

SAP UI5 CURRICULUM

Introduction

- What is SAP UI5 framework?
- Development tools and introduction
- Introduction to SAP WebIDE personal edition and WebIDE Full Stack Edition
- WebIDE Setup and installation
- Configuration from local computer for WebIDE
- Connect WebIDE to gateway
- Destination configuration

HTML 5

- Creating our first web page
- Line breaks, paragraphs and headers
- Bold, italics and comments
- Lists
- Linking to another page
- images
- directory structures
- New audio tag, New video tag
- Table
- Forms, Get/Post method, action
- Document Object Model (DOM)
- Relating HTML Elements

CSS3

- Cascading Style Sheet (CSS)
- External style sheet
- Font properties
- CSS comments
- Box model, padding, border, margin, padding
- Classes
- Div and Span
- Working with colors
- Background images
- ID's, child selectors, pseudo classes
- Styling links, styling lists



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- Rounded corners
- Linear gradient
- Float and clear
- New tags for the layout

Java Script (JS)

- Introduction to JavaScript
- Statements and Comments, Finding Errors, Variables, Data Types
- Operators, Strings, Events
- Functions, Functions with Parameters, Functional with Multiple Parameters
- Variable scope, Arrays
- Statements if, else, nesting if, Complex Conditions, switch, While loop, for loop
- Objects, properties and methods, Referencing elements in JavaScript
- Changing an image source, Forms, form values, Form validation text boxes, and passwords, Radio buttons, Check Boxes
- Creating HTML Element, Modifying HTML Elements
- Appending HTML Elements, Deleting HTML Elements
- Regular Expressions, Object oriented JavaScript, Prototype in JavaScript
- JavaScript Literals, JavaScript Objects, properties, and functions

jQuery (jq)

- How to refer external JS libraries like jQuery
- Write less do more, jQuery functions, actions and methods
- Selectors, Events, DOM Manipulation

SAP UI5 framework and Controls

- Installing SAPUI5
 - SAPUI5 Tools
 - Versioning of SAPUI5
 - Upgrading jQuery for SAPUI5
 - Documentation
- Before you start
- Naming Conventions for Control and Application Development
- Browser and Platform Matrixes
- Compatibility Rules
- Experimental Flag
- Security Information for SAPUI5
- Getting Started with SAPUI5
 - Create Your First SAPUI5 Application
 - Create Your First Mobile SAPUI5 Application
 - Develop Your First Application using SAPUI5 Tools
 - Testing SAPUI5 Applications



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Concepts

- Model View Controller (MVC)
- Resource Handling
- Libraries
- SAPUI5 Components
- Fragments

Application Best Practice

- Preparing
- Building

Initializing and Loading SAPUI5

- Bootstrapping: Loading and Initializing SAPUI5 in HTML Pages
- Initialization Process
- Configuration of the SAPUI5 Runtime

Models and Data Binding

- Data Binding: Getting Started
- Models and Data Binding in Applications
- Binding Types
- Using the Data Binding Type System
- Calculated Fields for Data Binding
- Using Data Binding for Data Export
- Property Metadata Binding

Building the UI

- Instantiating Views
- Implementing XML Views
- Handling Events in JSON Views
- Typed Views and Controllers
- File Names and Locations (View and Controller)
- View Cloning
- Support for Unique IDs
- Fragments
- HTML Templating in SAPUI5
- Navigation
- Working with Controls in SAPUI5
- Declarative Support



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Structuring SAPUI5 Applications

- Modularization and Resource Handling
- SAPUI5 Components

Translating SAPUI5 Applications

- Identifying the Language Code / Locale
- Resource Bundles
- Use of Localized Texts in Applications
- Support Translation

Component.js

- Example: Component Configuration
- Controller Extension & Controller Replacement
- I18n Resource Text Customization
- Limitations
- Caveats Regarding Stability Across Application Upgrades
- Supportability

Building Mobile Applications with SAPUI5

- Handling Navigation and Lifecycle Events
- Adapting to Platform and Form Factors
- Working with Lists and Tables
- Triggering Phone, SMS and E-Mail
- Scrolling in SAPUI5 Mobile
- Running SAPUI5 Mobile Apps in Hybrid Web Containers
- Using Images in Mobile Applications
- Message Handling
- Mobile Events
- Performance Behavior
- Building Charts with SAP VIZ

Troubleshooting

- Debugging
- Logging and Tracing
- Troubleshooting: Common Issues
- Browser Debugging for ABAP Developers
- SAPUI5 Diagnostics
- SAPUI5 Mobile Diagnostics



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Testing in SAPUI5

Developing Content for SAPUI5

- Development Conventions and Guidelines

WEB-IDE

- Create a new SAPUI5 application
- Development process overview
- Development environment overview
- Building SAP Fiori-like UIs with SAPUI

KEY FEATURES



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