

Java Full Stack Web Developer. Complete Program

1. WEB DESIGN

- 1.1. HTML 5
- 1.2. CSS 3
- 1.3. JavaScript
- 1.4. Bootstrap

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
 - 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
- 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 Hello World Application
- 4. Web.xml Structure
- 5. Servlet Directives- include(), forward(), sendRedirictive()
- 6. HttpServletRequest, HttpServletResponse in Servlet
- 7. Servlet and JDBC Integration
- 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. Scriplet

- 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 AOC
- 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

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 ΔPI
- 6.8. Spring Boot, ORM, Microservices with Project Lombok
- 6.9. Spring Boot, Spring Data[JDBCTemplate], Microservices CRUD with Project Lombok