Duration: 40+ Hours – A promise of no copy paste

UI5 AND UX TRAINING WITH ODATA ON WEBIDE WITH XML VIEWS

Target Audience: You are working in domain or fresh start your carrier in as Application Program or UI Developer. May be already working in BO, BI, BSP, Webdynpro technology. You seeing a shift in industry to new UX and wants to adapt yourself to new technologies.

Phase 1: Foundation for UI5

Getting Started

- What is UI5 framework?
- Development tools and introduction
- Eclipse setup
- WebIDE Setup and installation
- Configuration from local computer for WebIDE
- Connect WebIDE to gateway
- Destination configuration

HTML5

- 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

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
- Rounded corners
- Linear gradient

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- 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

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- DOM Manipulation

Phase 2: UI5 framework and Controls

- Installing UI5
  - o UI5 Tools
  - o Versioning of UI5
  - o Upgrading jQuery for UI5
  - o Documentation
- Before you Start
- Naming Conventions for Control and Application Development
- Browser and Platform Matrixes
- Compatibility Rules
- Experimental Flag
- Security Information for UI5
- Getting Started with UI5
  - o Create Your First UI5 Application
  - o Create Your First Mobile UI5 Application
  - o Develop Your First Application using UI5 Tools
  - o Testing UI5 Applications
- Concepts
  - o Model View Controller (MVC)
  - o Resource Handling
  - o Libraries
  - o UI5 Components
  - o Fragments
- Application Best Practice
  - o Preparing
  - o Building
- Initializing and Loading UI5
  - o Bootstrapping: Loading and Initializing UI5 in HTML Pages
  - o Initialization Process
  - o Configuration of the UI5 Runtime
- Models and Data Binding
  - o Data Binding: Getting Started
  - o Models and Data Binding in Applications
  - o Binding Types
  - o Using the Data Binding Type System
  - o Calculated Fields for Data Binding
  - o Using Data Binding for Data Export
  - o Property Metadata Binding
- Building the UI

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- 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 UI5
- Navigation
- Working with Controls in UI5
- Declarative Support
- Structuring UI5 Applications
  - Modularization and Resource Handling
  - UI5 Components
- Translating UI5 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 UI5
  - Handling Navigation and Lifecycle Events
  - Adapting to Platform and Form Factors
  - Working with Lists and Tables
  - Triggering Phone, SMS and E-Mail
  - Scrolling in UI5 Mobile
  - Running UI5 Mobile Apps in Hybrid Web Containers
  - Using Images in Mobile Applications
  - Message Handling
  - Mobile Events
  - Performance Behavior
  - Building Charts with VIZ
- Troubleshooting
  - Debugging
  - Logging and Tracing

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- o Troubleshooting: Common Issues
- o Browser Debugging for Application Program Developers
- o UI5 Diagnostics
- o UI5 Mobile Diagnostics
- Testing in UI5
- Developing Content for UI5
    - o Development Conventions and Guidelines
- WEB-IDE
    - o Create a new UI5 application
    - o Development process overview
    - o Development environment overview
    - o Building UX -like UIs with UI5
    - o Deploy to UI5 Application Program Repository

Phase 3: UX

- Difference between UX and UI
- Trial to experience UX
- Creating Container based UX App
    - o Worklist app
    - o Master details app
- UI Controls
    - o List
        - ▪ Object List Item
        - ▪ Display list items
        - ▪ Action list item
        - ▪ Standard list item
        - ▪ Feed list item
        - ▪ Action list item
        - ▪ Column list item
    - o List operation
        - ▪ Sorting
        - ▪ Searching
        - ▪ Filtering
        - ▪ Grouping
    - o List Modes
        - ▪ Single Select
        - ▪ Multi select
        - ▪ Master select
        - ▪ Delete

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- o Input fields
    - Normal one
    - Validations
    - Value help
    - Tokenizer
- o Dropdowns
    - Select
    - Combo box
    - Multi Combo box
- o Tables
    - Column
    - Responsive table
    - Grid Table
    - Flex table
- o Icon tab filters
- o Message API
- Scaffolding template
- Dependency management
- Custom controls
- Search field and LIVE search
- Master details- Split app
- Router
- Routing configuration
- Manifest.json
- Neo-app.json
- Component.js
- Versioning
- Google map integration
- Using WebIDE templates to create apps

Phase 4: OData in NetWeaver Gateway

- Introduction NetWeaver Gateway
- NetWeaver Gateway Usage
- Gateway Architecture overview
- Technical Components Involved
- Introduction to REST
- Introduction to OData
- OData advantages

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- Introduction to OData formats JSON and XML
- Overview of Structure of an OData Service
- Overview of Service Document
- Overview of Service Metadata Document
- Perform CRUD with OData
- Service generation technique
- Create
- Read
- Update
- Delete
- OData Query Options
- Filtering and Projecting ($filter and $select)
- Sorting ($orderby)
- Client-Side Paging ($top, $skip, and $inlinecount)
- Counting ($count)
- Inlining ($expand)
- Formatting ($format)

Complementary

- **OOPS Application Program Complementary Sessions**
  - What is Object and class?
  - Why to define a class?
  - Components of class
  - Attributes - Instance, static, constant
  - Methods- instance, static
  - Role of Attributes & Methods in OOPs programming
  - Defining class in class builder
  - Accessing Attributes in a method
  - Instantiation of object in report program
  - Visibility - Public, Private, Protected
  - Method parameters - importing, exporting, changing, returning
  - Relationship between objects
  - Association
  - Aggregation
  - Composition
  - Realization
  - Generalization
  - Interface
  - Abstract class
  - Type casting

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- o Widening Casting
- o Narrow Casting

- **Anubhav's learning series access to build apps end to end on S/4**