CI/CD Deployment for SpringBoot Application.

(Source Code)

Developer: *Tushar Khillare*

- ## Version History:

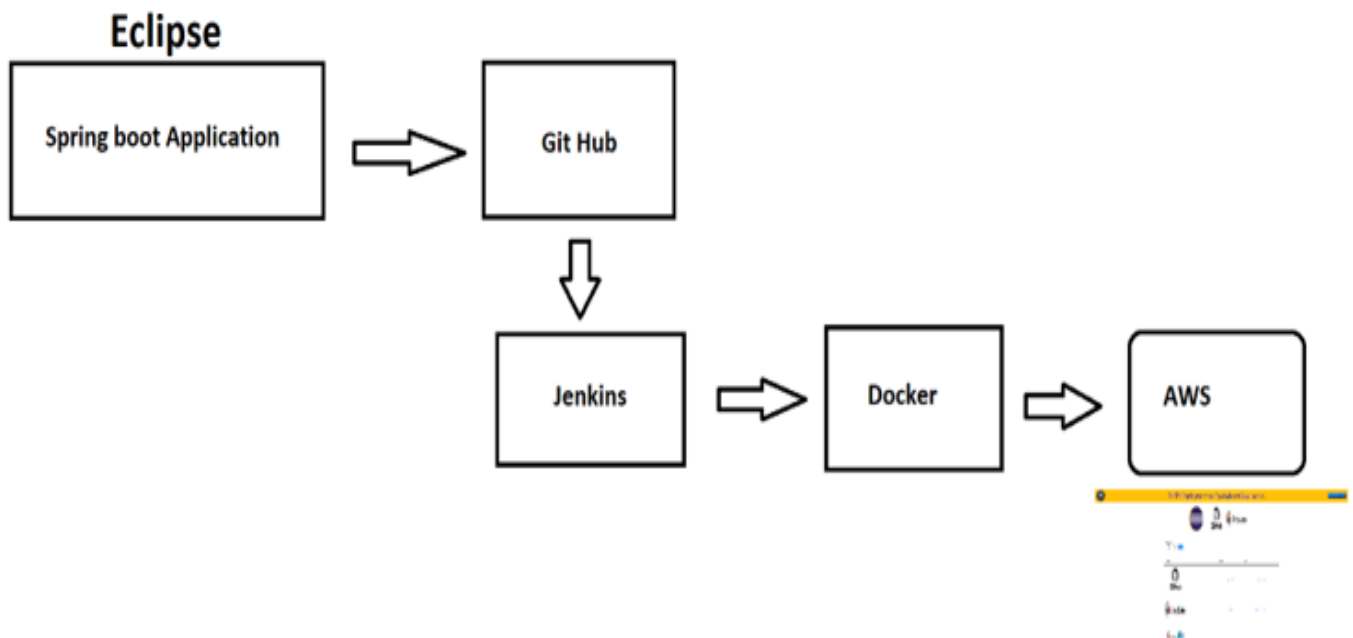|		
1.	**Author Name**	**Tushar Ashok Khillare.**
2.	**Purpose**	Source Code.
3.	**Date**	19 January 2022.
4.	**Version**	1.0
5.	**Contact**	*tusharkhillare2015@gmail.com*

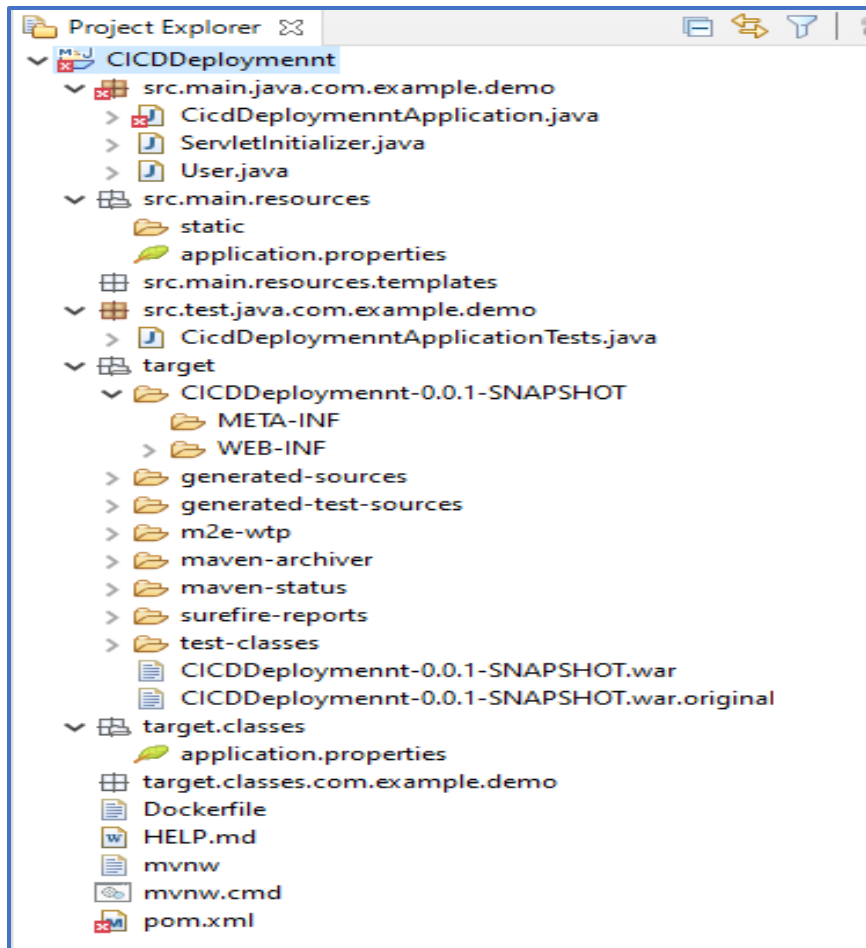# Contents.

1. GitHub Link

Repository Name	Phase-5-CI-CD-Deployment
GitHub Link	https://github.com/tuskhillare/Phase-5-CI-CD-Deployment.git

- *Host server app to view the deployed application:*
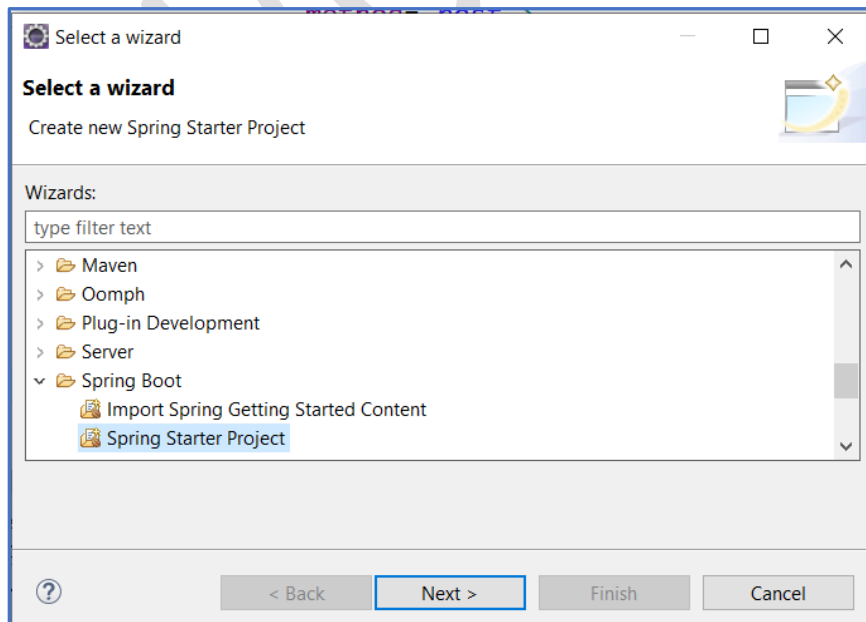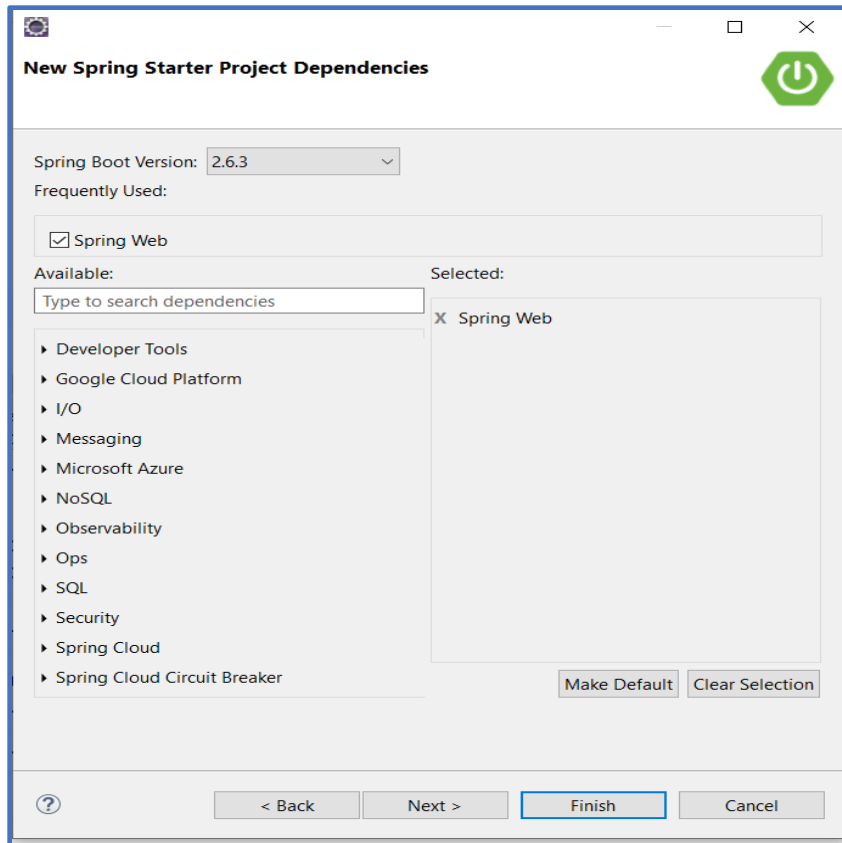 *http://3.91.182.20:7000/*
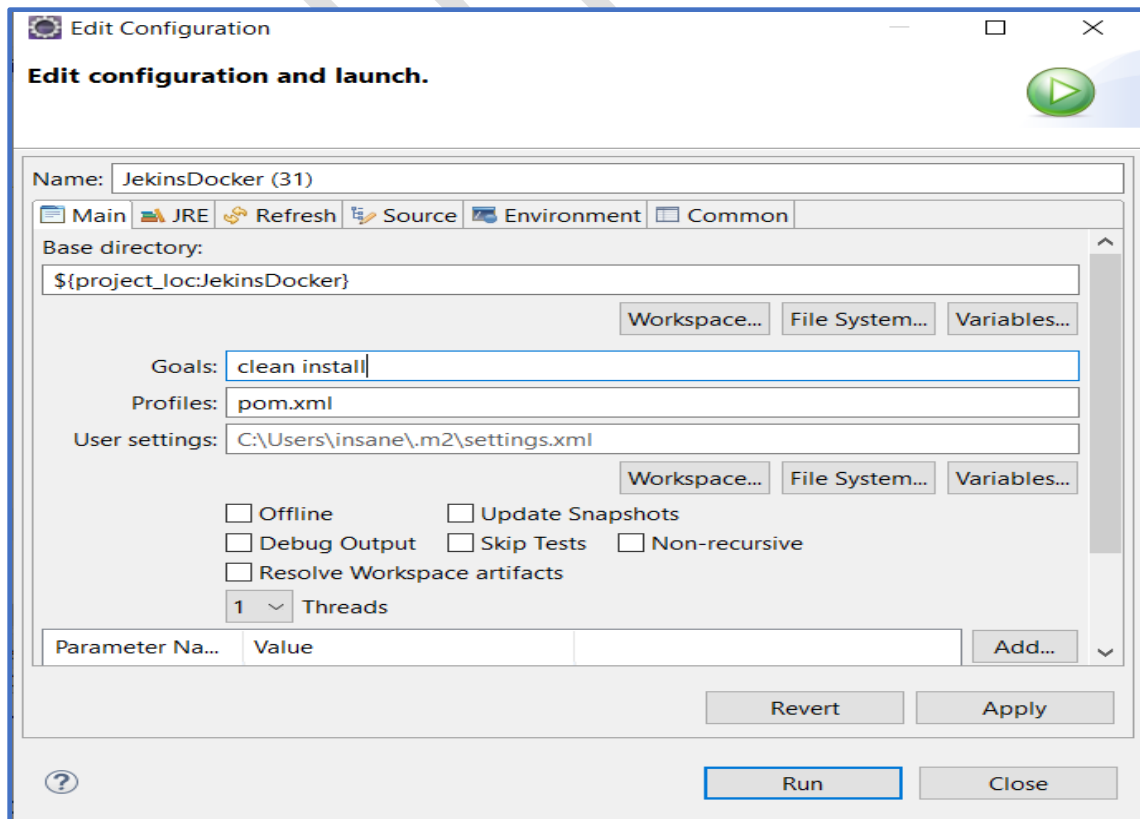
2. Flow Chart.

3. Folder Structure.

• In Eclipse create a new project by choosing File > New > Spring Starter Project.

• The Configure your new project as a Spring Web and finish

- After programming the Spring Boot Application using maven to build the WAR file.

4. Project Files.

a. Docker File.

```
Dockerfile    User.java    application.properties    CICDDeploymennt-0.0.1-SNAPSHOT.war

1 FROM openjdk:8
2 EXPOSE 8087
3 ADD target/CICDDeploymennt-0.0.1-SNAPSHOT.war CICDDeploymennt-0.0.1-SNAPSHOT.war
4 ENTRYPOINT ["java","-jar","/CICDDeploymennt-0.0.1-SNAPSHOT.war"]
```

b. Users.java

```
User.java    Dockerfile    application.properties    CICDDeploymennt-0.0.1-SNAPSHOT.war

1  package com.example.demo;
2
3  import org.springframework.stereotype.Controller;
6
7  @Controller
8  public class User {
9
10     @ResponseBody
11     @RequestMapping("/")
12 public String  init ()
13     {
14
15         return "CI-CD Deployment using Jenkins+Docker into AWS EC2.Developed by Tushar Khillare";
16
17     }
18
19 }
```

c. Application Properties

```
application.properties
1 server.port=7000
2
```

d. Pom.xml

```xml
CICDDeploymennt/pom.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6         <groupId>org.springframework.boot</groupId>
7         <artifactId>spring-boot-starter-parent</artifactId>
8         <version>2.6.3</version>
9         <relativePath/> <!-- lookup parent from repository -->
10    </parent>
11    <groupId>com.example</groupId>
12    <artifactId>CICDDeploymennt</artifactId>
13    <version>0.0.1-SNAPSHOT</version>
14    <packaging>war</packaging>
15    <name>CICDDeploymennt</name>
16    <description>Demo project for Spring Boot</description>
17    <properties>
18        <java.version>1.8</java.version>
19    </properties>
20    <dependencies>
21        <dependency>
22            <groupId>org.springframework.boot</groupId>
23            <artifactId>spring-boot-starter-web</artifactId>
24        </dependency>
25        <dependency>
26            <groupId>org.springframework.boot</groupId>
27            <artifactId>spring-boot-starter-tomcat</artifactId>
28            <scope>provided</scope>
29        </dependency>
30        <dependency>
31            <groupId>org.springframework.boot</groupId>
32            <artifactId>spring-boot-starter-test</artifactId>
33            <scope>test</scope>
34        </dependency>
35    </dependencies>
36
37    <build>
38        <plugins>
39            <plugin>
40                <groupId>org.springframework.boot</groupId>
41                <artifactId>spring-boot-maven-plugin</artifactId>
42            </plugin>
43        </plugins>
44    </build>
45
46 </project>
```

Thank You……………