

TrainerName : NitinManjunath
WorkExperience: 10+ years of training and development experience in building microservices.
Currently working : PWSkills as Mentor.

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Course : Microservices in java for Cloud
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Java
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Module-1[2 months time: Friday(7.30PM to 10.00PM),Saturday and Sunday[10.00AM to 1.00PM]]

Corejava

1. Language Fundamentals
2. Loops and Control statements
3. Arrays and Strings
4. Oops(Object Orientation Programming)
5. Usage of modifiers in java environment
6. Pillars of oops
 - a. Inheritance
 - b. Abstraction
 - c. Encapsulatiion
 - d. Polymorphism(pure abstraction and not complete abstraction)
- 7.Interfaces(Software Requirement Specification)

Module-2[2-2.5 months time:Friday(7.30PM to 10.00PM),Saturday and Sunday[10.00AM to 1.00PM]]

Corejava(extension)

1. Exception Handling
2. MultiThreading with ConcurrencyAPI
3. Annotations in java and Creating a Custom Annotation
4. JDK 1.8Features like
 - a. Optional Api
 - b. Stream API
 - c. Date and Time API
 - d. Lambda Expression
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5. Collection API with Generics(very important)
6. JVM Architecture and Garbage Collector algorithms.

Module-3[1 month time :Friday(7.30PM to 10.00PM),Saturday and Sunday[10.00AM to 1.00PM]]

AdvancedJava

1. Networking
2. Serialization,DeSerialization
3. Input and OutputOperation
4. MySQL basics
5. JDBC
6. Servlet
7. JSP and Thymleaf basics

Module-4

Framework-1

- a. Hibernate(tools used will be maven and gradle, repository like :github, IDE: eclipse,intelij)
- b. SpringCore basics
- c. Introduction of SpringBoot
- d. SpringDataJPA using SpringBoot(SQL and NOSQL)
- e. SpringMVC using SpringBoot

f. SpringSecurity using SpringBoot

Module-5

Framework-2

- a. SpringJMS using SpringBoot
- b. SpringRest using SpringBoot[Swagger,PostMan]
- c. SpringReactive programming using SpringBoot
- c. Microservices
 - a. Need of Feign client
 - b. Need of eureka server
 - c. Circuit and hystrix breaker
 - d. Interservice communication b/w 2 microservices[API Gateway]
 - e. LoadBalancer
 - d. K8's and Docker [only basics]
 - f. Deployment of Application in AWS cloud
 - g. Junit,HttpUnit,Mockito
 - h. SpringRest with React Programming integration(optional)