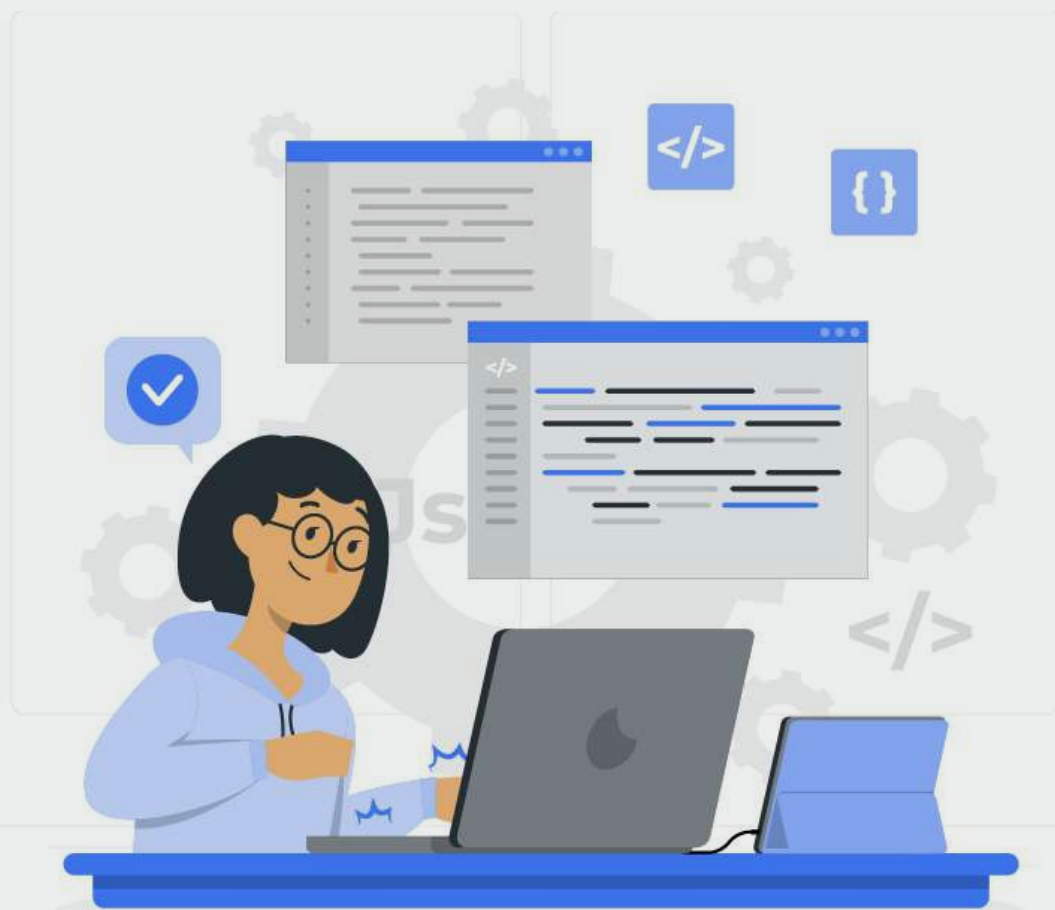


JAVA



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Core Java Syllabus

- Java Fundamentals
- Java Applications
- JVM Architecture
- How java is platform Independent
- Difference between JDK, JVM and JRE
- Data Types and Variables in Java
- Operators and Expressions
- Control Statements
- Loops in Java
- Arrays
- Command Line Arguments
- Java 8 and Java 9 Features
- OOP'S Concepts
- Overloading and Overriding
- Inheritance with Interface and Abstract Class
- Exception Handling
- Wrapper Classes
- Garbage Collections
- Inner Classes
- Packages
- String Class
- String Buffer and StringBuilder Class in Java
- Multithreading
- Collection and Generics
- File I/O
- Socket Programming
- AWT and Event Handling
- GUI Designing Swing
- JDBC



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Advance Java

1. Basics of Web Application

- What is Web Application
- Client and Server Architecture
- HTTP Protocol
- J2EEWeb Container and Web Server

2. Web Server Setup

- Tomcat Introduction
- Overview, Installation and Configuring Tomcat
- Setup Servlet Project in Eclipse
- Configure Servlet API

3. Servlets

- Introduction
- HTTP Protocol and HTTP Methods
- Servlet Interface
- GenericServlet Interface
- HTTPServlet Interface
- Servlet Life Cycle
- Servlet Config
- Servlet Context
- Session Tracking Mechanisms
- RequestDispatcher Forward and Include method
- Forwarding and Redirection of requests

4. Jsp

- Introduction to JSP
- JSP LifeCycle
- JSP Implicit Objects
- JSP Directives
- JSP Scripting Elements
- JSP Action Tags
- Custom Tags
- JSP with JDBC
- JSTL and Tag Library



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Frameworks

1. Hibernate Framework

- Introduction
- ORM Principle
- Hibernate Architecture
- Persistent Classes
- Setting up Hibernate project
- Configuring JAR and XML file
- Hibernate CRUD
- HQL
- Using SQL with Hibernate
- Mapping Collections
- Hibernate Caching
- Types of Caching mechanisms
- Criteria Queries

2. Spring Framework

- What is Spring
- Setting up Spring Project
- Core Spring
- Dependency Injection
- Spring Bean Factory
- Spring Application Context
- Spring MVC
- Spring ORM
- Spring DAO

3. Spring Boot Framework

- Spring Boot Introduction
- Spring Boot Architecture
- Spring Initializr
- Download and Install STS IDE
- Spring Boot CLI
- Spring Tool Suite
- Annotations
- Spring Boot View
- Spring Boot with Database
- Spring Boot Caching
- Web Services : Rest Api



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