



H.No: 7-1-413/2, Beside Sonabai Temple, Near Reliacne Fresh, Balkampet Rd, Ameerpet, Hyderabad - 500038

# JAVA REAL-TIME PROJECT COURSE CONTENT

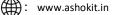
# **INTRODUCTION**

- 1) Introduction to Real-time Project
- 2) Types of Software companies
  - a) Product Based Companies
  - b) Service Based Companies
  - c) Outsourcing Companies
- 3) Interview process in software companies
- 4) Types of software jobs
  - a) Permanent Job
  - b) Contract Job
- 5) Types of software projects
  - a) Scratch Development Projects
  - b) Maintenance Projects
  - c) Migration Projects
- 6) Types of teams in software project
  - a) On-shore Team
  - b) Off-shore Team

# **REALTIME - TOOLS**

- 7) Maven
- 8) Gradle
- 9) Debugging
- 10) Project Lombok
- 11) GIT & Bit Bucket
- 12) Log4J & SLF4J
- 13) Putty & WinScp
- 14) JUNIT
- 15) Mocking
- 16) JaCoCoo
- 17) SonarQube
- 18) JIRA
- 19) Jenkins
- 20) Docker
- 21) Kubernetes
- 22) JMETER
- 23) Apache Kafka
- 24) Redis Cache
- 25) POSTMAN
- 30) Swagger

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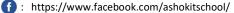






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# MINI PROJECTS DEVELOPMENT

#### 26) SDLC (Agile)

- I. Story
- II. Story Points
- III. Backlog grooming
- IV. Sprint Planning
- V. Sprint
- VI. Sprint Duration
- VII. Scrum
- VIII. Retrospective
- 27) Real-time Environment Terminology
- 28) Requirements Gathering
- 29) Requirements Analysis
- 30) Minutes of meeting
- 31) Query Log
- 32) DB Design
- 33) Real-time Coding Standards
- 34) 01-Mini Project
- 35) 02- Mini Project
- 36) Mini Projects Case study

# MAJOR PROJECT DEVELOPMENT

- 37) Major Project Introduction
- 38) Major Project Modules
- 39) Major Project Architecture
- 40) Major Project Functional Flow
- 41) Database Design
- 42) Microservices Development
- 43) Logging in Project
- 44) Swagger Configuration
- 45) Actuators Configuration
- 46) Exception Handling
- 47) Multi-Threading use case in Project
- 48) Rest Calls in Project
- 49) Batch Processing
- 50) Unit Testing
- 51) Integration Testing
- 52) Code Review
- 53) Project Deployment

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# AWS (Cloud)

- 54) What is Cloud Computing
- 55) AWS Introduction
- 56) AWS Advantages
- 57) AWS Account Creation
- 58) AWS Services Tour
- 59) Launching EC2 Machine (Linux)
- 60) Connecting to EC2 using Putty
- 61) Linux Commands
- 62) S3 Buckets
- 63) RDS (Relation Database System)
- 64) Deploying Spring boot app in AWS
- 65) Load Balancing
- 66) Auto Scaling
- 67) IAM User
- 68) Route 53

# ANGULAR FRAMEWORK

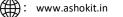
- 69) Angular Introduction
- 70) Angular JS vs Angular
- 71) Angular Version History
- 72) Angular Environment Setup
- 73) Angular Architecture
- 74) Angular App Development

- 75) Components
- 76) Templates
- 77) Directives & Pipes
- 78) Services
- 79) Forms Development
- 80) Form Validations
- 81) Routing
- 82) Http Client Module
- 83) Integration (Front End + Back End)
- 84) Spring Boot with Angular Integration
- 85) Angular App Deployment

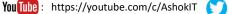
# **INTERVIEW GUIDE**

- 86) Resume Preparation
- 87) Profile Creation in job portals
- 88) Email Writing
- 89) HR Discussion details
- 90) Joining Formalities
- 91) Exit Formalities
- 92) Daily Activities in Job
- 93) Interview Tips & Tricks

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