practical Exercises

- Connect Fiori Apps with SAP S/4HANA
 - Consume CDS-Based OData Services
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Module 14: Deployment and Lifecycle Management

Topics Covered

- Application Packaging
- Deployment Methods
- SAP BTP Deployment
- Transport Management
- Version Control with Git
- Application Maintenance

Practical Exercises

- Deploy Application to SAP System
 - Configure Transport Requests
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Module 15: Performance Optimization and Troubleshooting



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Topics Covered

- UI5 Performance Techniques
- Application Diagnostics
- Browser Developer Tools
- SAPUI5 Debugging
- Network Optimization
- Error Analysis

Practical Exercises

- Analyze Application Performance
 - Troubleshoot Runtime Issues
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Module 16: Real-Time Project

End-to-End SAP Fiori & UI5 Project

Project Objectives

- Design Enterprise User Interface
- Develop SAPUI5 Application
- Create OData Services
- Configure SAP Fiori Launchpad
- Implement Security
- Deploy and Test Application