

Week-1

Java, Database &Mongo DB

- Program in Java using Java SE 8, the long-term support releases, and most widely used versions of Java SE.
- Best practices of OOP's concepts using Java Code implementations
- Learn & prepared you to get certified on Java SE-8.
- Learn SQL query basic and advanced concepts of Database.
- Practices more on DBMS such as introduction, ER model, keys, relational model, join operation, SQL.
- Uses of DDL, DML, DCL SQL Statements.
- Learn about the No-sql Database
- Work on Mongo DB Database(create,update,delete,insert).

Week-2

JEE & ORM (Hibernate)

- Learn about JEE architecture& components
- Program using Java EE 7, which is the platform for enterprise Java applications.
- Learn & developed web applications using Servlet & JSP
- Introduction of Hibernate & concepts of Object-Relational Mapping (ORM).
- Learn to connect database using Java Code with Hibernates.
- Learn HQL to implements Hibernate query on Objects.
- Work on Hibernate Entity-relationship using some important annotations.

Week-3

Spring Framework

- Basics of Spring Framework - Dependency Injection, IOC Container, Application Context and Bean Factory.
- Spring Annotations - @Autowired, @Component, @Service, @Repository, @Configuration, @Primary, @Qualifier
- Spring MVC in depth - DispatcherServlet , Model, Controllers and ViewResolver
- Basic of Spring AOP, Understand AOP TerminologyPointcut,Advice,Aspect,Join Point using annotations.
- Managed Transaction using Spring Transaction using @Transactional
- Introduction to Spring Data JPA, Implements JPA Repository ,CURD Repository

Week-4

Spring Boot & Integrations

- Introduction to Spring Boot - Goals and Important Features
- Using Spring Initializer to create a Spring Boot Application
- Learn more about Spring Boot – Components
- Introduction Restful API ,developed RestAPI using Spring Boot.
- Developed CURD RestAPI using Spring Data in Spring Boot.
- Introduction Spring Security, Implements Spring Security JWT using Spring Boot.
- Introduction of Kafka Messaging Services & implementations using Boot.

Week-5

UI- Angular

- Introduction of Typescript, Best Practices using Typescript
- Introduction of Angular ,developed apps using components ,Directives,forms,HTTP Client,Services,Routers etc.
- Building Real-time Server-less Apps using Angular
- Write clean and elegant like a professional developers
- Troubleshoot common Angular errors

Week-6

Web-Service, Microservices & Docker

- Introduction of Web Services, SOAP & Restful API
- Use Apache CXF the Popular WS Stack
- Developed SOAP consumer & producers.
- Master the REST web service concepts and Implementation
- Jersey REST Quick Start
- Create different types of REST Clients, Secure Rest Services
- Introduction of Microservices, developed applicationMicroservices using Spring Cloud in Spring Boot.
- Introduction of Docker, create Docker file, build Docker image into Docker hub.

Week-7

AWS

- Introduction of AWS
- The AWS Fundamentals: IAM, Load Balancing, Auto Scaling, Route 53
- Learn the Server less Fundamentals (Lambda, DynamoDB)
- Learn the AWS Fundamentals (EC2, EBS, RDS,S3)
- Learn more on VPC & Networking in depth
- Developed Spring Boot application on AWS .