



JAVA REAL-TIME PROJECT COURSE CONTENT

INTRODUCTION

- 1) Introduction to Real-time Project Types of
- 2) Software companies a) Product Based Companies b) Service Based Companies c) Outsourcing Companies Interview process in software companies Types of software
- 3) jobs a) Permanent Job
- 4) 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) JaCoCo 17) SonarQube 18) JIRA 19) Jenkins 20) Docker 21) Kubernetes 22) JMETER 23) Apache Kafka 24) Redis Cache 25) POSTMAN 30) Swagger

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

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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