

Full Stack Java Developer Pune



Full Stack Java Developer

Syllabus

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SYLLABUS

1. WEB DESIGN

- 1.1. HTML 5
- 1.2. CSS 3
- 1.3. JavaScript
- 1.4. Bootstrap
- 1.5. Website Go Live

2. CORE JAVA

- 2.1. Introduction To Java
- 2.2. Why Java
- 2.3. JVM
- 2.4. Object Oriented Programming Concepts
 - 1. Abstraction
 - 2. Encapsulation
 - 3. Polymorphism
 - 4. Inheritance
- 2.5. Class, Objects, Data Types
- 2.6. Java Coding Standards
- 2.7. Package – Creating package, naming package
- 2.8. Java Keywords
- 2.9. Access Specifiers – Public, Private, Protected, Default
- 2.10. Static Concept – Block, Variable, Method, Class
- 2.11. Control Statement – If, If...else, Nested if...else and Switch
- 2.12. Flow Statement- for, while, do..while
- 2.13. Constructor- Default, Parameterized
- 2.14. Inheritance
- 2.15. Extends, super and this keyword
- 2.16. Method Overloading, Method Overriding
- 2.17. Interface
- 2.18. Abstract Class
- 2.19. Garbage Collection
- 2.20. Serialization
- 2.21. Exception Handling
- 2.22. Exception Handling- try, catch, throw, throws, finally
- 2.23. String
- 2.24. String Buffer
- 2.25. Collection
- 2.26. List
 - 1. Array List



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- 2. Linked List
- 2.29. Set
 - 1. Hash Set
 - 2. Tree Set
- 2.30. Map
 - 1. Hash Map
 - 2. Tree Map
- 2.31. Enums
- 2.32. Date Concept
- 2.33. Thread
 - 1. Concept, Lifecycle
 - 2. Extends Thread
 - 3. Implement Runnable Interface
 - 4. Thread Priorities
 - 1. Synchronization
 - 2. Object Locking
- 2.35. JDK 1.8.0 New Features with Hands-on
- 2.36. Programming practices, Concepts & Interview Preparation

3. J2EE

- 3.1. JDBC
 - 1. JDBC Introduction
 - 2. JDBC Architecture
 - 3. Database Overview
 - 4. JDBC Basics
 - 5. My SQL
 - 6. Create Database
 - 7. Create Table
 - 8. Insert, Update, Delete
 - 9. Truncate
 - 10. SQL Join

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- 11. Aggregate Function
 - 1. MIN
 - 2. MAX
 - 3. AVG
 - 4. SUM
 - 5. COUNT
- 12. Java Application Using JDBC Connectivity
- 13. Handling SQL Exceptions
- 14. ResultSet
- 15. Connection

16. Statement
17. Prepared Statement
18. Collable Statement
19. CRUD Application

3.2. Servlet

1. Servlet Basics
2. Need of Server Side Programming
3. Servlet Life Cycle
 - 1 Init()
 - 2 Service()
 - 2.1 doGet()
 - 2.2 doPost()
 - 3 Destroy()
4. Servlet Hello World Application
5. Web.xml Structure
6. Servlet Directives- include(), forward(), sendRedirect()
7. HttpServletRequest, HttpServletResponse
8. Servlet, HTML 5, MySQL, Tomcat using Real Time Login Application

3.3. JSP

1. JSP Basics
2. Creating dynamic Web content with JSP
3. Scriptlet
4. Declaration
5. Servlet, JSP, MySQL, Tomcat Login Application
6. Servlet, JSP, MySQL, Tomcat CRUD Application

3.4. Programming practices, Concept & Interview Preparation.

4. FRAMEWORK

4.1. Hibernate

1. Hibernate Introduction
2. Hibernate Basics
3. Hibernate with HBM
4. Hibernate with Annotation
5. Hibernate CRUD
6. Hibernate Association Mapping
 1. One to One Mapping
 2. One to Many Mapping
 3. Many to One Mapping
 4. Many to Many Mapping
7. Hibernate Aggregation Projection
8. Hibernate Projection
9. Hibernate Application with Mysql DB- CRUD

- 10. Hibernate Application with Mysql DB, JSP-User Interface- CRUD
- 11. Programming practices, Concept & Interview Preparation.

4.2. Spring

- 1. Spring Introduction
- 2. Spring Basics
- 3. Inversion of Control
- 4. Dependency Injection
- 5. Beans Scope
 - 5.1 Singleton
 - 5.2 Prototype
 - 5.3 Request
 - 5.4 Session
 - 5.5 Global-Session
- 6. Auto wiring
- 7. Spring Annotations
- 8. AOP
- 9. Spring MVC
- 10. Spring Security Implementation
- 11. Spring, Hibernate, Mysql, Maven- CRUD Operation
- 12. Java, Spring, Spring Security, Algorithm, Hibernate, Maven, Mysql Integration Application
 - 1. Project Modules-
 - 1. Customer Login
 - 2. Add Customer
 - 3. Edit Customer Information
 - 4. Delete Customer
 - 5. View Customer List
 - 6. Roles
 - 7. Admin Role
 - 8. DBA Role
 - 9. User Role
 - 10. Password Encryption by using Spring Security Algorithm
 - 11. Remember Me Functionality

4.3. Spring Boot

- 1. Spring Boot Introduction
- 2. Spring Boot Basics
- 3. Spring Boot with RESTful Service
- 4. Spring Boot, Spring Security – RESTful Web Service with Database Authentication

5. WEB SERVICES

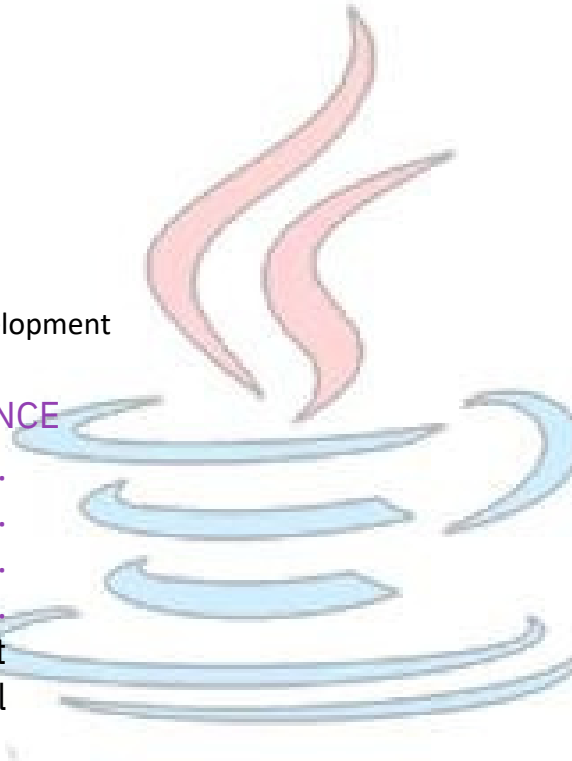
- 5.1. SOAP Web Service
- 5.2. RESTful Web Service

6. INDUSTRIAL ADVANCE CONCEPTS

- 6.1. SVN
- 6.2. Jenkin
- 6.3. JIRA
- 6.4. Perforce
- 6.5. GIT
- 6.6. Maven
- 6.7. JUnit
- 6.8. JSON
- 6.9. XML
- 6.10. POSTMAN
- 6.11. Micro Services
- 6.12. Research and Development

7. INDUSTRIAL ADVANCE

- 1. JDK 1.8.0
- 2. Eclipse
- 3. Tomcat
- 4. MySQL
- 5. SQLYog
- 6. Maven
- 7. Sublime
- 8. HTTracker
- 9. Bracket
- 10. Atom
- 11. Visual Studio Code



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13. Team Viewer

8. INTERVIEW QUESTIONS & PREPARATIONS

- 7.1. Programming practices, Concepts & Interview Preparation with live project.

9. React

Introduction to React

Lesson 1. What is React?

Lesson 2. Why React?

Lesson 3. React version history

Lesson 4. React 16 vs React 15

Lesson 5. Just React - Hello World

Lesson 6. Using create-react-app

Lesson 7. Anatomy of react project Lesson

8. Running the app Lesson

9. Debugging first react app

Components

Lesson 1. Significance of component architecture

Lesson 2. Types of components - Functional, Class based, Pure

Lesson 3. Component Composition

State & Props

Lesson 1. What is state and its significance

Lesson 2. Read state and set state

Lesson 3. Passing data to component using props

Lesson 4. Validating props using propTypes

Lesson 5. Supplying default values to props using

