# Fullstack Web Development Training

for

Operative India Pvt Ltd,

Koramangala

,Bengaluru

Date of Submission : 9-July-2022

**Trainer**

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**B.E, MS (Software Systems)**

Syllabus

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| **Week (4 hours per day and 5 days in a week)** | **Module** | **Topics** |
| **Week 2** | **Front End –**  **Angular 12 and Type Script** | * Recap of the topics covered in week 1 * What is a SPA? * What is Angular? * Angular Architecture * Setting up environment * Build first angular application * TypeScript * Building Angular Components * Creating models * Property Binding and Events * Interpolation and 2-way data binding * Forms (Template Driven and * Reactive Forms) * Daily assignments * Weekly assessment |
| **Week 3** | **Front End – Angular 12 and Type Script**  **Back End – Java 8 Advanced topics** | * Directives * Pipes * Dependency Injection and services * Routes * HTTP, Promises, and Observables * Implement a sample use case using angular * Recap on basic concepts of Java * Collection framework * Function Interface and Lambda expression * Stream API * forEach() Method In Iterable Interface * Default and Static methods in interfaces * Daily assignments * Weekly assessment |
| **Week 4** | **Back End – MySQL and Hibernate ORM**  **Introduction to Spring** | * Introduction and installation of MySQL * SQL Queries- CRUD Operation * Introduction to JPA * Introduction to Hibernate * Architecture of Hibernate * Create sample hibernate project using maven * CRUD using Hibernate * Hibernate mapping * Transaction management * **Introduction to Spring** * IOC and dependency Injection * Daily assignments * Weekly assessment |
| **Week 5** | **Spring Boot**  **End to end application development** | * Introduction to Spring boot * Introduction to Rest API * Develop Rest API using Spring boot * Consuming Rest API * Developing end to end application using   Angular and Spring Boot   * Daily assignment * Final assessment |

1. Pre-requisites

Trainees are expected to install the software which are required for training. Proposed softwares are

Visual Studio Code,Node.js, Angular,Eclipse, MySQL,Postman,etc.

Good internet connectivity is required.

Trainees are expected to know the basics of any programming language.