**PHASE - V**

**Final Project Details**

Date: 29/04/2022

**Project Name:** CI/CD Deployment For Spring Boot Application

**Project Developed Language:** Java EE, yml, xml

**Frameworks:** Maven, Spring Boot, CI/CD

**Software Used:** Eclipse, VS Code, AWS, Github, Gitworks, Putty, Puttygen, VM

**Version Control & Remote Accessing:** GitHub

**Developer Details**

**Name:** Rajagopal Sai Krishna

**Employee Id:** 2499086

**GITHUB Repository Link:**

<https://github.com/SaiKrishna6699/sk-spring-aws.git>

**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.

**Background of the 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.

### Steps taken:

* A part of the source code should be tracked on the GitHub repository. You need to document the tracked files that are ignored during the final push to the GitHub repository.
* The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
* The step-by-step process involved in completing this task should be documented.

### Technology Used:

* Jenkins: To create a pipeline to deploy Docker.
* Eclipse: For spring boot development.
* AWS EC2/ Virtual machine.
* Ubuntu: To implement container networking.
* Git: To connect and push files from the local system to GitHub.
* GitHub: To store the Angular application.

## Execution:

* After change in git hub repo the Jenkins will run the build new project.
* After Successfully Deployment the Application will be show on 80 ports.
* And the ubuntu image can also be fetched from the docker hub to run the everywhere for development.