

Java FSD with Angular: Course End Project

1. Project Details

Project Title: CI/CD Deployment for Spring boot Application.

Project Objective: As a Full Stack Developer, you have to build a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

2. Developer Details

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3. Project Background and Problem Statement

As the project is in the final stage, management has asked you to automate the integration and deployment of the web application. You are required to set up an environment where the application will be hosted and accessed by users. The source code is supposed to be fetched from a GitHub repository.

4. Sprints Planned

- **Sprint 1:** Developing Simple Spring boot application
- **Sprint 2:** Setting up and installing required libraries in EC2
- **Sprint 3:** Automating application deployment through Jenkins
- **Sprint 1: Developing Simple Spring boot application (Duration: 1 Day):**
Understanding the requirements and functionalities of the application, Developing simple spring application using spring boot in Eclipse and pushing the code to GitHub for version control.
- **Sprint 2: Setting up and installing required libraries in EC2 (Duration: 1 Day):**
Creating Amazon Linux 2 VM Instance in EC2 and downloading required libraries like java, maven, Jenkins etc.
- **Sprint 3: Automating application deployment through Jenkins: (Duration: 1 Day):**
Setting up Jenkins environment for automating deployment of spring boot application and creating job for it.

5. Core technologies used in the project

- **Springboot**
- **HTML**
- **Amazon EC2**
- **Jenkins**

6. GitHub Repository

The source code for the CI/CD Deployment for Spring boot Application can be found in the following GitHub repository: <https://github.com/Manoj-14/SpringBoot-CD-Cl.git>