(CODING SYLLABUS)

ADV. JAVA LANGUAGE



Course Overview

Adv. Java is the part of Java programming language that is used for creating or developing a generalpurpose application. To develop general purpose applications. To develop online application and mobile application.

Duration: 45 Days

Job Prospects

The opportunities for Java career are abundant worldwide. There are different chances and an expansive degree in the wake of learning java. You can go for web improvement, you can go for Android, you can go for testing, you can go for mix level advancement.

Job Profiles

- Junior Developer
- Senior Developer
- Java Web Developer
- Java Android Developer

Course Content

Introduction to Java

- What is Language & History of Java
- Feature of Java

Basics of a Web application

- What is a web application?
- What is a web client and web server?
- How do client and server communicate?
- HTTP protocol basics
- HTML language basics
- What is a TCP/IP port, URL?
- Need for a Web Container

Web Container and Web Application Project Set up

- To set up Tomcat Container on a machine
- To set up a Servlets JSP project in Eclipse
- To configure dependency of Servlet JSP APIs
- Web application project structure

Servlets

- What are Servlets?
- What can they do? Why are they needed?
- How do Servlets look in code?
- HTTP Methods; GET, POST, PUT, DELETE, TRACE, OPTIONS
- GET/POST request; differences between the two
- Servlet Lifecycle
- Servlet Context and Servlet Config
- Forwarding and Redirection of requests

- Software Engineer
- Java EE developer
- Data Scientist

Session Management



- What is a session?
- Why is it required?
- How to get a session?
- Session information passing between client and server
- Session information passing mechanisms Cookies, Rewriting
- How to destroy a session

JSPs

- Scriptlets
- Expressions
- Declarations
- Significance of above elements and fitment into the JSP Lifecycle
- What are Directives in JSP?
- Page Directive
- Include Directives
- Taglib Directive

JSP Tag library

- JSP Standard Actions
- Expression Language
- JSTL basics and it's usage
- Need for Custom Tag Library
- Custom Tag Library implementation