

SAP UI5/FIORI/ODATA

Week 1.

Introduction to JavaScript.

- What is JavaScript.
- Variables in JavaScript.
- Objects in JavaScript
- Arrays in JavaScript
- Methods and Functions in JavaScript
- Loops in JavaScript
- Debugging in JavaScript
- Conditions in JavaScript
- Switch case statements in JavaScript

Introduction to UI5.

- What is UI5.
- Tools for UI5 app Development.
- Installation Guide and Support.
- MVC Architecture.
- Version in UI5.
- Basic Designs in UI5 using XML views.
- Responsiveness of Apps in UI5.
- Understanding (Properties, Events, methods, Aggregations and Associations) of UI5 Controls.

Week 2

Controllers in UI5.

- What is controller in UI5
- Definition in Controller.
- Basic validations in controllers.
- Understanding Life Cycle Functions in Controllers.
- Debugging UI5 Apps.
- Understanding Console Management of Google Chrome for learning debugging skills.
- Does and Don'ts in controllers.

Fragments in UI5.

- What are fragments in UI5.
- Understanding Nested Views in UI5.

- Implementing Dialog Controls in Fragments.
- Best Practices related to Fragments.

Week 3

i18n in UI5

- what is i18n in UI5.
- implementing i18n in xml view.
- Implementing i18n in Controller.
- Implementing i18n in Fragments.
- Handling i18n in Fiori Launchpad.
- Dynamic handling of i18n.

Models in UI5

- What are models in UI5
- Types of Models in UI5
- Understanding and Implementing different Models with real time Examples)
- JSON Model, Resource Model with Practice Examples.

Binding in UI5

- What is Binding in UI5?
- Type of bindings in UI5.
- Difference between one-way and two-way bindings in UI5 with practical examples

Week 4 Formatters in UI5

- What are formatters in UI5.
- Implementing formatter in XML view
- Implement formatter in Controller
- Implementing formatter in Fragments

Expression Binding in UI5

- What is expression Binding
- implement expression binding in XML views.
- Implementing expression bindings in fragments

Navigation and Routing in UI5.

- Difference between Navigation and Routing in UI5.

- Navigation from one view to another View.
- Passing Data and navigation from one view to another.
- Best practices of Navigations.

Week 5

How to Create Tables in ABAP

- Understanding tables, data elements, views and types in ABAP.
- Inserting data in Tables.
- Deleting and updating data in Custom tables.

What is oData?

- Understanding transaction for oData Services.
- How to Register and Activate oData Gateway Services.
- Understanding DPC and MPC Classes.
- How to import tables and RFC in oData
- Understanding Entity Types, Entity Set and Associations in Gateway Project.
- Implementing various operations in oData
- Create in oData (create Entity)
- Read in oData (Get Entity and Get Entity Set)
- Update in oData (Update Entity)
- Delete in oData (Delete Entity)
- Queries in oData (Filter Operations)

Week 6

Integration of UI5 App with oData Service

- How to connect UI5 app with Gateway.
- Implement CRUD operations with UI5 and oData.
- Implementing Best Practices with Binding the Gateway Services with UI5 Apps.
- Testing of UI5 apps with oData.

Deployment of UI5 App to System.

- Understanding Deployment of UI5 apps to System.
- Understanding Deployment of Apps using UI5 ABAP Repository.
- Understanding basics concept of Cloud Platform for UI5 Apps.
- Creating transports and Package for the deployment process.

What is Fiori?

- Understanding Fiori Design Principles and Guidelines.
- Understanding Fiori UX Strategy.

- Understanding Fiori Tile Configuration Process.
- Understanding lpd_cust complete config Process.
- Understanding Catalogs Tiles and groups configurations.
- Understanding Semantic Objects.
- Understanding Embedded and Central Hub Deployment Systems. □ Deployment of FIORI Apps to Fiori Launchpad.

FIORI Standard Apps

- How to Activate a Standard Fiori App.
- How to Extend a Standard Fiori App.

INDEX