



COMPUTER & INTERNET BASICS

- Basics of computers
- How binary works behind
- Computer languages high & low level
- Basic of oops, variables, and loops
- Tcp/ip, udp, http, (browser, server, dns
- How to setup environment in ide

USER INTERFACE & FRONTEND DEVELOPMENT

- HTML & CSS
- Javascript & Dom
- Web development framework - React.js
- Introduction to React.js and JSX.

MIDDLEWARE DEVELOPMENT



- What is Java & Java SDK Installation and setup
- OOPs Concepts
- Class, Object, Method, Modifiers, Access Modifiers, Constructor
- Abstraction, Interface, Inheritance, Polymorphism
- Method Overloading, Method Overriding
- Encapsulation
- Variables, Data Types & Operators in Java
- Control Statements, Conditional Statements,
- Iteration Statements & Jump Statements
- Arrays & ArrayList in Java
- Collection Framework in Java
- Map, LinkedList in Java
- Exception Handling in Java

Spring Boot

- Build a REST API
- Write GET, POST, DELETE, UPDATE Methods
- Spring Data JPA & Create JPA Repository
- CRUD Operation with JPA Repository
- JPA Repositories for the Social API

Complete Application with Spring Boot From the Scratch

- Add Spring Security
- Reconcile User Profile and Employee Profile
- Role-Based Authorization
- Deploy SpringBoot With MySQL Database
- User Registration Page
- JWT (JSON Web Token)

Deployment and containers

- Introduction to Docker and Kubernetes
- Deploying application to AWS
- Introduction to Keycloak User management

BACKEND DEVELOPMENT



- Sql and relational database management systems mysql & maria db intro
- Introduction to Nosql databases mongo db, dynamo db & document db

SOFTWARE TESTING



- What is testing
- How to write JUnit testcase

CLOUD



- Introduction to AWS
- Deploying spring boot, Nodejs web application on amazon ec2 on AWS
- Working with S3 bucket

AGILE BASICS



- JIRA burn hours
- Burn down chart
- Retrospection
- Demo Session
- JIRA, Scrum
- Kanban, Standup
- Xstream Programming, Sprint Planning

REAL-TIME PROJECT



- SCRUM team Formed for a group of 10
- A Business use case problem / Client App with proper documentation is provided
- Project overview and technology walkthrough with help of a mentor
- A JIRA tool will be provided to run a sprint, backlog, grooming and demo
- Technical help on need basis will be provided for those who are needy

FREE ENVIRONMENT TOOLS

- EC2, S3 BUCKET, ASES, A PROFESSIONAL EMAIL, JIRA ACCESS FOR AGILE, BUGS AND PROJECT MANAGEMENTB, SCRUM BOARD, AMAZON GATEWAY, EKS, AWS OPEN SEARCH, MYSQL, DOCUMENTDB, KEYCLOAK USERMANAGEMENT, MARIADB, DYNAMODB, AWS ACCOUNTS FOR EACH USER

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