

Web Development Using Oracle9i

(5 Days)

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Web Development Using Oracle9i (CTI 219)

*Students will gain the knowledge and skills necessary to understand Oracle9i's Application Server (9i AS) and the tools and technologies available for creating and maintaining web pages using those technologies. The basic concepts of HTML, JavaScript, DHTML, XML, Java, servlets, JSPs and PSPs will be covered. SQL*Plus and iSQL*Plus will be used to interact with the database.*

Prerequisites: This course is for experienced application designers/developers and Web developers. Must have SQL and PL/SQL knowledge and at least one year of Web development experience.

Minimum software requirements: Microsoft Windows NT 4.0 or Windows 2000 or later. Oracle9i JDeveloper 9.0.3 or later. Oracle or equivalent relational database. Java-compatible browser.

Minimum hardware requirements: Pentium at 500 MHz, 256 Mb RAM; 500 Mb free hard disk space before installation. Classroom machines should be networked. Internet access.

Microsoft PowerPoint on instructor's workstation for presentation purposes.

Module 1: Creating Web Pages Using HTML

- Basic Tags
- Graphic Effects
- Lists and Tables
- Frames, Controls, and Stylesheets
- Applets

Module 2: Client-Side Programming Using JavaScript

- Uses of Client-Side Scripting
- The Document Object Model
- JavaScript Language Elements

Module 3: Server-Side Programming Using Java Server Pages

- Uses of Server-Side Scripting
- Communicating with the Client
- Server Objects
- Maintaining State
- JSP Lifecycle and Events

Module 4: Relational Database Processing

- Connecting to Databases Using JDBC
- Viewing and Updating Tables
- Connection Pooling
- Transaction Processing

Module 5: Servlets

- Uses of Servlets
- Relationship Between Servlets and JSPs
- Servlet API
- Communicating with the Client
- Session Tracking
- Servlet Lifecycle and Events

Module 6: Creating Batch and XML Messaging Clients for a Business Components Application

- Defining a Batch Client
- Using Different Service Methods from a Batch Client
- Using XML in the Context of JDeveloper
- Defining XML Messaging Clients

Module 7: Handling Business Components Transactions

- Defining a BC4J Transaction
- How Application Module and Connection Pooling Increase Performance
- Using Different Transaction Methods
- Locking Modes

Module 8: Packaging Business Services and Data Models

- Overview of Application Modules
- Components of an Application Module
- Nesting Application Modules
- Creating and Exposing Service Methods
- Modeling Relationship Types (Double Master, Multiple Details)
- Renaming Views and Associations

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Module 9: Extending and Substituting Business Components

- Customizing a BC4J Application
- Substituting Objects in an Application
- Adding Business Rules and Logic to an Existing Application

Module 10: Deploying Business Components Applications

- Introduction to EJBs
- Deployment Options for a BC4J Application
- Deploying a BC4J Application as an EJB
- Exporting Methods from View Objects and Application Modules
- Deploying an Application Module to Oracle9iAS Containers for J2EE
- Deploying an Application as a Web Application
- Using the Business Components Tester

Module 11: Using XML in JDeveloper

- XML Concepts and Components
- How XML Works in Oracle9i
- Use XML and XSQL to Access Data
- Use XML to Generate Web Pages

Module 12: Oracle Supplied Packages

- Concepts and Components
- The DBMS Package
- The UTL Package

Module 13: Developing Web Applications with PL/SQL

- Concepts and Components
- The PL/SQL Web Toolkit
- PL/SQL Server Pages