

Java Full stack Development

Course Content

This course covers a wide range of topics, including Java programming language, frontend development, back-end development, and more. It provides hands-on experience with real-world projects, helping you to apply what you've learned in a practical setting.

Introduction

1. What is Front End Development

2. Front End Technologies

3. What is Back End Development

4. Backend Development Technologies

5. What is Full stack Development

6. Advantages of Full stack

Development

7. Roles of Full stack Developer

Module-1: Backend Development

Core Java

8. What is Programming Language?

9. Types of programming languages

10. Java Introduction

11. History of Java

12. Principles of Java

13. Java Installation

14. Java Program Execution Flow

15. JDK vs JRE

16. JVM Architecture

17. Identifiers & Keywords

18. Data Types

19. Variables

20. Methods

21. Arrays

22. Strings Handling

23. Object Oriented Principles

24. Constructors

25. Interfaces

26. Programs related to OOPs

27. Final classes

28. Abstract Class

29. Exception handling

30. Multi-Threading

31. Wrapper classes

32. Auto Boxing, Un-Boxing

33. Java Memory Management

34. Introduction to Collection

Framework

35. List

36. Set

37. Map

38. Properties

39. Java 8 Features Introduction

40. Lambda Expressions
41. Functional Interfaces
42. Default & Static Methods
43. Method References
44. Date and Time API changes
45. Stream API
- Advanced Java
1. Introduction to Advanced Java
2. Introduction to Database
3. Types of databases
4. Database Environment Setup
5. DB Table Creation
6. Table Altering
7. CRUD Operations
8. Primary Keys
9. Foreign Keys
10. JDBC Introduction
11. JDBC API Details
12. JDBC Architecture
13. JDBC Driver
14. Driver Manager
15. Connection
16. Statement
17. Prepared Statement
18. Callable Statement
19. Result Set
20. What is Dao Layer?
21. Steps to create JDBC Application
22. JDBC Applications Development
23. CRUD Operations
24. Connection Pooling
25. Most common exceptions in JDBC apps
26. Servlets
27. What is web application?
28. Web application architecture
29. Client & Server
30. Http Protocol
31. What is Servlet?
32. Servlet API
33. Servlet Life Cycle
34. Steps to create Servlet
35. Deployment Descriptor
36. Servlet interface
37. Generic Servlet class
38. HttpServlet class
39. HttpServletRequest
40. HttpServletResponse
41. ServletConfig
42. ServletContext
43. Init Params
44. Forms development
45. Cookies
46. Hidden variables
47. JSP
48. Introduction to User interface

49. Introduction to JSP

50. Servlets vs. JSP

51. Life Cycle of JSP

52.JSP Implicit Objects

53.JSP Directives

54.JSP Scripting Elements

55.MVC Architecture Introduction

56. Forms Development

57.Mini Projects Development

Web Development

HTML

1. Web Development Overview

2. HTML Introduction

3. HTML Document Structure

4. Headings

5. Paragraphs

6. Typography

7. HTML Links

8. Images in HTML

9. Attributes

10. Lists

11. HTML Tables

12. Forms & Inputs

13. Block & Inline elements

14. Divs

15. Spans

16. Classes & Ids

17. HTML 5 Semantics

CSS

19. CSS Introduction

20. Basic CSS Selectors

21. Dev Tools Introduction

22. Fonts

23. Colors

24. Backgrounds

25. Borders

26. Box Model

27. Margin & Padding

28. Display, Alignment & Positioning

29. Pseudo Selectors

30. Responsive Layouts

31. Introduction to FlexBox

32. Building Responsive Website

JAVA SCRIPT

51. Introduction to Java Script

52. Script Tags

53. Console Output

54. Variables

55. Data Types

56. Strings & Strings Methods

57. Arrays

58. Java Script Objects

59. JSON

60. Arrays

61. Loops

62. Array Helpers

63. Conditionals

64. Functions

65. Constructor Functions

SPRING BOOT & MICRO SERVICES COURSE

SPRING BOOT

1) What is Spring Framework

2) What is Spring Boot

3) Differences between Spring & Spring
Boot

4) Spring Boot Overview

5) Pros & Cons of Spring Boot

6) Approaches to create Spring Boot
Application

a) Spring Initializer (start.spring.io)

b) Spring Starter Wizard in STS IDE

7) Introduction to Spring Boot Starters

a) Spring Boot Parent Starter

b) Spring-boot-starter

c) Spring-boot-starter-web

d) Spring-boot-starter-webflux

e) Spring-boot-starter-data-jpa

f) Spring-boot-devtools

g) Spring-boot-starter-mail

h) Spring-boot-actuator

i) Spring-boot-starter-test etc.

8) What is Start Class in Spring Boot

9) @SpringBootApplication annotation

internals

10) SpringApplication.run(..) method

internals

11) Spring Boot Application Boot
strapping

12) AutoConfiguration in Spring Boot

13) IOC container

14) Dependency Injection

a) Setter Injection

b) Constructor Injection

c) Field Injection

15) Stereotype Annotations

a) @Component

b) @Service

c) @Repository

d) @Controller

16) Base Package Naming convention

17) Component Scanning

18) Auto wiring

a) byType

b) byname

c) constructor

d) none

19) @Qualifier annotation

20) @Primary annotation

21) Introduction to @Configuration
annotation

22) Details of @Bean annotation

23) Bean Life Cycle

24) Bean Scopes

25) Banner in Spring Boot

26) Standalone application

development

27) Standalone application with layered

architecture

28) Runner in Spring Boot

a) Application Runner

b) CommandLine Runner

* SPRING DATA JPA

* SPRING WEB MVC

* SPRING REST

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