

Adv Java – Web Programming

- **Java Database Connectivity (JDBC)**
 - Overview of RDBMS
 - Introduction to Call Level Interface(CLI)
 - Introduction to JDBC
 - JDBC Architecture
 - Types of JDBC Drivers
 - Establishing a JDBC Connection
 - Using Statement
 - Using PreparedStatement
 - Using CallableStatement
 - Scrollable and Updatable ResultSet
 - Inserting & Fetching from BLOB Columns
 - Managing Transactions in JDBC
 - **New Features introduced in JDBC 3.0**
 - **Auto Increment Columns**
- **eXtensible Markup Language (XML)**
 - Introduction to XML
 - Document Object Model (DOM) using JAXP
 - Understanding DOM
 - Using DOM in Java
 - StAX in Java
 - Understanding StAX
 - Programming with StAX
- **Common Gateway Interface**
 - Introduction to CGI
 - Understanding Environment Variables
 - Disadvantages and Limitations of CGI
- **Java Servlets**
 - Servlet as J2EE Web Component
 - Servlet as an improved CGI
 - Servlet Fundamentals / API
 - What is a Web-Container
 - Servlet Life Cycle / Architecture
 - HTTP GET and POST Request Methods
 - Processing Html Forms
 - What is Name-Value pair
 - Content Types and MIME
 - Configuration of Web Application
 - Understanding the Deployment Descriptor (DD) / web.xml
 - Specifying the Welcome file list
 - Servlet URL Pattern Mapping
 - Init Parameters
 - State Management
 - Using HTTP Session
 - Using Cookies
 - Using Application
- **JavaServer Pages (JSP)**
 - JSP Architecture
 - JSP Standard / Implicit Objects
 - request
 - response
 - out
 - config
 - application
 - session
 - page
 - pageContext
 - exception
 - JSP Page Implementation Class
 - JSP Basics & Syntax
 - JSP Directive Tags
 - Page Directive
 - Include Directive
 - Taglib Directive
 - JSP Action Tags
 - Forward Action Tag
 - Include Action Tag
 - JSP Script related Tags
 - Scriptlet Tag
 - Expression Tag
 - Declaration Tag
 - Using Java Beans from JSP
 - UseBean Tag
 - setProperty Tag
 - getProperty Tag
 - JSP Custom Tag Library
 - JSP 2.0 Tag Files
 - JSP 2.0 Simple Tag
 - Empty Tag
 - Tag with Body Content
 - (JSP Fragment)
- **JavaBeans**
 - JavaBean Architecture
 - JavaBean Characteristics
 - Providing Properties & Methods
- **JSP Expression Language (EL)**
 - Syntax
 - Operators
 - Using different scope objects
 - Calling Functions from EL
- **JSP Standard Tag Library (JSTL)**
 - General Purpose Actions
 - Conditional Actions
 - Iterator Actions
- **Filters in Web Application**
 - Filter Basics
 - Filter Lifecycle
 - Filter Chaining
 - Filter Example
- **Web Application Security**
 - Introduction
 - Declarative Security
 - Programmatic Security
 - Roles
 - Authentication
 - Basic Authentication
 - Digest Authentication
 - Form Based Authentication
 - Standard Login Form
 - Security Constraints
 - Web Resource Collection
 - Authorization Constraint

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