**CI/CD Deployment for Springboot Application.**

DESCRIPTION

**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.

**Following technologys have been used in this project :**

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

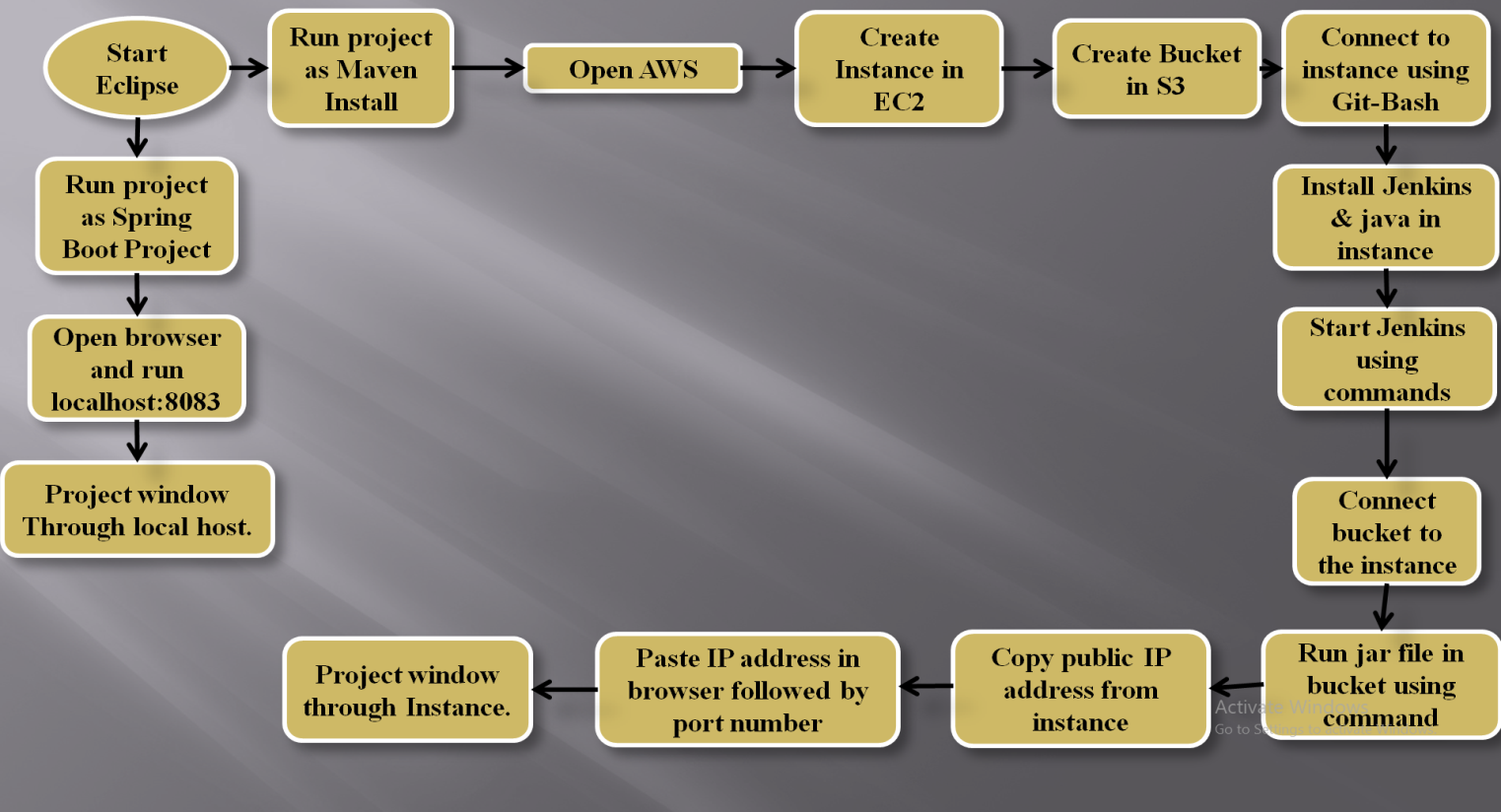
**Following requirements have been meet:**

* A part of the source code has been tracked on the GitHub repository. document the tracked files that are ignored during the final push to the GitHub repository.
* The step-by-step process involved in completing this task has been documented.

**Working**

* Open eclipse and run the project as spring boot application.
* Open browser and type local host :( port number) and now the application is running in the local host.
* To run the application in CI/CD run the project as maven install so it will create the project jar file in the project.
* Open AWS and create instance in EC2 & create bucket in S3.
* Make bucket public to accessibility
* Upload the project jar file in the bucket created in S3.
* Connect to instance using Git-Bash.
* Install Jenkins and java in instance using commands.
* Start the Jenkins to work on it.
* Connect bucket to instance to get the jar file of the project.
* Now run the project in instance using commands.
* Now copy the instance public IP address and paste it in the browser followed by port number.
* Now the project web page is displayed in the window and the project is running through instance.
* Now any one can run our project using this IP address followed by port number in any device.

**Flow Chart**

****