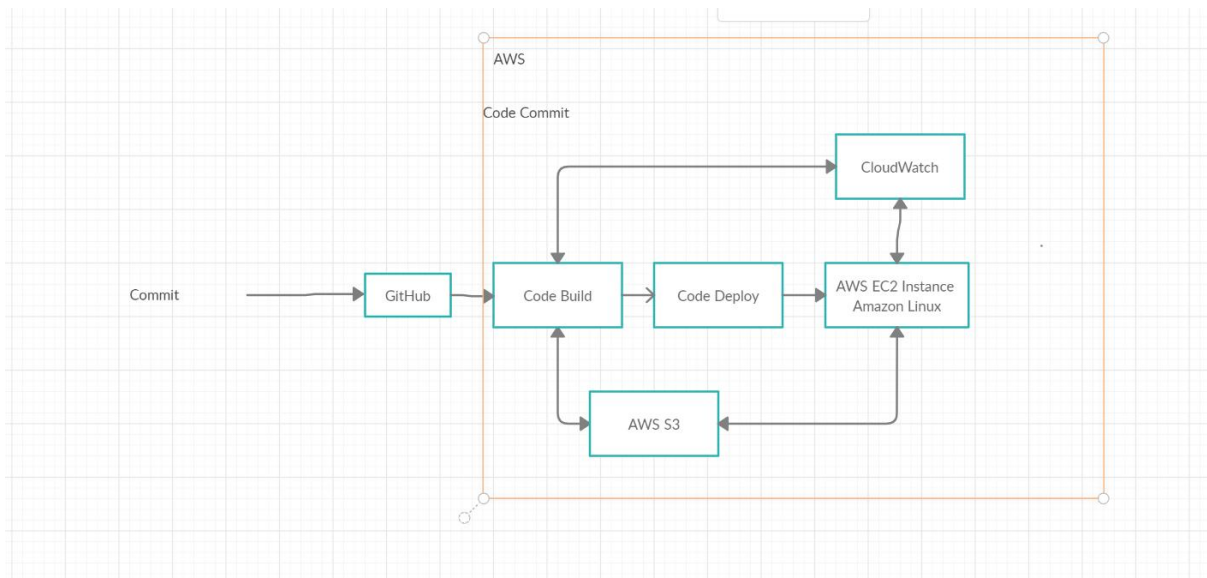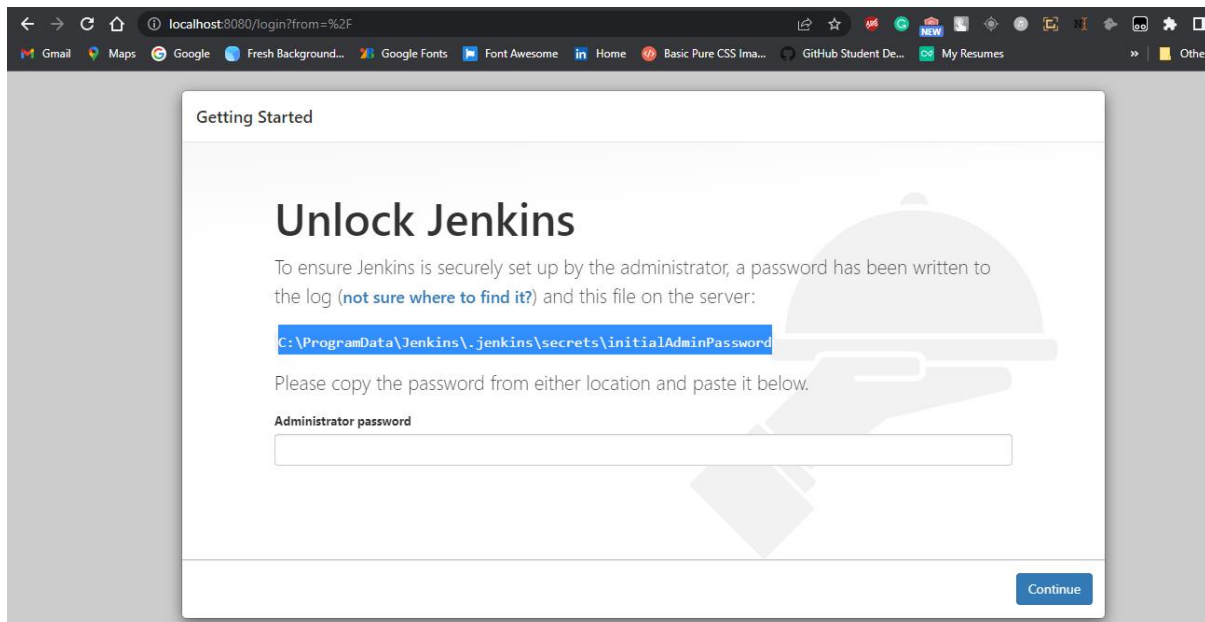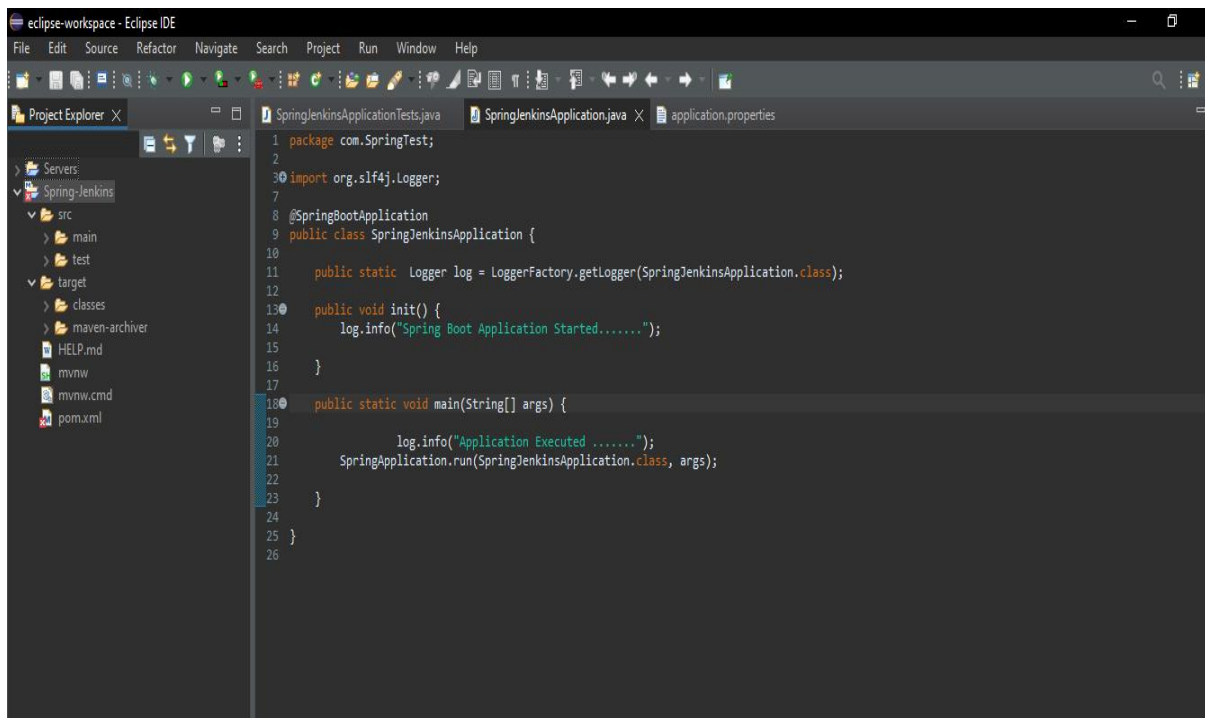# Phase 5 project
CI/CD Deployment for Springboot Application

OUPUTS:

Flow chart:

Eclipse

1. I create Simple Spring boot Application to build a CI/CD pipeline to demonstrate continuous deployment:

```
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\ hi \.m2\repository\com\ci\cd-
dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\ hi \.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-
0.0.1-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO] ------------------------------------------------------------------------
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS
```

```
18:30:45.729 [main] DEBUG org.springframework.test.context.support.TestPropertySourceUtils - Adding inlined properties to environment:
{spring.jmx.enabled=false, org.springframework.boot.test.context.SpringBootTestContextBootstrapper=true}

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 :: Spring Boot ::                (v2.5.4)

2022-05-02 18:30:47.111  INFO 15660 --- [           main] com.testAuth.SpringCiCdApplicationTests  : Starting SpringCiCdApplicationTests using Java
11.0.12 on DESKTOP-LBUFTMI with PID 15660 (started by Dell in C:\Users\ hi\.jenkins\workspace\Testing Spring Jenkins)
2022-05-02 18:30:47.123  INFO 15660 --- [           main] com.testAuth.SpringCiCdApplicationTests  : No active profile set, falling back to default
profiles: default
2022-05-02 18:30:54.842  INFO 15660 --- [           main] com.testAuth.SpringCiCdApplicationTests  : Started SpringCiCdApplicationTests in 9.085 seconds
(JVM running for 12.535)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.737 s - in com.testAuth.SpringCiCdApplicationTests
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ Auth ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
```

Jenkins : Run Jenkins

CREATE THREE JENKINS PROJECT DEPLOYMENT:-

DEPLOYMENT-TESTING-PRODUCTION

```
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[INFO] Using 'UTF-8' encoding to copy filtered properties files.
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[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\ hi \.m2\repository\com\ci\cd-
dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\ hi \.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\ hi \.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-
0.0.1-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO] ------------------------------------------------------------------------
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS
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{spring.jmx.enabled=false, org.springframework.boot.test.context.SpringBootTestContextBootstrapper=true}

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 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
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 :: Spring Boot ::                (v2.5.4)

2022-05-02 18:30:47.111  INFO 15660 --- [           main] com.testAuth.SpringCiCdApplicationTests  : Starting SpringCiCdApplicationTests using Java
11.0.12 on DESKTOP-LBUFTMI with PID 15660 (started by Dell in C:\Users\ hi \.jenkins\workspace\Testing Spring Jenkins)
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[INFO] Using 'UTF-8' encoding to copy filtered properties files.
```

Final Output:-

Last **host the application on AWS EC2 instance:**

← → C | ⚠ Not secure | ec2-18-221-78-17.us-east-2.compute.amazonaws.com:7878

Apps ⬤ https://www.facebo... ⬇ Downloads G http://www.google... ⬤ Register L LinkGrand ⟲ History ⬤ Elance: Inbox ⬤ All Jobs | Elance ⬤ Share Market India:...

Welcome To Spring Boot CI-CD deployment