cogent university

8-WEEK

Java Bootcamp

COURSE CURRICULUM

Week 1 & 2

Java 8 Programming , MySQL,NoSQL [80 Hours] 10 days

A) Fundamental Programming

- Class & Object
- Review Of Object Oriented Programming
- Looping & Conditional Construct
- Exception Handling
- I/O and NIO [includes File Handling]

B) Introduction to Database

- MySQL - DDL, DML and other queries
- MongoDB [NoSQL]

C) Advance Java

- Lambda & Streams
- Concurrent API
- Threading
- Localization
- JDBC Connectivity

Requirement for Software Installation

- JDK 1.8 or JDK 11
- Eclipse for Java EE Developer
- MySQL Community Edition Server 8.x
- MySQL Workbench
- MongoDB Server
- MongoDB Compass

Week 3

Java EE Application Development with Hibernate [5 days]

- Introduction to Java EE
- JPS & Servlet
- Enterprise Java Bean - EJB 3.x & EJB Lite
- Web Services: JAX-RS & JAX-WS
- Log4j
- Java Persistence API [Hibernate ORM]

Requirement for Software Installation

- TomEE+ Server

Week 4 & 5

Spring Framework 5 & Spring Boot [10 days]

- Spring IOC/DI
- Spring Batch
- Spring AOP
- Spring MVC
- Spring Transaction
- Spring Mail

Spring Framework 5 & Spring Boot [10 days]

- Spring Web
- Spring JPA
- Spring REST/WEB
- Spring Boot Swagger REST Endpoint Documentation
- Unit Testing [TDD] & Mockito [BDD]

Week 6

Frontend Module [Angular 11] [5 days]

- Basic of HTML & Java Script - Functional Programming
- BootStrap Overview
- Angular 11 Introduction
- Single Page Application
- Components and Data Binding
- Routing
- Forms and Pipes
- Services and Dependency Injection
- HttpService
- Angular JWT Integration

Week 7

AWS & DevOps [5 days]

- EC2
- S3
- RDS
- Deployment of Full Stack Application
- Agile Methodology & JIRA
- DevOps -CI Jenkins Introduction

Week 8

Capstone Project. [40 hours]

On Demand Training: [We will cover it in skill enhancement sessiondepending upon requirement **]**

- Micro-services
- Kafka
- Dockers
- Kubernetes

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