SOLID Principles and Design Patterns:

- About Solid Principles
- Single Responsibility Principle
- Open-Closed Principle
- Liskov Substitution Principle
- Interface Segregation Principle
- Dependency Inversion Principle
- About Design Patterns
- Builder Pattern
- Singleton Pattern

Spring Core Concepts:

- About Spring Framework
- Spring Modules
- Spring Container
- Two types of Dependency Injection
- The Spring Configuration File
- Data Types of Dependencies
- Life Cycle Methods
- Dependency Check,Inner beans and Scopes
- Auto-Wiring
- Standalone Collections
- Stereotype Collections
- Injecting Interfaces

Spring Boot:

- About Spring Boot
- Spring and Spring Boot
- Creating Our First Spring Boot Application Using Spring Initializr
- Fundamentals of Spring Boot
- Dependency Injection and Inversion of Control
- Demo: Thymeleaf
- Spring Data with Spring Boot

- Creating Repositories and Persisting Data with JPA and Spring Data
- Reading and Querying Data with JPA and Spring Data
- Different Ways to Query Data with JPA and Spring Data
- Create, Read, Updating and Delete Data with JPA and Spring Data

Restful APIs with Spring Boot:

- About Restful APIs
- HTTP Request Types
- HTTP Response Codes
- HTTP Clients
- GET with Spring REST
- POST with Spring REST
- PUT with Spring REST
- DELETE with Spring REST
- REST API Elements Explained
- Build Your Own REST API

Project:

• Employee Management System