

Advance Java

Course Description

Java Database Connectivity (JDBC) Inception of JDBC:

- Introduction
- JDBC Architecture with key interfaces

Thin is the great middleman:

- Types of Drivers

Employ Java on data tanks:

- Oracle, MySQL, PostgreSQL databases
- ways of adding JARs to Eclipse

Make a statement and make an impact:

- Statement
- PreparedStatement
- CallableStatement

Different Avatars of output:

- ResultSet
- Read Only ResultSet
- Updatable ResultSet
- FoRookiesWorldard Only ResultSet
- Scrollable ResultSet

It is the nature of the self to manifest itself:

- Metadata

Swim out of your little pond:

- Connection Pooling
- Basic Connection Pooling
- Apache DBCP
- HikariCP
- C3P0



- Properties File in JDBC

Alone we can do so little; together we can do so much:

- Batch Processing

Validate a Transaction:

- ACID Properties

A knee-jerk reaction:

- Triggers

Load Data:

- ResourceBundle

Always a sweet deal:

- Transactions and Savepoint

Function Arsenal:

- Stored Procedures

Large Object Types:

- Handling Blob and Clob

JEE Introduction to JEE SERVLETS Business class flight to Jakarta:

- Introduction to Servlets
- Stand-Alone Applications V/s Enterprise Applications

Internet App:

- Web Application Architecture
- HTTP Protocol and HTTP Methods
- Web Server and Web Container

Design is intelligence made visible:

- Design Patterns for Web Application



- MVC – 1 (Page-Centric Architecture)
- MVC – 2 (Servlet-Centric Architecture)
- Static and Dynamic Response
- Download and Configure Dynamic-Web Project
- Manual Deployment (CATALINA_HOME)
- Eclipse Auto-deployment

First class service:

- Servlet Interface
- GenericServlet & HttpServlet
- doGet() and doPost()

Inception to termination:

- Servlet Life Cycle
- ServletConfig and ServletContext

Chain of helping hands:

- Servlet Chaining

Servlet-browser communication:

- sendError()
- setHeader()
- sendRedirect()

Web-component communication:

- foRookiesWorldard() and include()
- HttpServletResponse.sendRedirect() V/s RequestDispatcher foRookiesWorldard()
- Session Management

What you seek is seeking you:

- Session Tracking Mechanisms
- HttpSession
- Cookies
- URL-Rewriting
- Hidden-Form Fields

Take a selfie with the filters:

- Filters



- Listeners and Wrappers

Spyware, malware... beware:

- Web-Security

The right server for the right job:

- Deploying web applications in application servers
 - Apache Tomcat
 - Oracle WebLogic Server
 - JBoss / WildFly
 - GlassFish
- Server-based Connection Pooling

File sharing:

- File Uploading and File Downloading

JSP Architecture:

- Working of JSP Engine (JASPER)
- JSP Lifecycle
- JSP Directives
 - JSP Page Directive
 - JSP include Directive
 - JSP Taglib Directive

Scriptwriters of Java:

- JSP Scripting Elements
- Declarations
- Scriptlets
- Expressions

The pursuit of happiness is internal:

- JSP Implicit Objects

You're allowed to set boundaries:

- JSP Scopes
 - Page scopes
 - Request scopes



Lights, Camera, Action:

- JSP actions
- Standard Actions
- Custom Actions

Jakarta has a price tag:

- Tags in JSP

Bespoke tailoring:

- Custom Tags
- Exception Handling in JSP

JSTL Introduction to JSTL See the able, not the label:

- Different Tags in JSTL
- Core Tags
- Function Tags
- XML Tags
- SQL Tags
- Formatted Tags

Beauty without expression is Boring: Expression Language

- Introduction
- EL Implicit Objects
- EL Functions

Maven Tool

- Maven Build Cycle
- Archetype of Maven
- Importance of Project Object Model File (pom.xml)
- Integration of Maven with Eclipse
- Commands of Maven to Run
 - Stand-Alone Application
 - Web Application
- Integrating Maven with Embedded Server (Tomcat)

IDEs:



- Eclipse
- NetBeans
- IntelliJ