

SYLLABUS

1. CORE JAVA

- 1.1. Introduction To Java
- 1.2. Java History
- 1.3. Why Java
- 1.4. Features of Java
- 1.5. Environment Setup
- 1.6. Hello World Application
- 1.7. Java Program Internal
- 1.8. JDK, JRE, JVM
- 1.9. JVM- Java Virtual Machine
- 1.10. Class, Objects, Methods, Data Types
- 1.11. Variables
- 1.12. Type Casting
- 1.13. Operators
- 1.14. Java Comments
- 1.15. Object Oriented Programming Concepts
 - 1. Abstraction
 - 2. Encapsulation
 - 3. Polymorphism
 - 4. Inheritance
- 1.16. Java Coding Standards
- 1.17. Package Creating package, naming package
- 1.18. Java Keywords
- 1.19. Access Specifiers Public, Private, Protected, Default
- 1.20. Static Concept Block, Variable, Method, Class
- 1.21. Final Concept- Variable, Method, Class
- 1.22. Scanner Class
- 1.23. Control Statement If, If...else, Nested if...else and Switch Case
- 1.24. Java Break Statement
- 1.25. Java Continue Statement
- 1.26. Flow Statement- for, while, do..while
- 1.27. Constructor- Default, Parameterized
- 1.28. Inheritance
- 1.29. Extends, super and this keyword
- 1.30. Method Overloading, Method Overriding
- 1.31. Interface



- 1.32. Abstract Class
- 1.33. Abstract Class vs Interface
- 1.34. Garbage Collection
- 1.35. Marker Interface
- 1.36. Serialization
- 1.37. Transient
- 1.38. Java instanceof
- 1.39. Instance initializer block
- 1.40. Exception Handling
- 1.41. Exception Handling- try, catch, throw, throws, finally
- 1.42. String Concept
 - String Basics
 - String Methods
- 1.43. String Buffer
- 1.44. String Builder
- 1.45. Custom Immutable Class
- 1.46. Java Arrays
- 1.47. Collection Framework
 - Collection Basics
 - Iterator Interface
 - Methods of Collection Interface
 - 1. List
 - A] Array List
 - B] Linked List
 - Cl Vector
 - 2. Set
 - Al Hash Set
 - B] Tree Set
 - 3. Map
 - A] Hash Map
 - B] Tree Map
 - C] Hashtable
- 1.48. Collection Framework Advance Concepts
 - 1. Comparable Interface
 - 2. Comparator Interface
 - 3. Collections class
 - 4. Differentiate Comparable and Comparator
 - 5. LinkedHashSet
 - 6. LinkedHashMap
 - 7. ConcurrentHashMap
 - 8. Fail-Fast Iterator
 - 9. Fail-Safe Iterator
 - 10. Collection with Stream API

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- 1.49. Java Enum
- 1.50. Date Concept
- 1.51. File Handling Concept
 - 1. File Handling Basics
 - 2. Create Folder
 - 3. Create File-.txt..pdf, .xlsx, .docs, etc.
 - 4. Write File
 - 5. Read File
 - 6. Delete File
- 1.52. Thread
 - 1. Thread Concept
 - 2. Thread Lifecycle
 - 3. Extends Thread
 - 4. Implement Runnable Interface
 - **5.** Thread Priorities
 - 6. Thread Methods
- 1.53. Multithreading
- 1.54. Thread Synchronization
 - 1. Synchronization
 - 2. Object Locking
 - 3. Inter Thread Communication
- 1.55. Volatile Keyword in Java
- 1.56. 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 in details[All Advanced concepts as per Industry Practices]
 - 8. Collectors
 - 9. For each Loop
 - 10. **String Joiner Class**
 - Parallel Sort 11.
- 12. Optional Class
 1.57. JDK 11 New Features with Hands-on
- 1.58. JDK 17 New Features with Hands-on
- 1.59. Core Java Bank Application
 - 1. Deposit
 - 2. Withdraw
 - 3. Transfer
 - 4. OTP Functionality
- 1.60. Java Mail API- Realtime Live Implementation

Programming practices, Concepts & Interview Preparation



2. **J2EE**

2.1 JDBC

- 1. JDBC Introduction
- 2. JDBC Architecture
- 3. Database Overview
- 4. MySQL Database Benefits
- 5. SQL Queries
- 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. SQL HAVING Clause
- 13. GROUP BY
- 14. ORDER BY
- 15. SQL Aliases
- 16. SQL LIKE Operator
- 17. SQL IN
- 18. SQL NOT IN
- 19. SQL Between
- 20. SQL LIMIT
- 21. SQL Stored Procedures
- 22. Java Application Using JDBC Connectivity
- 23. Handling SQL Exceptions
- 24. DriverManager
- 25. ResultSet
- 26. Connection
- 27. SQL Statement
- 28. JDBC Connectivity Steps
- 29. Store and Read Image in SQL
- 30. SQL Queries using SQLYog/Workbench and JDBC CRUD

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2.2 Servlet

- 2.2.1 Servlet Basics
- 2.2.2 Web Terminology
- 2.2.3 Need of Server-Side Programming
- 2.2.4 Servlet Life Cycle
 - 1. init()
 - 2. service
 - doGet()
 - doPost()
 - 3. destroy()
- 2.2.5 Servlet Hello World Application
- 2.2.6 Deployment Descriptor/Web.xml Structure
- 2.2.7 Servlets Annotations
- 22.8 Servlet Directives-include(), forword(), sendRedirictive()
- 2.2.9 HttpServletRequest, HttpServletResponse in Servlet
- 2.2.10 Servlet and JDBC Integration
- 2.2.11 Servlets MySQL Database Access
- 2.2.12 Servlets Page Redirection
- 2.2.13 Servlet, HTML 5, MySQL-JDBC, Apache Tomcat using Real Time SignUp/SignIn Application
- 22.14 Servlet, JSP, MySQL-JDBC, Apache Tomcat using Custom CRUD Application
- 22.15 Servlet, JSP, Java Mail API Live Implementation
- 2.2.16 Servlet, JSP, MySQL- JDBC, Apache Tomcat using Custom HRM Project
- 22.17 Servlet, JSP, MySQL- JDBC, Apache Tomcat using Custom CRM Project

2.1 **JSP**

- 2.1.1 JSP Basics
- 2.1.2 JSP Overview
- 2.1.3 Scriplet Tag
- 2.1.4 Declaration Tag
- 2.1.5 JSTL- JSP Standard Tag Library
- 2.1.6 JSP Registration Form JDBC- MySQL, Apache Tomcat
- 2.1.7 Servlet, JSP, MySQL- JDBC, Apache Tomcat SignUp/SignIn Application
- 2.1.8 Servlet, JSP, MySQL- JDBC, Apache Tomcat To-Do Task Application
- 2.1.9 Servlet, JSP, MySQL- JDBC, Apache Tomcat using Custom CRUD Application with JDK Advanced features
- 2.1.10 Servlet, JSP, MySQL- JDBC, Apache Tomcat using Custom CRUD Application with different Date Patterns and time zones as per Industrial Practices
- 2.1.11 Servlet, JSP, MySQL- JDBC, Apache Tomcat Using Advanced Product Management Project
- 2.1.12 Servlets, JSP Advanced Debugging
- 2.1.13 Servlet, JSP, MySQL- JDBC, Tomcat Java 8 Features Live Implementations
- 2.1.14 Servlet, JSP, MySQL- JDBC, Apache Tomcat Live Project

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3. FRAMEWORK

3.1. Hibernate

- 1. Hibernate Introduction
- 2. Hibernate Basics
- 3. Hibernate Architecture
- 4. ORM Overview
- 5. Hibernate Caching
- 6. Hibernate Session
- 7. Hibernate SessionFactory
- 8. Hibernate Configuration
- 9. Hibernate Configuration Offline
- 10. Hibernate with HBM
- 11. Hibernate with Annotation
- 12. Hibernate Validator
- 13. Hibernate CRUD Application
- 14. Hibernate Association Mapping
 - 1. One to One Mapping
 - 2. One to Many Mapping
 - 3. Many to One Mapping
 - 4. Many to Many Mapping
- 15. Hibernate Aggregation
- 16. Hibernate Named Queries
- 17. Hibernate Native SQL
- 18. HQL-Hibernate Query Language
- 19. Hibernate HCQL- Criteria Query Language
- 20. Diff. save(), saveOrUpdate(), update(), persist() and merge()
- 21. Diff. get() and load()
- 22. Hibernate vs. JPA
- 23. Hibernate Application with MySQL DB, Servlet, JSP-User Interface-CRUD
- 24. Hibernate, MySQL, Servlet, JSP, Apache Tomcat Login Application
- 25. Hibernate, MySQL, Servlet, JSP, Apache Tomcat Sign Up | Sign In Application
- 26. Hibernate Application with MySQL DB, Servlet, JSP-User Interface-different Date Patterns
- 27. Hibernate, MySQL, Servlet, JSP, Apache Tomcat Notes Taker Application
- 28. Hibernate, MySQL, Servlet, JSP, Apache Tomcat User Management Application
- 29. Hibernate, MySQL, Servlet, JSP, Apache Tomcat with Java 8 features Live Implementations
- 30. Hibernate, MySQL, Servlet, JSP, Apache Tomcat Advanced Custom Project Implementation
- 31. Hibernate advanced practices Research & Development

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3.2. Spring Framework

- 1. Spring Framework Introduction
- 2. Spring Basics
- 3. Spring Framework Features
- 4. Inversion of Control
- 5. Dependency Injection
- 6. Spring Beans LifeCycle
- 7. Beans Scope
 - 6.1 Singleton
 - 6.2 Prototype
 - 6.3 Request
 - 6.4 Session
 - 6.5 Global-Session
- 8. Auto wiring
- 9. Spring Framework Annotations

3.3. Spring MVC

- 1. Spring MVC Basics
- 2. Spring MVC Architecture
- 3. Spring MVC Workflow
- 4. Spring MVC Annotations
- 5. Spring MVC Hello World Application
- 6. Spring MVC Restful Web Services Basics
- 7. Spring MVC without Maven
- 8. Apache Maven Basics
- 9. Spring MVC with Maven
- 10. Spring MVC WAR File Creation and Deployment Steps
- 11. Spring MVC WAR Application Deployment on External Tomcat
- 12. Spring MVC Application Deployment with Loggers
- 13. Spring MVC, Hibernate, Mysql, Apache Maven, Apache Tomcat- CRUD Operation
- 14. Java, Spring MVC, Spring Security, Algorithm, Hibernate, Maven, MySQL Integration Application Modules-
 - 1. Customer SignUp
 - 2. Customer SignIn
 - 3. Add Customer Details
 - 4. View Customer List
 - 5. Edit Customer Information
 - 6. Delete Customer
 - 7. Add Roles- Admin, DBA, User
 - 8. Password Encryption by using Spring Security Algorithm
 - 9. Remember Me Functionality
 - 10. Timeout Functionality
 - 11. Deploy Application on External Tomcat Server

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3.4. Spring Boot

- 1. Spring Boot Introduction
- 2. Why Spring Boot
- 3. Spring Boot Features
- 4. Creating Project- Spring Initializer
- 5. Spring Boot Hello World Application
- 6. Spring Boot Annotations
- 7. Spring Boot Devtool Dependency-Live Reload Application
- 8. Spring Boot Actuator
- 9. Spring Boot Code Structure
- 10. Spring Boot Tomcat Custom Port Number
- 11. Spring Boot with Restful Service
- 12. Spring Boot with Logger
- 13. Deploy Spring Boot Applications on External Tomcat Server
- 14. Spring Boot Common Application Properties (application.properties)
- 15. Spring Boot with Hibernate Integration
 - 16. Spring Boot with Hibernate CRUD Application
 - 17. Spring Boot with Hibernate, Project Lombok Implementation
 - 18. Spring Boot with Hibernate Java 8 Features Live Implementation
 - 19. Spring Boot with Spring Data Integration
 - 20. Spring Boot with Spring Data JPA CRUD Application
 - 21. Spring Boot with Spring Data JPA Java 8 Features Live Implementation
 - 22. Spring Boot with JDBCTemplate Integration
 - 23. Spring Boot with JDBCTemplate Java 8 Features Live Implementation
 - 24. Spring Boot with XML Payload using Postman API
 - 25. Spring Boot with JSON Payload using Postman API
 - 26. Spring Boot with All HTTP Methods and HTTP Status Code Hands on practices
 - 27. Configuring Swagger UI in Spring Boot Application
 - 28. Spring Boot Global Custom Validations
 - 29. Spring Boot Global Custom Exception Handling
 - 30. Spring Boot Code Debug Practices in Eclipse and IntelliJ Idea
 - 31. Spring Boot Application connectivity with Multiple Databases
 - 32. Spring Boot, Java Email API Live Implementation
 - 33. Spring Boot, Payment Gateway Live Implementation
 - 34. Spring Boot Local Network Chat Application
 - 35. Spring Boot QR Code Generator Hands on Session
 - 36. Spring Boot with OpenAI ChatGPT API Integration
 - 37. Spring Boot with Data JPA HRM Application
 - 38. Spring Boot with Data JPA GST Billing Application
 - 39. Spring Boot with Data JPA Ecommerce Application
 - 40. Spring Boot with Data JPA Finance- Banking Application
 - 41. Spring Boot Advanced Research and Development with Latest Release as per Industry Practices



3.5. Spring Security

- 1. Spring Security Basics
- 2. Spring Security Features
- 3. Spring Security Authentication
- 4. Spring Security Encryption
- 5. Password Encryption by using Spring Security
- 6. Spring Security Login Form
- 7. Spring Security Authentication
- 8. Spring Security Maven Dependency
- 9. Spring Security CRUD- Signup and Login Application
- 10. Spring Security OAuth2 RealTime Implementation
- 11. Spring Boot End Points Security
- 12. Spring Boot, Spring Security- Restful Web Services with Advanced Authentication
- 13. Single Sign-On with Spring Boot & Okta | OAuth 2.0
- 14. Spring Boot with JWT Token base authentication
- 15. Spring Boot with Spring Security using BCrypt Algorithm Role base authorization
- 16. Spring Security Advanced Research and Development

3.6. Spring Data- JPA

- 1. Spring Data JPA Basics
- 2. Spring Boot JPA vs Hibernate
- 3. Spring Data JPA Architecture
- 4. Spring Data JPA application.properties file
- 5. JPA Repository
- 6. Spring Boot with Data JPA Caching Mechanism in Service Layer
- 7. CRUD Repository
- 8. Data JPA Custom methods
- 9. Spring Boot with Spring Data JPA CRUD using Postman API
- 10. Spring Boot with Spring Data JPA Transaction Management
- 11. Spring Boot with Data JPA HRM Application using Swagger UI

3.7. Spring- JDBCTemplate

- 1. JDBCTemplate Introduction
- 2. Builder Annotation
- 3. Spring Boot with JDBCTemplate using Swagger UI
- 4. Spring Boot with JDBCTemplate CRUD Application
- 5. Spring Boot with JDBCTemplate SignUp | SignIn Application
- 6. Spring Boot with JDBCTemplate HRM Application Swagger UI
- 7. Spring Boot with JDBCTemplate Java 8 Features Live Implementation



3.8. JUnit- Mockito Framework

- 1. What is Unit testing
- 2.What is JUnit
- 3.JUnit Rules
- 4.JUnit Arithmetic
- 5. Mockito Introduction
- 6. Mockito Annotations
- 7. Mockito Setup
- 8. What is Mocking
- 9. Need for mocking
- 10. Methods of Mockito
- 11. Mockito mock() method
- 12. Mockito when() method
- 13. Mockito verify() method
- 14. Mockito doNothing() method
- 15. Mockito times() method
- 16. PowerMock
- 17. Mockito Spy
- 18. JUnit Mockito Hibernate Application
- 19. JUnit Mockito JPA Application
- 20. JUnit Mockito JDBCTemplate Application
- 21. JUnit Mockito Java 8 Features Live Implementation
- 22. JUnit Mockito for HRM Application
- 23. JUnit Mockito for GST Billing Application
- 24. JUnit Mockito for Ecommerce Application
- 25. JUnit Mockito Advanced Research and Development

4. MongoDB

- 4.1 MongoDB Introduction
- 4.2 MongoDB Features
- 4.3 MongoDB Database
- 4.4 MongoDB Collection
- 4.5 Spring Boot with MongoDB Integration
- 4.6 Spring Boot with MongoDB CRUD Application
- 4.7 Spring Boot with MongoDB API Creation
- 4.8 Spring Boot with MongoDB SignUp | SignIn
- 4.9 Spring Boot with MongoDB HRM Application
- 4.10 Spring Boot with MongoDB Ecommerce Application
- 4.11 Spring Boot with MongoDB Java 8 Features Live Implementation

5. WEB SERVICES

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

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6. Design Pattern

6.1 Creational design patterns

- 1. Singleton Pattern
- 2. Factory Pattern
- 3. Abstract Factory Pattern
- 4. Prototype Pattern
- 5. Builder Pattern
- 6. Object Pool Pattern

6.2 Structural design patterns

- 1. Adapter Pattern
- 2. Bridge Pattern
- 3. Composite Pattern
- 4. Decorator Pattern
- 5. Facade Pattern
- 6. Flyweight Pattern
- 7. proxy Pattern

6.3 Behavioral Design Patterns

- 1. Iterator Pattern
- 2. Interpreter Pattern
- 3. Mediator Pattern
- 4. Memento Pattern
- 5. Observer Pattern
- 6. State Pattern
- 7. Strategy Pattern
- 8. Template Pattern
- 9. Visitor Pattern

6.4 Microservices Design Patter

- 1. CQRS- Command and Query Responsibility Segregation
- 2. SAGA

7. AWS

- 9.1 What is AWS
- 9.2 Introduction to AWS Services
- 9.3 AWS Cloud Features
- 9.4 Amazon Cloud Services- EC2, Elastic Beanstalk, RDS, Lambda
- 9.5 Create EC2 Instance in AWS
- 9.6 Create Role and user
- 9.7 Deploy and scale web applications
- 9.8 Deploy Spring Boot Application on AWS | Elastic Beanstalk
- 9.9 Upload and deploy web applications in a simplified fast way
- 9.10 Spring Boot with Data JPA Advanced application with Swagger UI deployment
- 9.11 AWS Interview Questions & Answers as per Industrial Practices
- 9.12 AWS Advanced Research and Development- Live Deployment



8. MICROSERVICES

- 8.1. Microservices Introduction
- 8.2. Microservices Architecture
- 8.3. Microservices Project Structure
- 8.4. Design standards
- 8.5. Spring Boot with Microservices Coding Standards
- 8.6. Application.properties vs application.yml file
- 8.7. Build Microservices
- 8.8. Spring Boot with Hibernate Microservices
- 8.9. Spring Boot with Data JPA Microservices
- 8.10. Spring Boot with JDBCTemplate Microservices
- 8.11. Creating Multiple Services using Spring Boot
- 8.12. Logger with Microservices
- 8.13. Micro Services Communication
- 8.14. RestTemplate
- 8.15. Feign Client
- 8.16. VO package creation for Multi Model Application
- 8.17. Set port number and application name for each service
- 8.18. Service Registry- Eureka Server
- 8.19. API Gateway for traverse centralize request
- 8.20. Hystrix DashBoard
- 8.21. Zipkin
- 8.22. Sleuth
- 8.23. Trace Application- System Health
- 8.24. Spring cloud API Gateway
- 8.25. Trace Fallback controller
- 8.26. Trace Services are up/down using controller service
- 8.27. Trace Dependent Services
- 8.28. Trace Controller | Methods and Services how many times used/hit
- 8.29. Advanced Level Research and Development for Microservices
- 8.30. Microservices HRM/Payroll Application
- 8.31. Microservices Customer | Product | Payment Order Application
- 8.32. Spring Boot with Microservices Finance Banking Application
- 8.33. Microservices Ecommerce Application with MySQL, PostgreSQL, MongoDB and Front End React JS
- 8.34. Spring Boot with Microservices GST Billing Application and Front End React JS
- 8.35. Spring boot project with Microservice architecture Real time integration of spring cloud eureka, Spring cloud API Gateway, Hystrix, Zipkin & Sleuth
- 8.36. Spring Boot with Microservices all Advanced Interview Questions & Answers
- 8.37. Microservices advanced Research and Development



9. WEB DESIGN

- 9.1. HTML 5
- 9.2. CSS 3
- 9.3. JavaScript
- 9.4. Bootstrap
- 9.5. Payment Gateway Integration
- 9.6. Domain and Hosting
- 9.7. Website Deployment and Go Live

10. React JS

- 10.1. **React JS Basics**
- 10.2. React JS Features
- 10.3. React JS Setup and Hello World Application
- 10.4. React JS JSX
- 10.5. React JS ES 6 Features
- 10.6. React JS Component
- 10.7. React JS State
- 10.8. React JS Props
- 10.9. React JS Constructor
- React JS Lifecycle 10.10.
- 10.11. **React JS Events**
- 10.12. React JS Router
- 10.13. React JS Forms
- 10.14. React JS Tables
- 10.15. **React JS Portals**
- 10.16. React JS ES6
- React JS CSS 10.17.
- 10.18. React JS Hook
- React JS Redux 10.19.
- 10.20. React JS Hooks
- 10.21. React useState Hook
- 10.22. React useEffect Hooks
- ava Developer 10.23. React JS, Axios, API Integrations
- 10.24. React JS and Back End Integration
- Spring Boot, React JS QR Code Application 10.25.
- 10.26. Spring Boot, React JS HRM Application
- 10.27. React JS GST Billing Application
- 10.28. **React JS Ecommerce Application**
- 10.29. React JS Finance Banking Application
- 10.30. React JS Interview Questions and Answers



11. TypeScript

- 11.1. TypeScript Introduction
- 11.2. TypeScript Overview
- 11.3. TypeScript Environment Setup
- 11.4. TypeScript Simple Types
- 11.5. TypeScript Special Types
- 11.6. TypeScript Variables
- 11.7. TypeScript Operators
- 11.8. TypeScript Arrays
- 11.9. TypeScript Tuples
- 11.10. TypeScript Decision Making
- 11.11. TypeScript Switch Statement
- 11.12. TypeScript Loops
- 11.13. TypeScript forEach
- 11.14. TypeScript Object Types
- 11.15. TypeScript Enums
- 11.16. TypeScript Type Aliases and Interfaces
- 11.17. TypeScript Union Types
- 11.18. TypeScript Functions
- 11.19. TypeScript Casting
- 11.20. TypeScript Classes
- 11.21. TypeScript Basic Generics
- 11.22. TypeScript Modules
- 11.23. TypeScript Utility Types
- 11.24. TypeScript Keyof
- 11.25. TypeScript Definitely Typed
- 11.26. TypeScript Ambients
- 11.27. TypeScript Build Tools
- 11.28. TypeScript with Back End Spring Boot Integration
- 11.29. TypeScript CRUD Application
- 11.30. TypeScript Customer Management Application
- 11.31. TypeScript QR Code Application
- 11.32. TypeScript HRM Application
- 11.33. TypeScript GST Billing Application
- 11.34. TypeScript Ecommerce Application
- 11.35. TypeScript Finance Banking Application
- 11.36. TypeScript Interview Questions and Answers
- 11.37. TypeScript Advanced Research and Development

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12. INDUSTRIAL ADVANCE CONCEPTS

1	Marian
1.	Maven

- 2. Gradle
- 3. JIRA
- 4. Jenkins
- Postman API
- 6. Swagger UI
- 7. GitHub
- 8. SVN
- 9. Perforce
- 10. Project Lombok
- 11. Junit
- 12. Splunk
- 13. JSON
- 14. XML
- 15. JAR
- 16. WAR
- 17. Apache Tomcat External Server Deployment
- 18. Spring Boot JMS ActiveMQ | RabitMQ
- 19. JMS
- 20. Apache Kafka
- 21. JUnit- Mockito
- 22. Thunder Client
- 23. Code Analysis using SonarQube
- 24. Code Coverage With Jacoco
- 25. Docker
- 26. Kubernetes
- 27. JWT
- 28. Oauth
- 29. SOLID Principles
- 30. DevOps-CI/CD
- 31. Agile Methodology
- 32. Scrum Call
- 33. AWS Cloud
- 34. Data Structure and Algorithms
- 35. Java Advanced Tools as per Latest Releases

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13. INDUSTRIAL SOFTWARES

- 1. JDK 17
- 2. Eclipse
- 3. IntelliJ IDEA
- 4. Apache Tomcat
- 5. Apache Maven
- 6. Gradle
- 7. MySQL
- 8. SQLYog
- 9. MongoDB
- 10. Postman API
- 11. Node.js
- 12. Docker
- 13. Gitbash
- 14. Sublime
- 15. Visual Studio Code

14. INTERVIEW QUESTIONS & PREPARATIONS

- Developer Life
- Programming practices
- Programming Concepts
- System Design and Integrations
- Software Architecture
- Interview Preparation
- Career Guidance
- Professional Consultation
- 24/7 Help Support

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About the Author: Mr. Kiran Jadhav holds the B.E. degree in Information Technology from Pune University, First Class with Distinction. He has about 10+ years of industry experience in Developing, Architecting, and Deploying Enterprise-Level Full Stack technological product and solutions for Fortune 500 MNC's in the domain of top Fintech, Retail Ecommerce, Banking, Insurance and Education technology.

Mr. Kirpa Jadhay, author of the Beat Sally USAL State Level

Mr. Kiran Jadhav, author of the Best Seller 'Full Stack Java Developer-Industrial Java' Book.

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He has worked at various corporate as Software Developer, Team
Lead, Solution Architect, Program Manager and Corporate Trainer
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Full Stack Java Developer

Office Address-Inspiria Mall, Level-04, Nigdi, Pimpri Chinchwad, Pune-411044

Mail: <u>contact@fullstackjavadeveloper.in</u> Website: <u>www.fullstackjavadeveloper.in</u>