TOC – C1 - Java

**Duration:** 20 days

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| **Topics** | **No of Days (20 days)** |
| Java 8 | |
| Basic Java OOPs & Exception Handling | 0.5 day |
| Collections, Complex Collection Tree, Sorting , Equals & HashCode | 1.5 day |
| Java 8 , Lambda , Stream API | 1 day |
| Oracle & SQL | |
| SQL Quries , Joins | 1 day |
| Hibernate - LifeCycle & One to One, One To Many , Manay to Many , Uni & Bi Directional , Custom Query through JPQL | 2 days |
| Spring Framework | |
| Understanding of Spring MVC & Web Architecture | 0.5 day |
| Design Patterns [Singleton , Factory , Abstract Factory, Builder&Facade] | 0.5 day |
| Spring boot - REST App Using JPA , Sonar Qube , Swagger | 1 day |
| Spring Boot Custom Exception Handling , Server Side Validations , Calling Native Query | 1 day |
| Spring Security Basic , In-Memory,JWT | 1 day |
| Spring Junit Testing , Mockito , Testing of Service Layer | 2 days |
| Automation Server | |
| CI/CD Jenkins | 1 day |
| Front End | |
| Understanding React App project Structure & Flow , Functional & CLass Components | 1 days |
| JSX , Props , State , Updating State , Component Life cyle , React Hocks & Events , Conditioning Rendering (withif statement & Operators) | 1 day |
| Rending List , Maps , React Router & Intergartion with Spring | 1 day |
| Project Development | 4 days |