This course is designed to offer a comprehensive knowledge and understanding of UI Design, Front-end, backend, database development. Further, it touch bases on API end points, communication, and final integration and development.

Course 1

WEEK 1

OSL

- Agile is used to plan the Project
- Github is used to create Project Structures and to sync
- MySQL is used to connect database
- HTML is used to build good looking and functional website

WEEK 2

OSL

- CSS adds life to plain HTML website
- JavaScript creates styles and design of the page layout

Project Planning and Create Project Structure

- Project Planning
- Create Project Structure and Sync with GitHub

WEEK 3

OSL

- Angular helps to build single-page client application
- Cucumber helps to test built application

WEEK 4

End User Web Pages
DB Structure for End User

- Develop the Web Pages in Angular for End User Web App
- DB Structure for End User

Admin Dashboard Web Pages
DB Structure for Admin

- Develop the Web Pages in Angular for Admin Dashboard
- DB Structure for Admin

Course 2

WEEK 6 and 7

OSL

Java

- Java helps in creating a web application that can be accessed from different networks

WEEK 8

OSL

Maven™

- Maven helps in building project, reporting and documentation

Setup Maven Project and Class Orchestration

- Working on Designing Model for Admin Dashboard
- Working on Designing Model for End User Web App

WEEK 9

OSL

Java JDBC

Servlet

- JDBC is used to communicate with database
- Servlet is used to increase your server capabilities

OSL

- MongoDB is a document-oriented NoSQL database
- MongoDB helps to increases website performance

WEEK 10

OSL

- Servlets helps to manage dynamic content
- JSP helps to create dynamic web content or web pages

WEEK 11

DB Orchestration

- Configure the Project with dependencies
- Develop, Build and Package the Project

DB Orchestration – Admin

- DAO Design Pattern
- Implement CRUD Operations

WEEK 12

DB Orchestration - Enduser

- DAO Design Pattern
- Implement CRUD Operations

Course 3

WEEK 14

OSL

JUnit spring

- Junit helps in streamlining the automation testing process and provides an easier approach in writing test cases
- Spring helps to create high quality code for application

DB Orchestration

- Develop Servlets for the Admin Backend to perform CRUD Operations with HTTP Request Response
- Develop Servlets for the End User Backend to perform CRUD Operations with HTTP Request Response
- Write Test Cases for Backend using JUnit

WEEK 15

OSL

spring

spring boot

- Spring helps to build reusable and testable codes
- Spring boot helps to build standalone application that can run independently

WebServices 1

- Create Spring boot Project
- Develop Repository
- Build and Execute

WEEK 16

OSL

- Spring boot eliminates the need of writing lot of codes
- Web services allow various applications to talk to each other and share data and services among themselves

WEEK 17

FrontEnd Backend Communication 1

- Implement HTTP Client for Angular Web Admin

WEEK 18

WebServices 2

- Develop RestControllers and Microservices
- Build and Execute

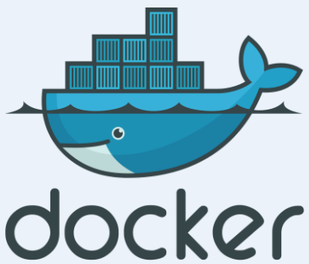
FrontEnd Backend Communication 2

- Implement HTTP Client for Angular End User

Course 4

WEEK 20

OSL



- Jenkins helps in generating a build after merging the new changes
- Docker helps to separate applications from the infrastructure to deliver softwares quickly
- AWS provides servers, storage, networking

OSL

- AWS provides remote computing, email, mobile development, and security

WEEK 21

Jenkins and Docker – Frontend

- Setup Jenkins
- Dockerise the Pipeline

WEEK 22

OSL

- AWS creates a secure infrastructure, expands storage and mitigate issues with its networking

WEEK 23

Configure AWS for FrontEnd

- Setup AWS for Angular Apps
- Build and Deploy with Jenkins Docker

WEEK 24

Configure AWS for BackEnd

- Setup AWS for Java Backend
- Build and Deploy with Jenkins Docker

Jenkins and Docker – Backend

- Setup Jenkins
- Dockerise the Pipeline

You are a full stack developer