Course Details

Core Java

1) What is Java?
2) Path Set for Java
3) JVM,JDK and JRE
4) Internal architecture of JVM
5) Simple java program
6) Object and Class
7) constructor
8) this and super keywords
9) String in Java
10) Arrays in Java
11) Typecasting in Java
12) Oops Concepts
    a) Inheritance
    b) Polymorphism
    c) Abstraction
    d) Encapsulation
13) Inner classes
14) Wrapper Class
15) Exception
16) IO packages
17) Collection Framework
    a) List interface
    b) Map interface
    c) Set interface
18) Comparable interface
19) Comparator interface
20) Multithreading in Java

Java 1.8

1) Java 8 features
2) Java 8 Lambda expression
3) Java 8 Functional interfaces
4) Java 8 Function, Predicate, Consumer and Supplier
5) Java @FunctionalInterface Annotation
6) Method reference
7) Stream API
8) Java 8 Stream - Creating Stream Objects Example
9) Java 8 Stream - filter() and forEach() Example
10)Java 8 Lambda - Sort List
    in Ascending and Descending Order | Comparator Example
11) Java Sort List (ArrayList)
    in Ascending and Descending Order using Java 8 Stream API
12) Java 8 Static and Default methods
13) Java 8 Collector Class
14) Different Ways to Iterate over List, Set, and Map in Java
15) Collections Aggregate Operations

Design Patterns

1) Creational Design Pattern
    a) Factory Design Pattern
    b) Prototype Design Pattern
    c) Singleton Design Pattern
2) Structural Design Pattern
    a) Adapter Design Pattern
    b) Facade Design Pattern
    c) Proxy Design Pattern
3) Behavioral Design Pattern
    a) Chain of Responsibility Design Pattern
    b) Template Design Pattern
    c) Strategy Design Pattern

Hibernate 5.0 and Spring 5.0

1) Introduction to Hibernate
2) Hibernate Architecture
3) First Hibernate Example
4) HB Generator classes
5) Inheritance Mapping
    a) Table Per Class
    b) Table Per Sub-Class
    c) Table Per Concrete Class
6) Hibernate Mapping
    a) Mapping List
    b) Mapping Set
    c) Mapping Map
    d) One to One(xml)
    e) One to One(annotation)
    f) One to Many(xml)
    g) One to Many(annotation)
    h) Many to Many(xml)
    i) Many to Many(annotation)
7) tnx Management
8) HQL(Hibernate Query Langauge)
9) HQL CRUD Operations
10) HQL with Aggregate functions
11) Primary and Secondary Cache
12) Criteria in Hibernate
13) Criteria with Projection
14) Named Queries in Hibernate
15) Hibernate Caching(First and Second Level)

1) Spring Introduction
2) Spring Modules
3) Spring Architecture
4) Spring Life Cycle
5) Spring Bean Scope
6) Spring IOC and Dependency Injection(DI)
7) Constructor Injection
    a) CI with Dependent Object
    b) CI with String Object
    c) CI with Collection
8) Setter Injection
    a) SI with Dependent Object
    b) SI with String Object
    c) SI with Collection
9) Spring auto-wiring
    a) Auto-wiring byName
    b) Auto-wiring byType
10) Spring Transaction
11) Spring ORM
12) Spring MVC
13) Spring Model and Controller
14) Spring Integration
15) Spring Security(Web Application)

Springboot and Microservices

1) Springboot Introduction
2) Difference between Spring and Springboot
3) Creating Springboot with SpringInitializer
4) Installing Springboot project with Maven
5) Springboot Helloworld example
6) Overview of Springboot starters, Actuators
7) Springboot Annotations
8) Springboot with Hibernate/JPA
9) Springboot PathVariable,RequestBody ResponseBody and ResponseStatus
10) One Project using Springboot 2.0 + JSP + Hibernate 5.0 + Tomcat 8.5 + MySql + SpringMVC

MicroServices Architecture

MicroServices Design Patterns

Projects to fill your career gaps

1) Banking Domain
2) Insurance Domain
3) Telecom Domain
4) HealthCare Domain
5) Media Domain
6) Travel Domain