

Techno India NJR Institute of Technology, Udaipur

Advance JAVA Technology

Training Module

Total Time: 2 Month

Collection Frame Work

- Introduction
- Util Package interfaces, List, Set, Map
- List Interface 7 Its Classes
- Set Interface & Its Classes
- Map Interface & Is Classes

AWT

- Introduction
- Components
- Event-Delegation-Model
- Listeners
- Layouts
- Individual Components Lable, Button, Check Box, Radio Button,
- Choice, List, Menu, Text Field, Text Area

SWING (JFC)

- Introduction Diff B/W AWT and SWING
- Components hierarchy
- Panes
- Individual Swings components J Label
- JButton, JTextField, JTextAres

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(Principal)

Introduction to Enterprise Edition

- Distributed Multitier Applications
- J2EE Containers
- Web Services Support
- Packaging Applications
- J2EE 1.4 APIs

Web Server and Application Server

- Tomcat-Introduction
- Overview, installation, Configuring Tomcat
- Basics of SQL queries
- SQL Joins

JDBC

- Introduction
- JDBC Architecture
- Types of Drivers
- Statement
- Result Set
- Read Only Result Set
- Updatable Result Set
- Forward Only Result Set
- Scrollable Result Set
- Prepared Statement

Servlets

- Introduction
- Web application Architecture

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- HTTP Protocol & HTTP Methods
- Web Server & Web Container
- Servlet Interface
- HTTPServlet
- GenericServlet
- Servlet Life Cycle
- Servlet Config
- Servlet Context
- Servlet Communication

Servlet-Browser Communication

- sendError
- setHeader
- sendRedirect

Web-Component Communication

- Forward
- Include

Session Tracking Mechanisms

- Http Session
- Cookies
- URL-Rewriting
- Hidden-Form Fields

JSP

- Introduction

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- Jsp LifeCycle
- Jsp Implicit Objects & Scopes
- Jsp Directives
 - o page
 - o include
 - o taglib

Jsp Scripting Elements

- declaratives
- scriptlets
- expressions

JSP Actions

- useBean tag
- setProperty tag
- getProperty tag
- include tag
- forward tag
- param tag
- plug-in tag
- params tag
- fallback tag
- directives tag
- scriptlet tag
- expression tag

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JDBC

- What is JDBC?
- JDBC Architecture
- Steps to create JDBC Application
- JDBC Driver Types & Connections

Java Servlets

- Introduction to Java Servlets
- Servlet Life Cycle
- Steps to create Servlet
- Session Tracking in Servlets

JSP

- Introduction to JSP
- Life Cycle of JSP
- JSP Scripting Elements

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