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

7) **How to collaborate with team members**

8) **Discussion related to Bridge calls & Official emails**

9) **Role Chart Details**

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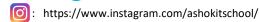
10) Maven
11) Gradle
12) Debugging
13) Project Lombok
14) GIT
15) BitBucket
16) Log4J
17) SLF4J
18) Putty & WinScp
19) Splunk
20) JUNIT
21) Mocking
22) JaCoCoo
23) SonarQube
24) JIRA
25) Jenkins
26) Dockers
27) Kubernetes
28) JMETER
29) Apache Kafka
30) Redis Cache
31) POSTMAN

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MINI PROJECTS DEVELOPMENT

32) 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

33) Real-time Environment Terminology

34) Requirements Gathering

35) Minutes of meeting

36) Query Log

37) DB Design

38) DB Template

39) Real-time Coding Standards

40) 01-Mini Project

41) 02- Mini Project

42) 03- Mini Project

43) Mini Projects Case study

MICROSERVICES

44) Monolith Vs Microservices

45) Microservices Advantages

46) Microservices Architecture

47) Service Registry (Eureka)

48) API Gateway (Cloud Gateway)

49) Gateway Routing

50) Gateway Filters

51) FeginClient

52) Microservices Case Study

MAJOR PROJECT DEVELOPMENT

53) Major Project Introduction

54) Major Project Modules

55) Major Project Architecture

56) Major Project Functional Flow

57) Database Design

58) Story Creation in JIRA

59) Story Development

60) Logging in Project

61) Swagger Configuration

62) Actuators Configuration

63) Exception Handling

64) Multi-Threading use case in Project

65) Rest Calls in Project

66) Batch Processing

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67) Unit Testing

68) Integration Testing

69) Code Review

70) Project Deployment

AWS (Cloud)

71) What is Cloud Computing

72) AWS Introduction

73) AWS Advantages

74) AWS Account Creation

75) AWS Services Walk through

76) Launching EC2 Machine (Linux)

77) Connecting to EC2 using Putty

78) Linux Commands

79) S3 Buckets

80) RDS (Relation Database System)

81) Deploying Spring boot app in AWS

82) Load Balancing

83) Auto Scaling

84) IAM User

ANGULAR FRAMEWORK

85) Angular Introduction

86) Angular JS vs Angular

87) Angular Version History

88) Angular Environment Setup

89) Angular Architecture

90) Angular App Development

91) Components

92) Templates

93) Directives & Pipes

94) Services

95) Forms Development

96) Form Validations

97) Routing

98) Http Client Module

99) Integration (Front End + Back End)

100)   Spring Boot with Angular Integration

101)   Angular App Deployment

102)   Heroku Deployment

INTERVIEW GUIDE

103)   Resume Preparation

104)   Profile Creation in job portals

105)   Email Writing

106)   HR Discussion details

107)   Joining Formalities

108)   First day and last day in office

109)   Daily Activities in Job

110)   Interview Tips & Trics