Core Java

Spring Boot

AWS

Hibernate

GIT

GUI

Maven

REST API

Full Stack Java Developer

DevHub

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Syllabus

CoreJava

1. Introduction To Java

2. JVM

3. Object Oriented Programming Concepts

• Abstraction, Encapsulation, Polymorphism, Inheritance

4. Access Specifiers – Public, Private, Protected, Default

5. Static Concept – Block, Variable, Method

6. Class

7. Control Statement – If, If...else, Nested if...else and Switch

8. Flow Statement- for, while, do..while

9. Constructor- Default, Parameterized

10. Inheritance

11. Extends, super and this keyword

12. Method Overloading, Method Overriding

13. Interface

14. Abstract Class

15. Garbage Collection

16. Serialization

17. Exception Handling

18. Exception Handling- try, catch, throw, throws, finally

19. String

20. String Buffer

21. Collection Framework

22. List 1. Array List 2. Linked List

23. Set 1. Hash Set 2. Tree Set

24. Map 1. Hash Map 2. Tree Map

25. JDK 1.8.0 New Features with Hands-on

26. Programming practices, Concepts & Interview Preparation

Syllabus

J2EE

1. JDBC Introduction
2. 2. JDBC Architecture
3. Database Overview
4. 4. JDBC Basics
5. 5. My SQL
6. 6. Create Database
7. 7. Create Table
8. 8. Insert, Update, Delete
9. 9. Truncate
10. 10. SQL Join

11. Aggregate Function 1. MIN 2. MAX 3. AVG 4. SUM 5. COUNT

12. Java Application Using JDBC Connectivity

13. Handling SQL Exceptions

14. ResultSet

15. Connection

16. Statement

17. Prepared Statement

18. Collable Statement

19. CRUD Application

Syllabus

JSP, Servlet and GUI

1. Servlet Basics

2. Need of Server Side Programming

3. Servlet Life Cycle 1 Init() 2 Service() 2.1 doGet() 2.2 doPost() 3 Destroy()

4. Servlet Hello World Application

5. Web.xml Structure

6. Servlet Directives- include(), forword(), sendRedirictive()

7. HttpServletRequest, HttpServletResponse

8. Servlet, HTML 5, MySQL,

9. Tomcat using Real Time Login Application

. JSP

1. JSP Basics

2. Creating dynamic Web content with JSP

3. Scriplet

4. Declaration

5. Servlet, JSP, MySQL, Tomcat Login Application

6. Servlet, JSP, MySQL, Tomcat CRUD Application

WEB GUI:

1. HTML

2. CSS

3. Bootstrap

Mini Project Using GUI, JSP Servlet and JDBC

Syllabus

FRAMEWORKS -Hibernate

1. 1. Hibernate Introduction

2. 2. Hibernate Basics

3. 3. Hibernate with HBM

4. 4. Hibernate with Annotation

5. 5. Hibernate CRUD

6. 6. Hibernate Association Mapping

   1. One to One Mapping   2. One to Many Mapping   3. Many to One Mapping   4. Many to Many Mapping

7. Hibernate Aggregation Projection

8. Hibernate Projection

9. Hibernate Application with Mysql DB- CRUD

10. Hibernate Application with Mysql DB, JSP-User Interface- CRUD

11. Programming practices, Concept & Interview Preparation.

Syllabus

FRAMEWORKS - Spring

1. Spring Introduction

2. Spring Basics

3. Inversion of Control

4. Dependency Injection

5. Beans Scope

   5.1 Singleton 5.2 Prototype 5.3 Request 5.4 Session 5.5 Global-   Session

6. Auto wiring

7. Spring Annotations

 8. AOP

9. Spring MVC

10. Spring, Hibernate, Mysql, Maven- CRUD Operation

Spring Boot & Microservices

1. Spring Boot Introduction

2. Spring Boot Basics

3. Spring Boot with RESTFul Service – GET, POST, PUT, PATCH, DELETE

4. Spring Boot,

5. Java, SpringBoot, Algorithm, Hibernate, Maven, Mysql Integration Application

13. Project Modules

1. Customer Login

2. 2. Add Customer

3. 3. Edit Customer Information

4. 4. Delete Customer

5. 5. View Customer List

Syllabus

INDUSTRIAL ADVANCE

1. JDK 1.8.0
2. Eclipse
3. Tomcat
4. MySQL
5. SQLYog
6. Maven
7. Sublime
8. HTTracker
9. Bracket
10. Atom
11. Visual Studio Code

INDUSTRIAL ADVANCE CONCEPTS

1. Jenkin
2. JIRA
3. Perforce
4. GIT
5. Maven
6. JUnit
7. JSON
8. XML
9. POSTMAN
10. Micro Services
11. Research and Development

Interview Questions and Preparations, Programming practices, Concepts & Interview Preparation with live project.