

Tools:

- Java (OpenJDK 17)
- Eclipse IDE: For programming
- Git CLI: For working with code repositories
- Testing API endpoints: Postman
- Maven: For building artifact
- DBeaver: For accessing database

Week 1:

- Setup Development Environment
 - Software installations
 - Github account/repositories
 - Official Email accounts
 - Communication group for status updates
- [GIT fundamentals](#) (Udemy Course Duration: 4 hours)
- OOPS
 - [Master Object Oriented Programming Concepts](#) (Udemy Course Duration: 45 mins)
- SQL
 - [Introduction to Databases and SQL Querying](#) (Udemy Course Duration: 2hr 17 min)
- Core Java
 - [The Complete Java Development Bootcamp](#) (Udemy Course Duration: 2hr 17 min)
- Assignments

Week 2:

- Maven
 - [Maven Quickstart](#) (Udemy Course Duration: 34 mins)
- Unit Testing:
 - [Mockito](#)
 - [JUnit5](#)
- Microservices
 - [Spring boot tutorial](#) (Udemy Course Duration: 15.5 hours)

Week 3:

- Microservice – (Continued from Week 2)
 - [Spring boot tutorial](#) (Udemy Course Duration: 15.5 hours)
- [API Testing using Postman](#) (Udemy Course Duration: 1.5 hours)

- Low Code Frameworks - Lombok, Mapstruct (Duration: 3 hours)
- Code Quality Tools – SonarLint (Duration: 6 hours)

Week 4 :

HTML5 ----- <https://www.udemy.com/course/html5-fundamentals-for-beginners/> --- (duration: 5 hr)

JQuery ----- <https://www.udemy.com/course/refactoru-intro-jquery/> -- (duration: 1hr 25 min)

JSP ----- <https://www.udemy.com/course/jsp-servlet-free/> -- (duration: 2 hr 19 min)

JSTL - <https://www.baeldung.com/jstl>

Spring - Core, MVC, --- <https://www.youtube.com/watch?v=g2b-NbR48Jo> -- (duration: 1 hr 15min)

JDBC , Hibernate --- <https://www.udemy.com/course/hibernate-basics/> -- (duration: 1 hr 15 min)

Logging: SLF4J, Log4j - <https://www.youtube.com/watch?v=tMLEbGJ2z7I> --- (duration: 6 min)

Week 5 & 6: Final Project

Guidelines:

- Daily commits to Code Repository are a must before leaving for the day
- Code should follow Best Practices and Sonar scan need to be done before pushing the code to repository
- Working demo must be given on weekly basis to Mentor/Leads