

TECHSCHOLARSS EDUCATION & TRAINING SERVICES PVT LTD

SAP Fiori Course Curriculum

SAP Fiori & SAPUI5 | Modern SAP User Experience

Industry-focused SAP Fiori training covering Fiori architecture, Launchpad, catalogs, spaces and pages, roles and authorizations, SAPUI5 development, MVC, controls, data binding, OData, routing, fragments, Fiori Elements, annotations, freestyle applications, deployment, testing, troubleshooting, SAP Gateway, S/4HANA integration and real-world Fiori implementation projects.

Website: www.techscholarss.com

Course Overview

The SAP Fiori curriculum is designed to build practical skills for developing, configuring and supporting modern SAP user experiences. It covers Fiori Launchpad administration, security and role-based access, SAPUI5 application development, OData services, Gateway integration, Fiori Elements, annotations, application deployment and S/4HANA business-process integration.

Course Objectives

- Understand SAP Fiori architecture and the role of SAPUI5 in modern SAP applications.
- Configure and manage Fiori Launchpad, catalogs, spaces, pages and business roles.
- Understand Fiori app types, application lifecycle and user-experience principles.
- Develop SAPUI5 applications using MVC architecture and reusable controls.
- Work with XML views, controllers, models, data binding, fragments and formatters.
- Consume and work with OData services and SAP Gateway.
- Implement routing, navigation, validation, filtering, sorting and application state.
- Build Fiori Elements applications using annotations and metadata-driven development.
- Understand authorization, role assignment and secure Fiori application access.
- Deploy and troubleshoot Fiori applications in SAP environments.
- Integrate Fiori applications with SAP S/4HANA business processes and backend services.
- Apply Fiori and SAPUI5 skills to real-world implementation and support projects.

Module 1: SAP Fiori Introduction & UX Architecture

Tools Covered: SAP Fiori, SAPUI5, SAP S/4HANA

- Introduction to SAP Fiori
- Fiori design principles
- Role-based, responsive and simple user experience
- Fiori application types
- Transactional, analytical and fact-sheet concepts
- SAPUI5 overview
- Fiori and S/4HANA architecture
- Frontend and backend architecture
- Fiori implementation and support lifecycle

Module 2: Fiori Launchpad Architecture & Configuration

Tools Covered: Fiori Launchpad, SAP Gateway, S/4HANA

- Fiori Launchpad architecture
- Launchpad content concepts
- Tiles and target mappings
- Catalogs
- Spaces and pages
- Groups and legacy content concepts
- Launchpad configuration
- System aliases and backend connectivity
- Launchpad troubleshooting

Module 3: Fiori Security, Roles & Authorizations

Tools Covered: PFCG, Launchpad Roles, Authorization Objects

- Fiori security architecture
- Business roles
- PFCG role concepts
- Catalog assignment
- Space and page assignment
- Target mappings
- Authorization objects
- Frontend and backend role assignment
- User access troubleshooting
- Security best practices

Module 4: SAPUI5 Fundamentals

Tools Covered: SAPUI5, JavaScript, HTML5, CSS

- SAPUI5 framework overview
- UI5 project structure
- Bootstrap and application initialization
- Controls and control libraries
- XML views
- JavaScript controllers
- CSS styling concepts
- UI5 lifecycle
- Reusable UI components
- Application debugging

Module 5: MVC Architecture & Application Development

Tools Covered: SAPUI5 MVC, XML Views, Controllers

- Model-View-Controller architecture
- View development
- Controller lifecycle
- Event handling
- Controller-to-view interaction
- Reusable logic
- Component architecture
- Manifest configuration
- Application initialization
- MVC troubleshooting

Module 6: UI5 Controls, Layouts & Responsive Design

Tools Covered: SAPUI5 Controls, Responsive UI

- Common SAPUI5 controls
- Input and form controls
- Tables and lists
- Buttons, dialogs and popovers
- Layouts and containers
- Responsive design
- Fragments
- Value help concepts
- Accessibility concepts
- UI performance considerations

Module 7: Models & Data Binding

Tools Covered: JSONModel, ODataModel, ResourceModel

- UI5 model concepts
- JSONModel
- ODataModel
- ResourceModel and i18n
- One-way and two-way binding
- Property binding
- Aggregation binding
- Expression binding
- Formatter functions
- Model debugging and troubleshooting

Module 8: OData Services & SAP Gateway

Tools Covered: OData, SAP Gateway, SEGW

- OData architecture
- OData entities and entity sets
- CRUD operations
- OData service metadata
- SAP Gateway overview
- SEGW service development concepts
- Service registration and activation
- Testing OData services
- Error handling
- Frontend-backend connectivity troubleshooting

Module 9: Routing, Navigation & Application Flow

Tools Covered: SAPUI5 Routing, manifest.json

- UI5 routing concepts
- Routes and targets
- Manifest routing configuration
- Navigation between views
- Route parameters
- Deep-link navigation
- Navigation back and forward
- Fiori intent-based navigation
- Application state
- Routing troubleshooting

Module 10: Fiori Elements & Metadata-Driven Development

Tools Covered: Fiori Elements, OData, Annotations

- Fiori Elements overview
- Metadata-driven application development
- List Report
- Object Page
- Analytical List Page overview
- Worklist and overview-page concepts
- Annotations
- UI, Selection and LinelItem annotations
- Extensibility concepts
- Fiori Elements troubleshooting

Module 11: Annotations & Advanced UI Adaptation

Tools Covered: CDS Annotations, UI Annotations, Adaptation

- Annotation concepts
- Local and backend annotations
- CDS-based annotations overview
- UI.LinelItem
- UI.SelectionFields
- UI.HeaderInfo
- UI.Facets
- Value-list and search-help concepts
- UI adaptation
- Annotation debugging

Module 12: Forms, Tables, Filters & User Interaction

Tools Covered: SAPUI5, Smart Controls, Fiori Elements

- Form design
- Responsive tables
- Sorting and filtering
- Search functionality
- Pagination concepts
- Validation and messages
- Dialog and fragment usage
- Value help
- Smart controls overview
- User-interaction troubleshooting

Module 13: Fiori Launchpad Content Management

Tools Covered: Launchpad Designer/Content Manager, Catalogs, Spaces

- Launchpad content administration
- Business catalogs
- Spaces and pages
- Tiles and target mappings
- Semantic objects and actions
- Intent-based navigation
- Content transport concepts
- Role-based content assignment
- Content validation
- Launchpad content troubleshooting

Module 14: Deployment, Testing & Application Lifecycle

Tools Covered: BAS, SAP Business Application Studio, ABAP Repository

- Fiori application deployment concepts
- SAP Business Application Studio overview
- Development and testing lifecycle
- Application packaging
- Deployment to SAP environments
- Transport concepts
- Version management
- Browser and frontend testing
- Application logs and debugging
- Production deployment troubleshooting

Module 15: Fiori Integration with S/4HANA & Backend

Tools Covered: SAP S/4HANA, OData, CDS, Gateway

- S/4HANA Fiori architecture
- Standard Fiori applications
- Backend service integration
- CDS views overview
- CDS annotations
- OData exposure concepts
- SAP Gateway integration
- Backend authorization
- Frontend-backend issue analysis
- S/4HANA integration troubleshooting

Module 16: Fiori Performance, Debugging & Support

Tools Covered: Chrome DevTools, SAP Gateway, Fiori Tools

- Fiori application debugging
- Browser developer tools
- Network and OData analysis
- Console and JavaScript errors
- UI5 performance concepts
- OData performance
- Caching and cache invalidation concepts
- Launchpad troubleshooting
- Authorization issue analysis
- Production-support best practices

Module 17: Real-World SAP Fiori Projects

Tools Covered: SAPUI5, Fiori Elements, S/4HANA, OData

- Fiori Launchpad implementation project
- Business-role and catalog configuration project
- Custom SAPUI5 application project
- MVC-based CRUD application
- OData service integration project
- Fiori Elements List Report and Object Page project
- CDS and annotation-based application scenario
- Intent-based navigation project
- S/4HANA backend integration project
- Fiori deployment and transport scenario
- Performance and production-support project
- End-to-end SAP Fiori implementation and support case study

Module 18: Resume Building & Interview Preparation

Tools Covered: SAP Fiori Scenarios, Mock Interviews

- SAP Fiori resume preparation
- Project profile preparation
- Fiori architecture questions
- Launchpad and security questions
- SAPUI5 MVC questions
- Controls and responsive-design questions
- Models and data-binding questions
- OData and Gateway questions
- Routing and navigation questions
- Fiori Elements and annotation questions
- S/4HANA integration questions
- Scenario-based troubleshooting and mock interviews

Tools & Technologies Covered

- SAP Fiori
- SAPUI5
- JavaScript
- HTML5 and CSS
- SAP Fiori Launchpad
- Business Catalogs, Spaces and Pages
- PFCG and Fiori Authorizations

- OData and SAP Gateway
- SAP Business Application Studio
- Fiori Elements
- CDS Views and UI Annotations
- XML Views and MVC
- JSONModel and ODataModel
- Fiori Intent-Based Navigation
- SAP S/4HANA Integration

Career Opportunities After This Program

- SAP Fiori Developer
- SAPUI5 Developer
- SAP Fiori Consultant
- SAP Fiori/UI5 Technical Consultant
- SAP S/4HANA Fiori Consultant
- SAP Fiori Application Developer
- SAP UI Developer
- SAP Gateway/OData Developer
- Fiori Elements Developer
- SAP Frontend Developer
- SAP Technical Consultant
- SAP Application Support Consultant

Why Choose TechScholarss?

- Industry-oriented SAP Fiori and SAPUI5 curriculum
- Hands-on application-development practice
- Real-world Launchpad and S/4HANA scenarios
- Live project-based learning
- Practical OData, Fiori Elements and UI5 exercises
- Experienced trainers
- Flexible online and offline batches
- Resume and interview preparation
- Internship support
- Placement assistance
- Industry-focused certification

Certification & Program Outcome

Students completing the program can receive a TechScholarss SAP Fiori Course Certificate, subject to the institute's completion criteria. By the end of the program, learners should be able to understand SAP Fiori architecture, configure Launchpad content and roles, develop SAPUI5 applications using MVC, work with models and OData services, build Fiori Elements applications with annotations, implement navigation and backend integration, deploy and troubleshoot

applications, and participate in real-world SAP Fiori and S/4HANA implementation and production-support projects.

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