

JAVA REAL-TIME PROJECT COURSE CONTENT

Software Industry Overview

- 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
- 7) How to collaborate with team members
- 8) Discussion related to Bridge calls & Official emails
- 9) Do's and Don'ts in the Software Company
- 10) Role Chart Details

REAL-TIME TOOLS FOR PROJECT DEVELOPMENT

- 11) Maven
- 12) Gradle
- 13) Project Lombok
- 14) SVN
- 15) GIT
- 16) BitBucket
- 17) Log4J
- 18) SLF4J
- 19) Putty & WinScp
- 20) Splunk
- 21) JUNIT
- 22) Mocking
- 23) Jacocoo
- 24) PMD & SonarQube
- 25) JIRA
- 26) Jenkins
- 27) Dockers
- 28) Kubernetes
- 29) JMETER
- 30) Apache Kafka
- 31) Redis Cache
- 32) SOAP UI
- 33) POSTMAN

MINI PROJECTS DEVELOPMENT

34) SDLC (Agile)

- I. Story
- II. Story Points
- III. Backlog grooming
- IV. Sprint Planning
- V. Sprint
- VI. Sprint Duration
- VII. Scrum
- VIII. Mid-iteration review
- IX. Retrospective

35) STLC

36) Real-time Environment Terminology

37) Requirements Gathering

38) Minutes of meeting

39) Query Log

40) DB Design

41) DB Template

42) Design (Technical Design Document)

43) Real-time Coding Standards

44) 01-Mini Project

45) 02- Mini Project

46) 03- Mini Project

47) Mini Projects Case study

48) Angular Basics

49) Angular Environment Setup

50) Angular Architecture

51) Angular App Development

52) Angular App Deployment

53) Angular Forms

54) Form Validations in Angular

55) Integration (Front End + Back End)

56) Heroku Deployment

AWS (Cloud)

57) What is Cloud Computing

58) AWS Introduction

59) AWS Advantages

60) AWS Account Creation

61) AWS Services Walk through

62) Launching EC2 Machine (Linux)

63) Connecting to EC2 using Putty

64) S3 Bucket

65) RDS

66) Deploying Spring boot app in AWS

67) Load Balancing

68) Auto Scaling

69) AWS Billing Overview

MAJOR PROJECT DEVELOPMENT

- 70) Major Project Introduction
- 71) Major Project Modules
- 72) Major Project Architecture
- 73) Major Project Functional Flow
- 74) Major Project Technical Flow
- 75) Database Design
- 76) Story Creation in JIRA
- 77) Story Designing
- 78) Story Development
- 79) Logging in Project
- 80) Log Monitoring
- 81) Swagger Configuration
- 82) Actuators Configuration
- 83) Exception Handling
- 84) Multi-Threading use case in Project
- 85) Rest Calls in Project
- 86) Batch Processing
- 87) Unit Testing
- 88) Integration Testing
- 89) Code Review
- 90) Project Deployment

INTERVIEW GUIDE

- 91) SOLID OOPS Principles
- 92) Class Loaders
- 93) Garbage Collection
- 94) LR Cache
- 95) Design Patterns overview
- 96) Heap dump
- 97) Thread Dump
- 98) Memory Analysis
- 99) Logical programs (weekly assignments)
- 100) SQL Queries for practice
- 101) Spring MVC Interview Questions
- 102) Hibernate Interview Questions
- 103) Spring Boot Interview Questions
- 104) Micro services Interview Questions
- 105) Project Manager Round Interview

Questions & Answers

- 106) Resume Preparation
- 107) Profile creation in job portals
- 108) Email Writing
- 109) Interview Tips & Tricks
- 110) HR Discussion details
- 111) Joining Formalities
- 112) First day and last day in office
- 113) Daily Activities in Job