**CI/CD Deployment for Springboot Application**

**Spring boot Application is cloned from GitHub**: https://github.com/sonam-niit/springboot-docker.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.

**You must use the following:**

* Eclipse
* GitHub
* Jenkins
* AWS EC2/ Virtual machine

**Following requirements should be met:**

* 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:**

* Create and launch an **AWS** instance in our case we have taken ubuntu .
* Then setting up the console and connecting with the instance through **SSH** on mobaxterm**.**
* After that install docker through the command provided in the source code
* Then installing maven through the command provided in the source code
* Then installing **Jenkins** through the command provided in the source code
* After that cloning the Spring boot Application and creating an image on **docker hub**
* Run the image on container
* Now setting up the jenking configuration and install all the necessary plugins.
* Then go to manage Jenkins> manage plugins>install docker plugin to setup cloud and nodes
* Now setup cloud configuration to docker
* And Build a freestyle project and in this clone git repository
* Give tag name of the image and provide with the invoke command as clean **install**
* Apply and save the project
* Now build the project and Build success
* Application is live
* CI/CD pipeline continuous deployment and host the application on AWS EC2 instance