

## Oracle Application Express Workshop II Ed 2 (24 hrs.)

This Oracle Application Express Workshop II Ed 2 training will build on the knowledge learned in the 5-day Oracle Application Express Workshop I course. You'll learn how to use collections, add dynamic actions, create and customize plug-ins and create and consume a RESTful Web Service in this course.

### Learn to:

This Oracle Application Express Workshop II Ed 2 training will build on the knowledge learned in the 5-day Oracle Application Express Workshop I course. You'll examine topics that including learning how to use collections, add dynamic actions, create and customize plug-ins, and create and consume a RESTful Web Service.

- Extend Your applications using collections, dynamic application and plug-ins.
- Create and use RESTful Web Services.
- Make your application accessible.
- Customize themes and templates.
- Establish a master application and corporate theme that many applications can use.
- Migrate an existing application to a new theme.
- Incorporate a jQueryUI ThemeRoller theme into your mobile application.
- Secure, deploy and maintain your applications.
- Optimize your application performance.

### Benefits to You:

By taking this course, you'll develop the ability to ensure that the APEX application is accessible. You'll be able to determine which theme to use based on the type of application you want to build (desktop, mobile or responsive) as well as how to customize the templates.

### Suggested Prerequisite

- Basic knowledge of SQL, PL/SQL, and HTML

### Required Prerequisite

- Oracle Application Express Workshop I Ed 2

### Audience

- Application Developers
- Database Administrators
- System Analysts
- Project Manager
- Forms Developer
- Business Intelligence Developer
- Web Administrator
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### Course Objectives:

- Create and use RESTful Web Services
- Customize themes and templates
- Create a master application and custom theme

- Migrate an existing application to a responsive theme
- Incorporate interactivity in your application
- Build tabs based on a static list
- Secure your application
- Deploy and maintain your applications
- Optimize your application performance
- Extend Your applications using collections, dynamic applications, and plug-ins

## Course Topics:

### Course Overview

- Course Environment: Products Installed
- Course Objectives
- Introducing Course Persona
- Lesson Schedule
- Accessing the Labs Directory
- Course Environment: Workspace Details

### Introducing Course Persona

- Workspace Administration
- What is a Packaged Application?
- Quick Review of What You Already Know
- Components of Team Development
- Additional Resources
- Packaged Application Used in this course
- Other Components
- Securing Database Applications

### Using Collections

- Create a collection on an interactive report
- What is a Collection?

### Extending Your Application: Dynamic Actions

- Adding Dynamic Actions

### Extending Your Application: Plug-ins

- Authentication/Authorization Plug-in Capability
- Using and Customizing the CSS Bar Chart Plug-In

### Incorporating Interactivity in Your Application

- Tooltip
- Add a procedure in AJAX to refresh a page region periodically
- Add buttons with conditions in the report page to display report based on the conditions
- Scrolling Region
- Configuring Oracle Application Express to send email

### Generating and Using Table APIs

- Add a Form to an Application that shows how to add the process that will insert or update the database using the Table API
- Modify the Table API
- What is a Table API?
- Generate a Table API

### Creating and Using RESTful Web Services

- What is a RESTful Web Service?
- An Example: RESTful Web Service
- Consuming a RESTful Web Service in an APEX Application
- Components of a RESTful Web Service

- Creating a new RESTful Web Service

### **Using Themes and Templates**

- Application Types: Desktop, Mobile, Responsive - Explain what they are and what criteria determines which application to create
- Include using CSS to customize the template
- Review the layout of a Page template
- Establishing a Master Application and a Corporate Theme
- Create and modify a theme
- Theme Overview: Which ones are for which type of Application
- Using Substitution Strings in Templates
- Utilize new page attributes - files/inline styles

### **Developing a New Theme for Your Application Using ThemeRoller**

- What is ThemeRoller?
- Create a theme using the ThemeRoller

### **Securing Your Application**

- SQL Injection
- Oracle Internet Directory
- Cross-Site Scripting
- Application Level Security
- Technical Architecture: Overview
- What Is a Directory?
- Authenticating Users by Using LDAP
- Browser Security

### **Deploying and Maintaining Your Application**

- Application Components
- Backups
- Things to consider

### **Optimizing Your APEX Application**

- Monitoring Application Performance
- Monitoring Activity
- Application Performance Considerations
- Managing Services
- Database Configuration Considerations

### **Globalization and Translation**

- Switching Languages
- Understanding Application Translation and Globalization Support
- Translating the Data the Application Uses
- Translating an Application
- Localization
- Specifying the Primary Language for an Application Loading a New Language