

Duration: 24-30 Hours – A promise of no copy paste

Server Access- 30 Days

WEBDYNPRO APPLICATION PROGRAM TRAINING

Web Dynpro Introduction

- What is Webdynpro Application Program?
- Lifecycle of Webdynpro Application Program

Target Audience: Application Program Training builds the proficiency in using the Application Program, A high-level programming language used for building business applications, Corporate IT administrators, Consultants.

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- Advantage of Webdynpro Application Program
- Introduction to entities
 - Controllers o Context
 - APIs
 - Configuration
 - Layouts
 - Definition of component and properties
- **Webdynpro JAVA v/s Webdynpro Application Program**
- **Model View Controller (MVC) architecture**
 - Model – Data model
 - View – UI model
 - Controller – Logical programming
 - Layering concept
 - Relational model with model and controller
 - Design pattern and OOPS
- **Webdynpro Services**
 - Configuring services in for Webdynpro
 - View controller services
 - Creating web service for Webdynpro
 - Service calls and external services
 - Fully qualified domain name (FQDN) in Webdynpro
 - Configuring FQDN
 - Settings of FQDN
 - web application service security

Webdynpro Controllers

- Structure of controller
 - Attributes
 - Context section
 - Reuse section
 - Methods
 - Events
 - Model
 - Handlers
 - Inbound plug
 - Outbound plug
 - Layout

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- Hook methods
- Types of controller
 - Component controller
 - Configuration controller
 - Custom controller
 - Interface controller
 - Window controller
 - View controller
- Difference between view controller and component controller
- Difference between component controller and interface controller
- Hook methods
 - Component controller
 - DOINIT
 - DOEXIT
 - DOBEFORENAVIGATION
 - DOONAPPLICATIONSTATECHANGE
 - DOPOSTPROCESSING o Configuration controller
 - Custom controller
 - Interface controller
 - Window controller
 - DOONOPEN
 - DOONCLOSE
 - View controller
 - DOINIT
 - DOEXIT
 - DONMODIFYVIEW
 - DOBEFOREACTION
 - DOAFTERACTION Context
- Context
 - Introduction to context
 - Creating nodes
 - Creating attributes
 - Creating dependent nodes
 - Creating independent nodes
 - Creating iterative nodes
- Context node properties

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- Cardinality
 - 0..1
 - 0..n
 - 1..1
 - 1..n o Selection
 - 0..1
 - 0..n
 - 1..1
 - 1..n
- Singleton
- Supply function
- Initialize lead selection
- Behaviors of different properties
- Context mapping
 - Internal mapping
 - External mapping
 - Cross-component mapping
 - Reverse mapping
 - Mapping between reusable components
 - Inter-framework mapping
 - Reading node
 - Reading element
 - Creating single element using create_element method
 - Creating multiple elements bind_table
 - Creating structural element bind_static_attributes
 - Dynamically adding elements to context node
 - Deleting elements using remove_element
 - Navigating through context tree
 - Binding elements
 - Setting attribute values for single element using set_attribute
 - Setting attribute values for structural element using set_static_attributes
 - Setting attribute values for table element using set_static_attributes
 - Getting values from elements for single and complex element
- **Data binding**
 - Simple binding
 - Complex binding
 - Binding with singleton node
 - Binding with node having max cardinality n
 - Binding with single UI element
 - Binding with table UI element
 - Binding with tree UI element

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- Binding with properties of UI element
- Binding with attribute property of context element

User interface elements

- Input field
 - Creating input field
 - Setting ID for input field
 - Binding obligatory property of input field
 - Setting tooltip for input field
 - Setting properties like enable, read-only etc.
 - Coding for input field
 - Defaulting value in input field
 - Setting fonts for input field
 - Disabling input field
 - Hiding input field dynamically
 - Password type input field

User interface elements

- Text View
 - Creating Text view
 - Setting ID for Text view
 - Binding obligatory property of Text view
 - Setting tooltip for Text view
 - Setting properties like enable, read-only etc.
 - Coding for Text view
 - Defaulting value in Text view
 - Setting fonts for Text view
 - Disabling Text view
 - Hiding Text view dynamically
 - Password type Text view
- **Buttons**
 - Creating buttons
 - Setting id for button
 - Adding text to button
 - Creating action for button
 - Handling on_click event
- **Text edit control**
- **Check box**
- **Line**
- **VGutter**
- **Title bar**

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- **Value selectors**
 - Radio Buttons
 - By Index
 - By Key
 - Drop Down
 - By Index
 - By Key
 - List Box
 - By Index
 - By Key
- **Table UI Element**
 - Creating Table
 - Creating cell editors
 - Adding label and columns to cell editor
 - Adding table columns from context node
 - Adding table columns and cell editor manually
 - Changing cell editors
 - Binding table UI element
 - Setting data into table UI element from Bind_table
 - Disabling table columns
 - Hiding table columns
 - Changing color of table columns
 - Deletion of table row
 - Using Context element delete
 - Using Node value delete
 - Changing table row and updating context
 - Changing table layout
 - Setting table title
 - Getting related data using Supply function
 - Creating table toolbar and adding table buttons
 - Handling table events
 - Row select
 - Row click
 - Column select
 - Cell click
 - Change cell
 - On enter
- **Tree UI element**
 - Creating hierarchy
 - Maintaining table context according to hierarchy

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- Setting text for root node
- Binding levels of tree
- Code for each level of tree
- Accessing data for tree in event handlers
- Using element as signature of event method
- Setting tree title
- Creating tree toolbar and adding tree buttons
- Deletion of tree branches
- Changing data in tree hierarchy
- Handling tree events
 - Double click
 - Node select
 - Expand
- Roadmap UI element
- Chips
 - Creating chips
 - Creating Import
 - Creating Out port
 - Using Page Builder API
 - Using Page header
 - Using standard chip
 - Passing data to interface of chip
- Business Graphics
 - Creating business graphics
 - Binding Business graphics
 - Node
 - Binding
 - Comparison
 - Store Application
- Containers
 - Transparent container
 - Creating transparent container
 - Setting layout for transparent container
 - Adding UI elements to container
 - Adding UI elements together to container
 - Setting background color for transparent container
 - Setting width and height for container
 - Create container form option
 - Tray
 - Group container
 - Scrollable container
- **Business graphics**
 - Charts
 - Bar Chart

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- Pie Chart
- Line chart
- Forms
- Horizontal charts
- **Tab strip**
 - Tabstrip creation
 - Adding tabs to tabstrip
 - Changing tabstrip text
 - Adding tabstrip to container
 - Changing tab text dynamically
 - Showing views for tabs
 - Positioning of tabs
- **Layout properties**
 - Grid layout
 - Form layout
 - Row layout
 - Matrix layout
 - Layout head data
- **View container UI element**
 - Creating View container
 - Showing view of same component in view container
 - Showing view of another component in view container
 - Changing layout for view container
 - Addition of views in view container using WINDOW
- **Navigation**
 - Navigation between views
 - Creation of inbound and outbound plug
 - Firing of outbound plug for navigation
 - Connecting plugs for navigation in WINDOW
 - Defining navigation between views
 - Default plug concept
 - Cross-component navigation
 - RESUME plug
 - Passing parameter using plug between views

Internationalization

- **Showing text from Application Program dictionary**
 - Binding text from Application Program dictionary
 - Showing heading, long, medium and long texts
- **Showing text from OTR**
 - Introduction to online text repository

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- Attaching text from OTR
- Creating OTR text
- Changing text to OTR
- Changing text to OTR dynamically into fixed language
- **Showing text from Assistance class**
 - Introduction to assistance class
 - Object WD_ASSIST
 - Creating text elements in assistance class
 - Calling method to get text from assistance class
 - Other uses of assistance class

Messages

- **Introduction to controller API**
- **Introduction to Message API**
- **Getting message manager class object**
- **Calling message method**
- **Showing direct message**
- **Showing message from message class**
- **Showing attribute error message**
- **Error handling and highlighting of text boxes**
- **Handling of messages in DOBEFOREACTION method**

Component Reuse

- **Introduction to component reuse**
- **Interface controller and nodes**
- **External context mapping between used and usable component**
- **ALV Component**
 - Adding reusable component in component
 - Adding reference of INTERFACECONTROLLER of reuse component in controllers
 - Adding view container UI element
 - Using interface view in view container of used component
 - Creating proxy object
 - Creating interface controller object
 - External context mapping
 - Calling methods of ALV to
 - Change column width
 - Hide column
 - Show column
 - Showing icon in column
 - Changing color of column
 - Changing label of column
 - Showing image in column

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- ALV functions
 - Subscribing to events of ALV
 - Row select
 - Column click
 - Column select
 - On change of
- **OVS Component**
 - Object value selector
 - Dictionary search help
 - Freely programmed search help
 - Attaching own search help to fields
- **Select Options**
 - Creating range table
 - Adding of range table
 - Dynamic table creation
 - Handling user input
 - Selecting data using range input
 - Calling methods to default input
 - Calling methods to set functions to range

Dialog Boxes (Popups)

- Introduction to popup API
- Using controller api to get window manager
- Showing URL in new window
- Showing popup with text and buttons
- Showing reusable component in new window
- Showing window of same component as popup
- Popup action handling
- Type casting of popup api
- Displaying Interface View of Component Usage as Popup

Faceless component

Adaptation Techniques

- Introduction of adaption
- Type of adaption techniques
 - Configuration
 - Customization
 - Personalization
- Types of adaption
 - Implicit

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- Explicit
- Creation of component configuration
- Creation of application configuration
- Using application parameter
- Dynamic assignment of application configuration
- Static assignment of application configuration
- Customizer and customization
- Personalization

Dynamic Modifications at Runtime

- **Creating Context nodes dynamically**
 - Creation of context node
 - Dynamically setting the properties
 - Addition of attributes to dynamic context node
 - Allocating memory dynamically
 - Binding elements to dynamic context node
 - Removing node
- **Creating UI elements dynamically**
 - Obtaining ROOTUIELEMENTCONTAINER object
 - Introduction to UI element classes
 - Creation of UI element object
 - Setting layout property for UI element object
 - Adding UI element to ROOTUIELEMENTCONTAINER object
- **Attaching actions dynamically to UI element**

Enhancements in Webdynpro

- **Controller enhancement**
 - Pre-exit
 - Post-exit
 - Overwrite-exit
- **View Enhancement**
 - Adding new element
 - Removal of standard element
- **Class enhancement**

Floorplan Manager

- Object Instance Floorplan (OIF)
- Quick Activity Floorplan (QAF)
- Guided Activity Floorplan (GAF)
- Modifying IDR at runtime
- IDR and extended IDR
- Handling FPM actions

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