

Backend Development Live



Detailed
Course Syllabus

CONTENTS



WEEK 01:

- Java OOPS Concepts: Object, Class, Inheritance, Polymorphism, Abstraction, Encapsulation
- Exception Handling in Java
- Java Collection

WEEK 02:

- Streams and File Handling in Java
- Threads in Java: Multithreading related concepts, problems and their solutions
- Maven

WEEK 03:

- Introduction to Web Services
- Introduction Spring Framework
- Introduction to Spring Boot
- RESTful Web Services with Spring and Spring Boot

WEEK 04:

- RESTful APIs
- Introduction to MySql
- JDBC (Java Database Connectivity)
- Data Access Using JDBC Template

WEEK 05:

- Introduction to JPA, Hibernate & Spring Data
- Minor Project 1: Developing a Web App (Micro-service)
 using Spring Boot + Hibernate + MySQL + RESTful A

WEEK 06:

- Redis
- Redis with Spring Boot
- Spring Security

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WEEK 07:

- OAuth 2.0
- Minor Project 2: Developing a Web App (Micro-service) using Spring Boot + Hibernate + MySQL+ RESTful APIs + OAuth 2 + Security

WEEK 08:

- Kafka
- Kafka with Spring Boot

WEEK 09:

- Major Project: Developing a complete Web App (that includes some Spring Boot-based Microservices) for an e-wallet (like Paytm) App, using Spring Boot + Hibernate + MySQL + RESTful APIs + Redis + Kafka +OAuth 2+ Security. It will have all the common functionalities that any e-wallet (like Paytm) can have.