

Note: Before You see the Course Content, lets Read out few Basics understandings about the subject.

What is UI5?

- UI5 is a Framework.
- UI5 is the Next Generation Mobility Module, which helps business to transform their Business from Local Machines to Global Platforms.
- UI5 works on ECC and S/4 Both.
- UI5 Helps in building Apps that runs on Mobile Tablet and Desktop.

What is FIORI?

FIORI is a Product which offers various Services like Fiori Launchpad, FIORI Design Principles and Guidelines and Fiori Standard Apps on Fiori App Library.

Difference Between UI5 and Fiori?

Most of the People have confusion about difference between UI5 and Fiori.

- UI5 is a Framework, FIORI is a Product.
- UI5 is a technical Aspect, Fiori is a functional Aspect.
- UI5 consist of Code, Fiori Consist UX Strategy of Activations, configurations and set- ups.

Let's Now understand the Pre – Requisite of the Course.

To Learn UI5 and Fiori, Only and Only JS(JavaScript) is the Pre – Requisite which is covered in the Training Program.

Should we Know HTML and CSS?

No, without HTML and CSS knowledge, we can still develop UI5 Apps, as the Design is purely done in XML views.

Target Audience for this Specific Training Program.

- Freshers with any coding Background.
- ABAPer's.
- Freshers.
- Solution Architects.
- Application Developers.

Course

Content.

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.
- Process and steps on Running Apps in BAS.
- Basic npm commands.
- 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 Fragments 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, oData Model and XML 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 & 7

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.

Week 8

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.



- How to Activate a Standard Fiori App.
- How to Extend a Standard Fiori App.
- How to extend an oData Gateway Service.