Course Outline

Apex 18c

Course Summary

Description

Oracle Application Express (APEX) is a low-code development platform that enables you to build stunning, scalable, secure apps, with world-class features, that can be deployed anywhere.

This course will teach you how to develop database-centric web applications quickly using Oracle Application Express.

Objectives

After taking this course, students will be able to:

- Create a database application for both desktop and mobile interfaces.
- Add various components to enhance an application.
- Create processes and validations within an application.
- Create shared components for an application.
- Implement security in an application.
- Manage application navigation in an application.
- Extend application.

Topics

- Course Overview
- Introducing Oracle Application Express
- Creating a Database Application
- Using and Creating Interactive Reports
- Creating Classic Reports, Wizard Reports, and Reports for Mobile Applications
- Creating Forms
- Working with Pages and Regions
- Adding Items and Buttons
- Understanding Session State
- Adding Page Processing
- Validating and Debugging Your Application
- Adding Shared Components That Aid Navigation
- Working with Themes, Templates, and Files
- Implementing Security
- Managing Application Navigation
- Extending Your Application
- Creating and Editing Charts
- Adding Calendars and Trees
- Using Dynamic Actions and Plug-Ins
- Using Application Express Printing
- Managing Application Feedback
- More Information about Application Development
- Developing Applications in Oracle Application Express for Oracle Database Cloud Service
- About Deploying an Application
- Oracle Database Release 18c New Features

Prerequisite

Required: Basic computer skills, internet access, basic analytic or programming skills.

Duration

Five Days
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Course Outline

I. Course Overview
   A. Order Management Database Application
   B. Course Environment
   C. Accessing the labs Directory

II. Introducing Oracle Application Express
   A. Oracle Application Express Overview
   B. Oracle Application Express Concepts
   C. Using Oracle Application Express
   D. Using Oracle Application Express in Oracle Database Cloud Service
   E. Using Oracle Application Express in Oracle

III. Creating a Database Application
   A. Application Builder Overview
   B. Application Builder Overview
   C. Introducing Database Applications
   D. Introducing Database Applications
   E. Creating a Database Application
   F. Creating a Database Application

IV. Using and Creating Interactive Reports
   A. Overview
   B. Using Interactive Reports Part 1
   C. Using Interactive Reports Part 2
   D. Using Interactive Reports
   E. Creating and Customizing an Interactive Report

V. Creating Classic Reports, Wizard Reports, and Reports for Mobile Applications
   A. Creating Classic Reports
   B. Creating Wizard Reports
   C. Creating List View for Mobile Applications

VI. Creating Forms
   A. Using Forms
   B. Creating Forms
   C. Modifying Forms
   D. Creating Forms in a Mobile Application

VII. Working with Pages and Regions
   A. Introducing Page Definition
   B. Working with Page Regions
   C. Working with Pages

VIII. Adding Items and Buttons
   A. Introducing Items
   B. Using Items
   C. Creating List of Value (LOV) Type Items
   D. Using Buttons

IX. Understanding Session State
   A. Understanding Session State in Oracle Application Express
   B. Using Session State in Oracle Application Express

X. Adding Page Processing
   A. Introducing Page Processing
   B. Including Computations
   C. Including Processes
   D. Including Validations
   E. Including Branches

XI. Validating and Debugging Your Application
   A. Using the Advisor
   B. Managing Your Attribute Dictionary
   C. Using the Debug Option

XII. Adding Shared Components That Aid Navigation
   A. Introducing Shared Components
   B. Creating Tabs
   C. Creating Lists
   D. Creating Breadcrumbs
   E. Creating a Navigation Bar

XIII. Working with Themes, Templates, and Files
   A. Using Themes
   B. Using Templates
   C. Using Files

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Course Outline (cont.)

XIV. Implementing Security
A. Securing an Application
B. Using Authentication Schemes
C. Using Authorization Schemes
D. Using Session State Protection

XV. Managing Application Navigation
A. Building a hierarchical list with images
B. Building a database driven navigation report
C. Building a site map
D. Enforcing authorization on your site map

XVI. Extending Your Application
A. Creating Data Load Wizard Pages
B. Creating an Upload and Download Page
C. Adding Binary Large Object (BLOB) Data to an Existing Application
D. Sending Email from an Application

XVII. Creating and Editing Charts
A. Creating and Using Charts
B. Reviewing Additional Charting Examples

XVIII. Adding Calendars and Trees
A. Using Calendars
B. Using Trees

XIX. Using Dynamic Actions and Plug-Ins
A. Using Dynamic Actions
B. Using Plug-Ins

XX. Using Application Express Printing
A. Understanding Application Express printing architecture
B. Customizing and Printing a Standard Report
C. Creating a Customized Report

XXI. Managing Application Feedback
A. Understanding Team Development
B. Reviewing the Progress of your Milestones and Features

XXII. More Information about Application Development
A. Create a Websheet Application
B. Manipulate and Administer a Websheet Application

XXIII. Developing Applications in Oracle Application Express for Oracle Database Cloud Service
A. Oracle Cloud Overview
B. Types of Services offered by Oracle Cloud
C. Creating a Database Cloud Service
D. Accessing the Database Cloud Service Oracle Application Express Environment
E. Adding Applications to a Database Cloud Service
F. Administering a Database Cloud Service

XXIV. About Deploying an Application
A. Overview
B. Creating a Packaged Application
C. Installing a Packaged Application

XXV. Oracle Database Release 18c New Features
A. Application Development
B. Availability
C. Big Data and Data Warehousing
D. Database Overall
E. Diagnosability
F. Performance
G. RAC and Grid
H. Security