

Advanced Java Training



Java

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J2SE (Java 2 Standard Edition)

Part 1: Java Basics

Introduction to JAVA – OOPs & its Implementation using JAVA Programs – Classes, Objects, Inheritance, Polymorphism, Abstraction, Encapsulation – Fundamentals of Java Programming: Keywords, Data Types & Programming Constructs – Sample Applications – Fundamental Classes: Package Overview, String, String Buffer, Math Classes, String Tokenizer, Constructors & Finalizers – Arrays – Exception Handling Techniques – Advanced I/O Streams: File, Byte Streams, Character Streams, Random Access File, Object Serialization

Part 2: Advanced Java

JDBC: Advantages, Database Connectivity Using SQL Server – Networking: Client & Server Sockets, Networking & I/O, Networking & Applet – RMI (Remote Method Invocation): Architecture, Registry, Server & Client Programs, Remote Interfaces, Objects & Methods – Multi Threading – AWT - Swings - Building Windows Based Applications Using Java

J2EE (Java 2 Enterprise Edition)

Part 1: J2EE Basics

J2EE Overview

Definition – Application Development Trends – J2EE API & Technologies – Component & Container Architecture – Development & Deployment Lifecycle – J2EE Development Roles – J2EE Applications

Java Script

Java Script Features – Data types – Functions – Classes – Prototype Methods – HTML Document Object Model – Event Handling – Accessing Form Elements – Form Validations

Servlets

Web Applications – Servlet Request & Response Model – Servlet Mapping – Servlet Lifecycle – Scope Objects – Processing Client Data – HTTP Structure – Response Header & Body – Error Handling – State Management in Servlets

Java Server Pages (JSP)

JSP Lifecycle and Phases – Directives – Scripting Elements – Comments – Actions – Implicit Objects – Java Beans – Accessing bean properties – Sharing beans – Retaining form state – Writing custom tags

EJB (Enterprise Java Beans)

Architecture – Home, Remote & Local Interfaces – Stateful & Stateless Session Beans – Entity beans – Persistence Fields – Containers and Bean managed Persistence (CMP,BMP) – Application & Web clients – Packing & Deploying EJB applications and Enterprise applications – EJB QL (Query Language) – Message Driven Beans

XML (Extensible Markup Language)

Role of XML in J2EE – Understanding XML – Generating XML Data – Designing XML Data structure – Creating DTD - XML Parsers

J2EE (Java 2 Enterprise Edition)

Part 2: Advanced J2EE

Struts

Model View controller (MVC) Design Pattern - Model Components - Action Forms, Action Classes - View Components - Forms and Form bean Interactions - Presentation techniques - Controller components - Actions Servlet & Action mapping implementation - Handling input validation & Business Logic exceptions

Hibernate

Introduction to Hibernate – Hibernate architecture and API – Object/Relational Mapping – Collection Mapping – Component Mapping – Hibernate Query Language (HQL) and Criteria Queries – Batch Processing and Native SQL – Caching Objects – Hibernate in web applications

Spring

Introduction to Spring - Spring Architecture - Dependency Injection - Aspect Oriented Programming - Model View Controller Framework - Inversion of Control Framework - Aspect Oriented Programming Framework - Data Access Framework - Transaction Management Framework - Remote Access Framework

AJAX

Introduction to AJAX - Requirements - AJAX states - Properties - Methods - Programs - JSP with AJAX - DB with AJAX - XML with AJAX - Using the XMLHttpRequest Object – Sample AJAX Web Applications

Project Work in Advanced Java

Development and Implementation of a real-time project using Advanced Java

Duration
45 Hours