

Full Stack Java Developer- Industrial Java Training



Full Stack Java Developer

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**Full Stack Java Developer,
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1. WEB DESIGN

- 1.1. HTML 5
- 1.2. CSS 3
- 1.3. JavaScript
- 1.4. Bootstrap
- 1.5. Payment Gateway Integration
- 1.6. Domain and Hosting
- 1.7. Website Deployment and Go Live

2. CORE JAVA

- 2.1. Introduction To Java
- 2.2. Why Java
- 2.3. JVM
- 2.4. Class, Objects, Data Types
- 2.5. Object Oriented Programming Concepts
 1. Abstraction
 2. Encapsulation
 3. Polymorphism
 4. Inheritance
- 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 Case
- 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. String Builder
- 2.26. Collection Framework
 - Collection Basics
 - Iterator Interface
 1. List
 - A] Array List
 - B] Linked List

- 2. Set
 - A] Hash Set
 - B] Tree Set
- 3. Map
 - A] Hash Map
 - B] Tree Map
- 2.27. Collection Framework Advance Concepts
 - 1. Comparable Interface
 - 2. Comparator Interface
- 2.28. Java Enum
- 2.29. Date Concept
- 2.30. File Handling Concept
 - 1. File Handling Basics
 - 2. Create/Write File
 - 3. Read File
 - 4. Delete File
- 2.31. Thread
 - 1. Concept, Lifecycle
 - 2. Extends Thread
 - 3. Implement Runnable Interface
 - 4. Thread Priorities
- 2.32. Multithreading
- 2.33. Thread Synchronization
 - 1. Synchronization
 - 2. Object Locking
 - 3. Inter Thread Communication
- 2.34. JDK 1.8.0 New Features with Hands-on
 - 1. Lambda Expression
 - 2. Functional Interface
 - 3. Default Method in Interface
 - 4. Static Method in Interface
 - 5. Method References
 - 6. Date Time API
 - 7. Stream API
 - 8. Collectors
 - 9. For each Loop
 - 10. String Joiner Class
 - 11. Parallel Sort
- 2.35. 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

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10. SQL Join

- Inner Join
- Left Outer Join
- Right Outer Join
- Full Outer Join

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. JDBC 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(), sendRedirective()

7. HttpServletRequest, HttpServletResponse in Servlet

8. Servlet and JDBC Integration

9. 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. Spring 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 Hello World Application
4. Spring Boot Devtool Dependency

5. Spring Boot with RESTful Service
6. Spring Boot, Spring Security – RESTful Web Service with Database Authentication
7. Spring Boot, Hibernate with RESTful Web Service
8. Spring Boot, Spring Data with RESTful Web Service
9. Spring Boot, Hibernate CRUD Application
10. Spring Boot, Spring Data CRUD Application
11. Spring Boot, ORM CRUD with Project Lombok

5. WEB SERVICES

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

6. MICROSERVICES

- 6.1. Microservices Introduction
- 6.2. Microservices Architecture
- 6.3. Microservices Project Structure
- 6.4. Microservices Frameworks
- 6.5. Spring Boot With Microservices Basics
- 6.6. Spring Boot, Hibernate, Maven, MySQL CRUD Application- POSTMAN API
- 6.7. Spring Boot, Spring Data, Maven, MySQL CRUD Application- POSTMAN API
- 6.8. Spring Boot, ORM, Microservices with Project Lombok
- 6.9. Spring Boot, Spring Data[JdbcTemplate], Microservices CRUD with Project Lombok

7. React JS

- 7.1. React JS Basics
- 7.2. React JS Features
- 7.3. React JS Setup and Hello World Application
- 7.4. React JS JSX
- 7.5. React JS Component
- 7.6. React JS State
- 7.7. React JS Props
- 7.8. React JS Constructor
- 7.9. React JS Lifecycle
- 7.10. React JS Events
- 7.11. React JS Router
- 7.12. React JS Forms
- 7.13. React JS Tables
- 7.14. React JS Portals
- 7.15. React JS ES6
- 7.16. React JS CSS
- 7.17. React JS and Back End Integration
- 7.18. React JS Using Back End CRUD Application
- 7.19. React JS, JDK 1.8, Spring Boot, Hibernate, Maven, MySQL, Microservices, Project Lombok-
Project Implementation



8. INDUSTRIAL ADVANCE CONCEPTS

- 6.1. SVN
- 6.2. Jenkin
- 6.3. JIRA
- 6.4. Postman API Testing Tool

- 6.5. GIT
- 6.6. Maven
- 6.7. JUnit
- 6.8. JSON
- 6.9. XML

9. INDUSTRIAL Softwares

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

10. INTERVIEW QUESTIONS & PREPARATIONS

- Developer Life, Programming practices, Concepts & Interview Preparation.

10+ Industrial Projects with JDK 1.8

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