Certification Project – Insure Me

Insurance Domain

✦ Using Git - For version control for tracking changes in the code files and uploading the code to git hub repo.

```
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents
$ git clone https://github.com/StarAgileDevOpsTraining/star-agile-insurance-project.git
Cloning into 'star-agile-insurance-project'...
remote: Enumerating objects: 160, done.
remote: Counting objects: 100% (160/160), done.
remote: Compressing objects: 100% (89/89), done.
remote: Total 160 (delta 48), reused 155 (delta 48), pack-reused 0
Receiving objects: 100% (160/160), 19.82 MiB | 1.12 MiB/s, done.
Resolving deltas: 100% (48/48), done.

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents
$ ls
 AD_Port                                  'New folder'/
'Custom Office Templates'/                'Scanned Documents'/
 Exprienc.pdf                             'WhatsApp Image 2023-09-16 at 15.47.20.jpg'
 Fax/                                     'WhatsApp Image 2023-09-16 at 15.48.15.jpg'
 IMG_20230824_165931.jpg                  'WhatsApp Image 2023-09-16 at 15.49.05.jpg'
'Kubernetes Assignment -1 Arman Baig.docx'  desktop.ini
'Kubernetes Assignment -1 Chinmay G Bhat.docx' 'income caste.pdf'
'Kubernetes Assignment -2 Arman baig.pdf'  insureproject/
'Kubernetes Assignment -2 Chinmay G Bhat.docx' 'kpsc form.pdf'
'My Music'@                               'sslc marks card.pdf'
'My Pictures'@                            'sslc marks card_1.jpg'
'My Videos'@                               star-agile-insurance-project/

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents
$ cd insureproject
```

✦ Initializing the git repository in the local machine .

```
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
$ ls -al
total 18
drwxr-xr-x 1 LENOVO 197121    0 Oct  4 18:48 ./
drwxr-xr-x 1 LENOVO 197121    0 Oct  4 18:47 ../
-rw-r--r-- 1 LENOVO 197121  439 Oct  4 18:46 .gitignore
drwxr-xr-x 1 LENOVO 197121    0 Oct  4 18:48 .mvn/
-rw-r--r-- 1 LENOVO 197121  361 Oct  4 18:46 README.md
-rw-r--r-- 1 LENOVO 197121 1809 Oct  4 18:46 pom.xml
drwxr-xr-x 1 LENOVO 197121    0 Oct  4 18:48 src/

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
$ ls
README.md  mvnw*  mvnw.cmd  pom.xml  src/

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
$ git init
Initialized empty Git repository in C:/Users/LENOVO/Documents/insureproject/.git/
```

🔸 Performing git add to send the code to staging area.

```
MINGW64:/c/Users/LENOVO/Documents/insureproject

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git add .

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git commit -m "commited code"
[master (root-commit) 29b85c5] commited code
 45 files changed, 18725 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 .mvn/wrapper/maven-wrapper.jar
 create mode 100644 .mvn/wrapper/maven-wrapper.properties
 create mode 100644 README.md
 create mode 100644 mvnw
 create mode 100644 mvnw.cmd
 create mode 100644 pom.xml
 create mode 100644 src/main/java/com/project/staragile/insureme/InsureMeApplication.java
 create mode 100644 src/main/java/com/project/staragile/insureme/Policy.java
 create mode 100644 src/main/java/com/project/staragile/insureme/PolicyController.java
 create mode 100644 src/main/java/com/project/staragile/insureme/PolicyRepository.java
 create mode 100644 src/main/java/com/project/staragile/insureme/PolicyService.java
 create mode 100644 src/main/resources/application.properties
 create mode 100644 src/main/resources/static/about.html
 create mode 100644 src/main/resources/static/contact.html
 create mode 100644 src/main/resources/static/css/bootstrap.css
 create mode 100644 src/main/resources/static/css/font-awesome.min.css
 create mode 100644 src/main/resources/static/css/responsive.css
 create mode 100644 src/main/resources/static/css/style.css
 create mode 100644 src/main/resources/static/css/style.css.map
 create mode 100644 src/main/resources/static/css/style.scss
 create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.ttf
 create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.woff
 create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.woff2
 create mode 100644 src/main/resources/static/images/about-bg.jpg
 create mode 100644 src/main/resources/static/images/about-img.jpg
 create mode 100644 src/main/resources/static/images/about-img2.jpg
 create mode 100644 src/main/resources/static/images/b1.jpg
 create mode 100644 src/main/resources/static/images/b2.jpg
 create mode 100644 src/main/resources/static/images/b3.jpg
```

🔸 Pushing code from local to git hub repository.

```
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git remote add origin https://github.com/arman-cpu/insureproject.git

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git branch -M main

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (main)
$ git push -u origin main
Enumerating objects: 69, done.
Counting objects: 100% (69/69), done.
Delta compression using up to 4 threads
Compressing objects: 100% (57/57), done.
Writing objects: 100% (69/69), 1.43 MiB | 510.00 KiB/s, done.
Total 69 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/arman-cpu/insureproject.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (main)
$
```
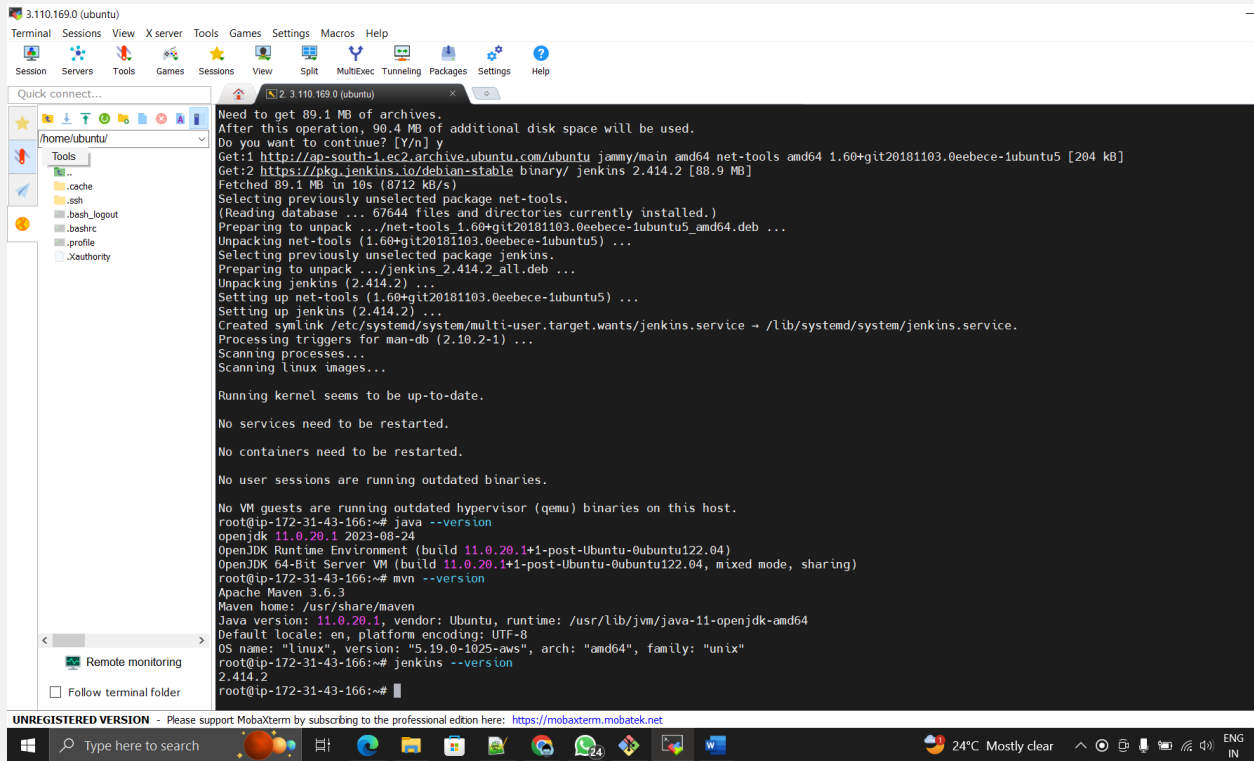
➕ Verifying the source code got pushed to git hub.
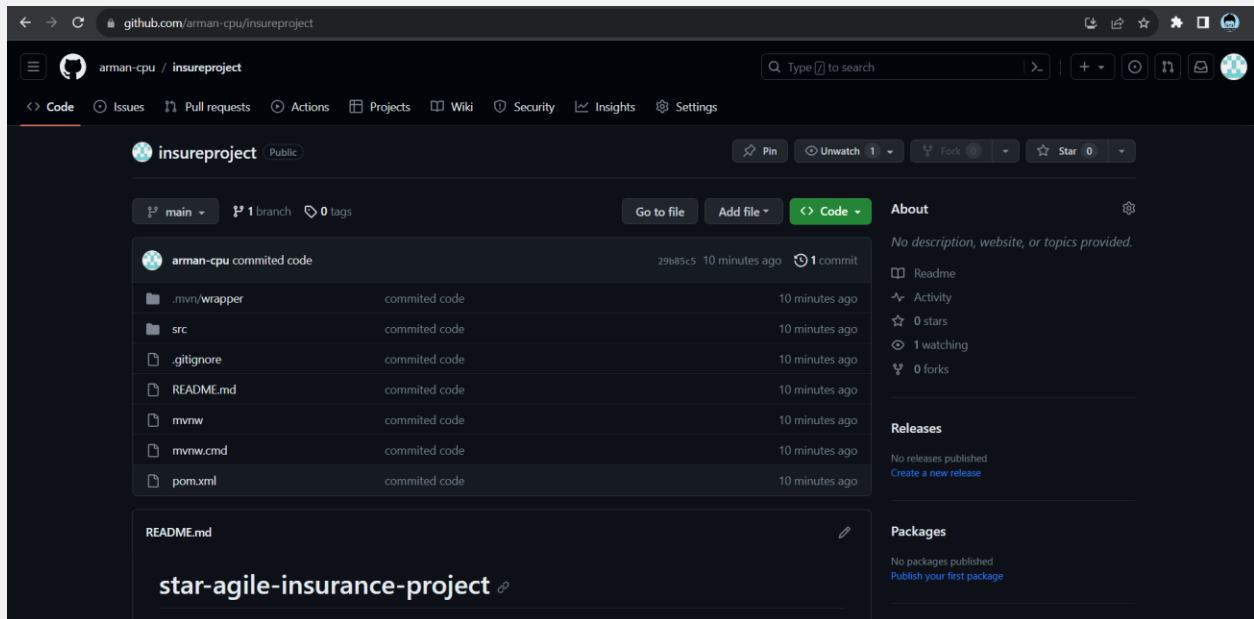
➕ Creating a Ec2 instance of type t2-medium of 25gb
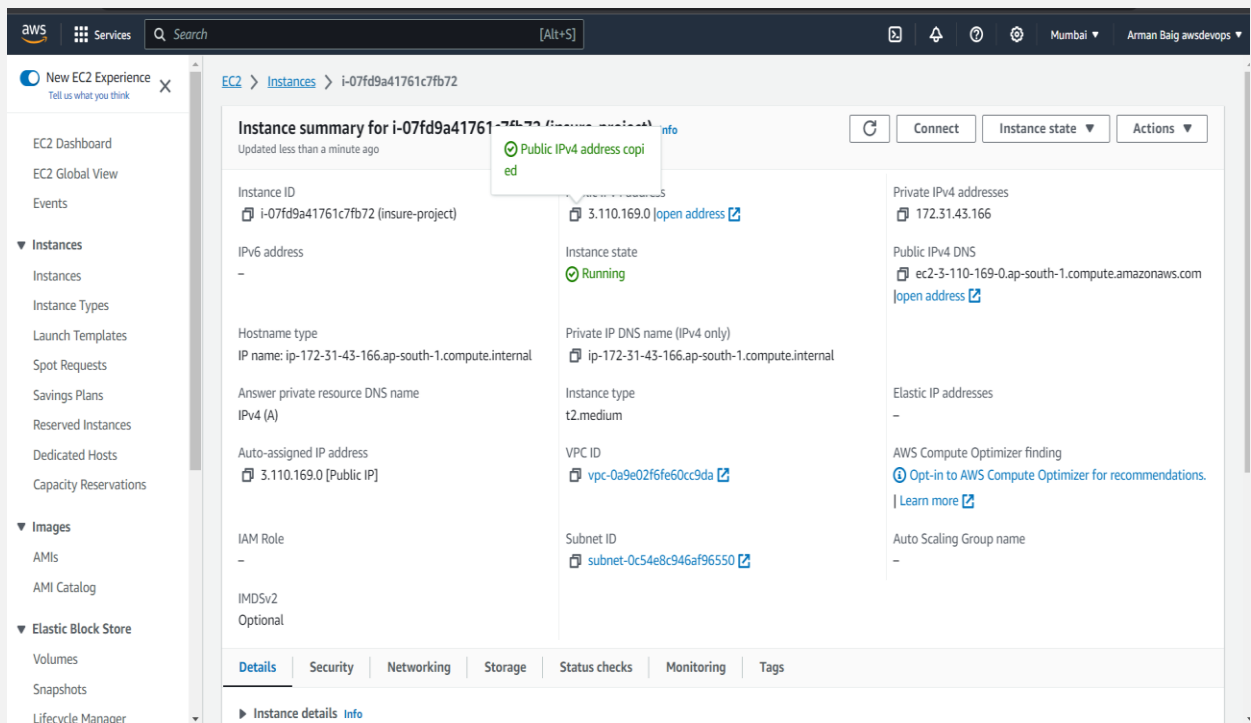
Installing JAVA , MAVEN and jenkins in ec2 instance .

Launching jenkins on port 8080 by installing recquired plugins .
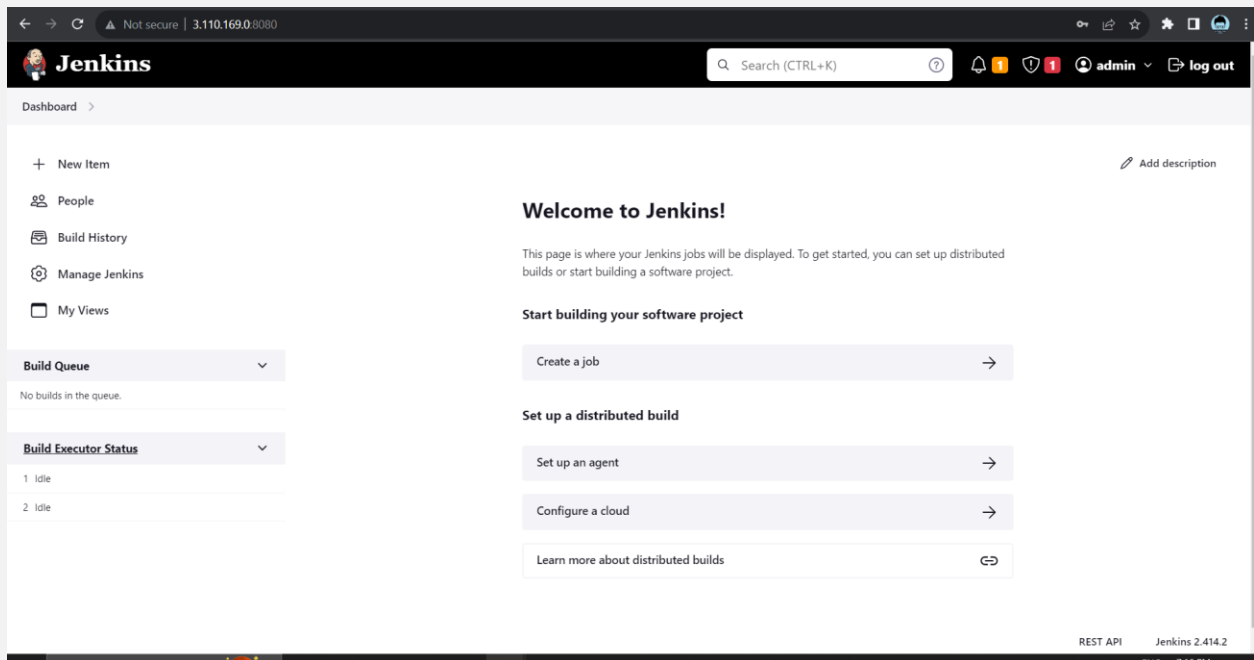
* Integrating the java and jenkins by adding the path in jenkins portal
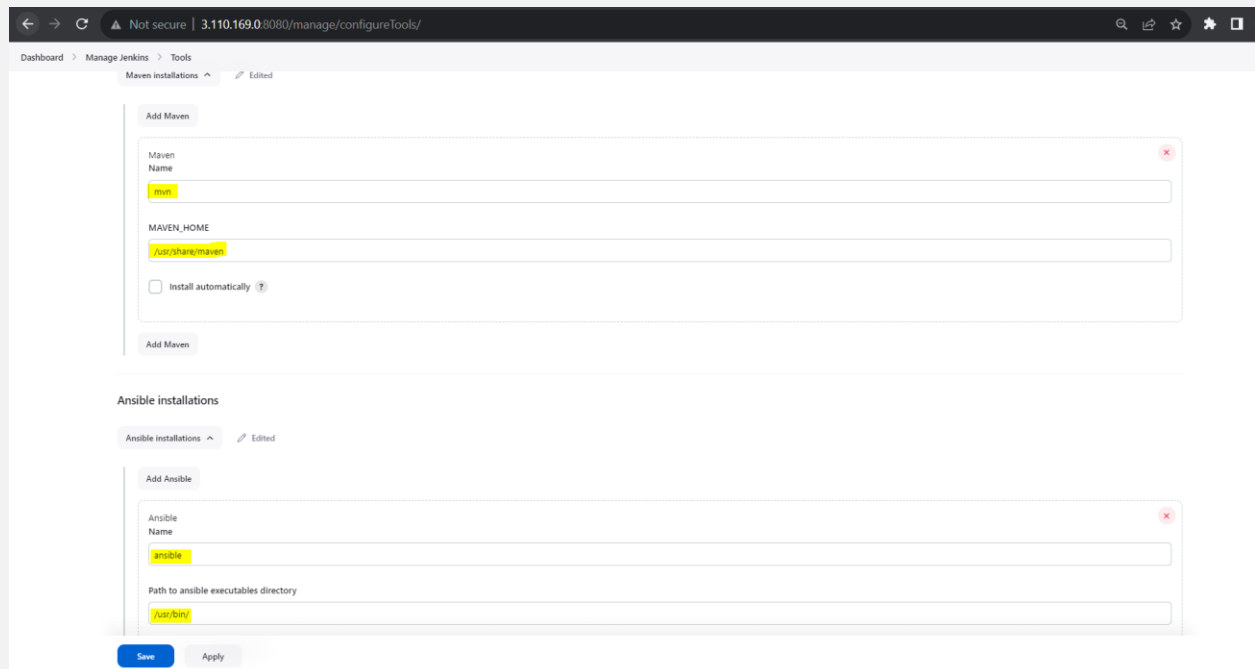
* Integrating the maven,ansible and jenkins by adding the path in jenkins portal

🔸 Integrating the Git Hub and jenkins by adding the path in jenkins portal

🔸 Creating a dummy job to test & verifying that everything is fine to proceed further .

✚ Creating another machine to deploy our code and will install docker in it .
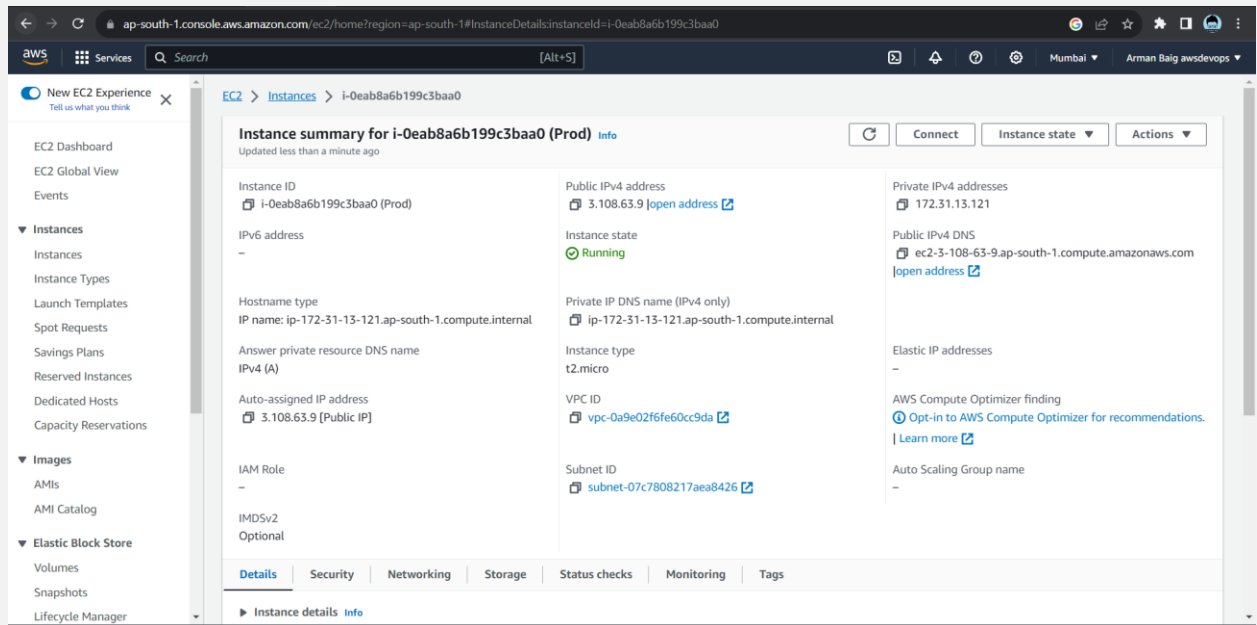
✚ Created a Docker file in the local and pushed to the git hub.
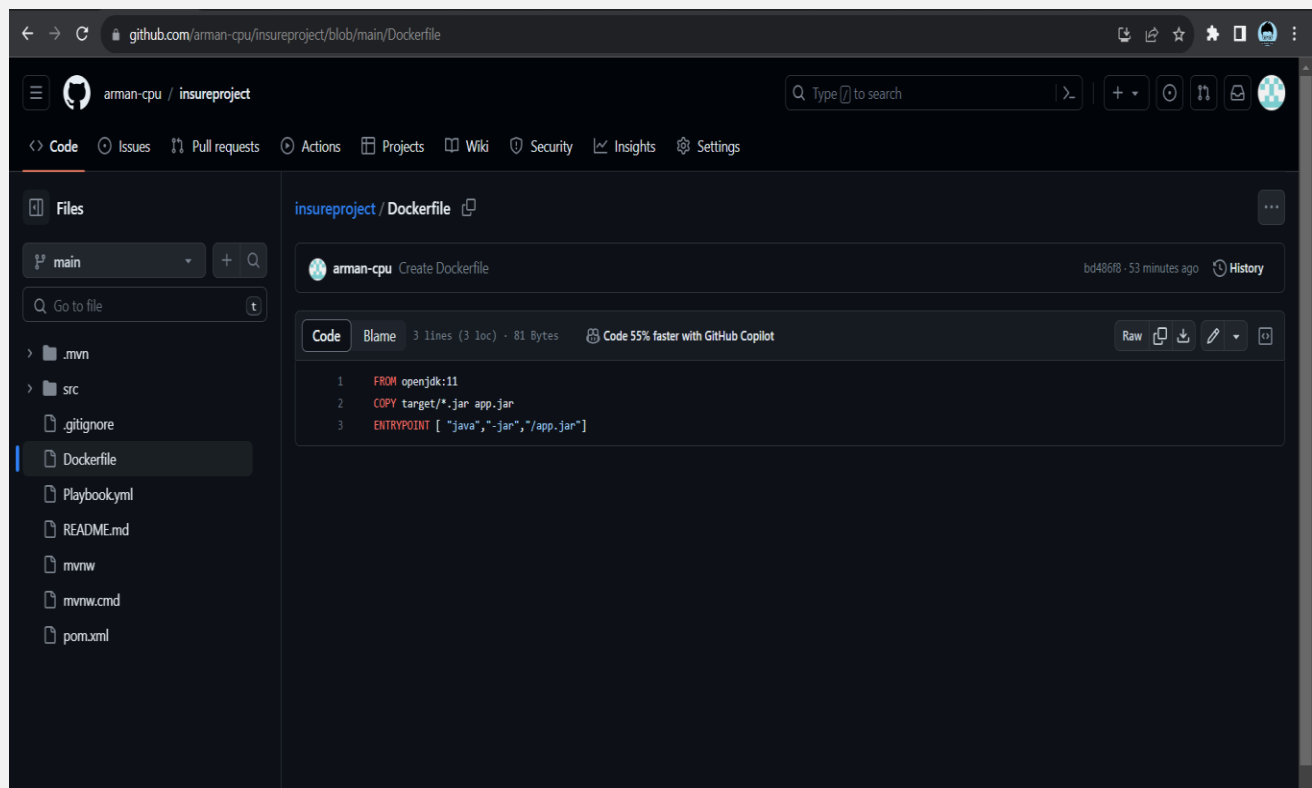
✦ Integrating docker hub with jenkins by providing docker hub credentials

✦ Created a ansible playbook in local and pushed to github repo in name Playbook.yml .

✚ Writing pipeline script to execute the jobs without interruption.

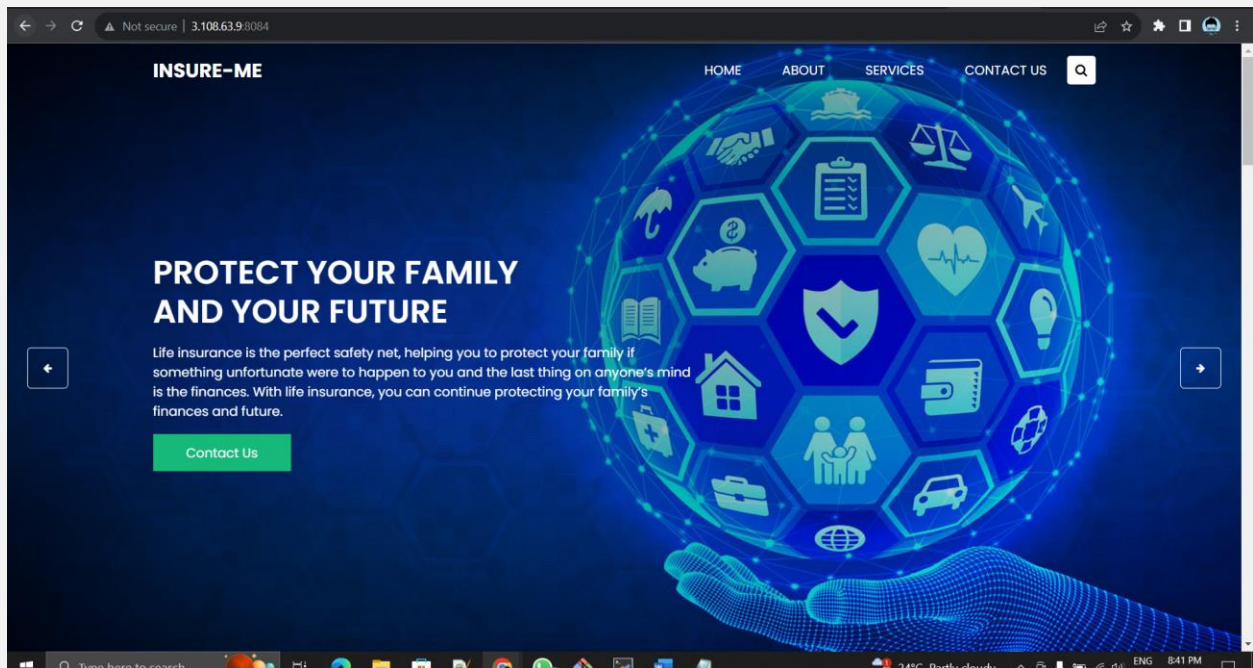✚ Executing the job after everything is setup and verifying everything is working fine.

➕ Stage view of the job which are being built.
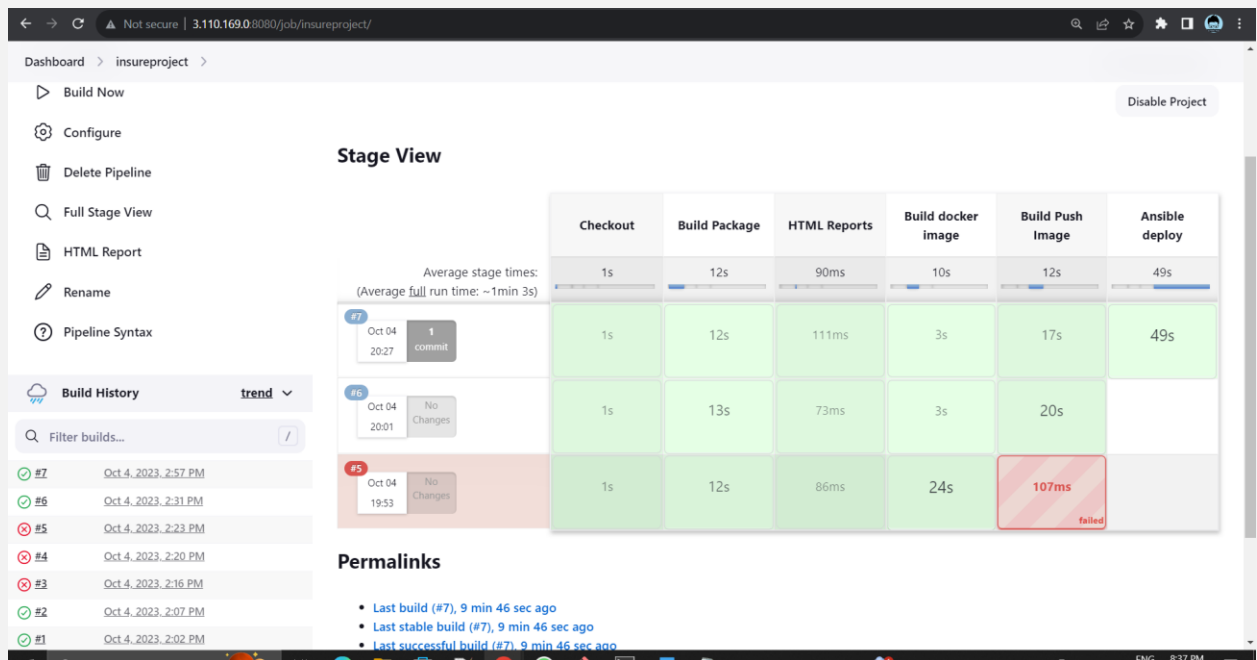
➕ Verifying the docker is installed by checking its version and verifying the code has pulled image from docker Hub.
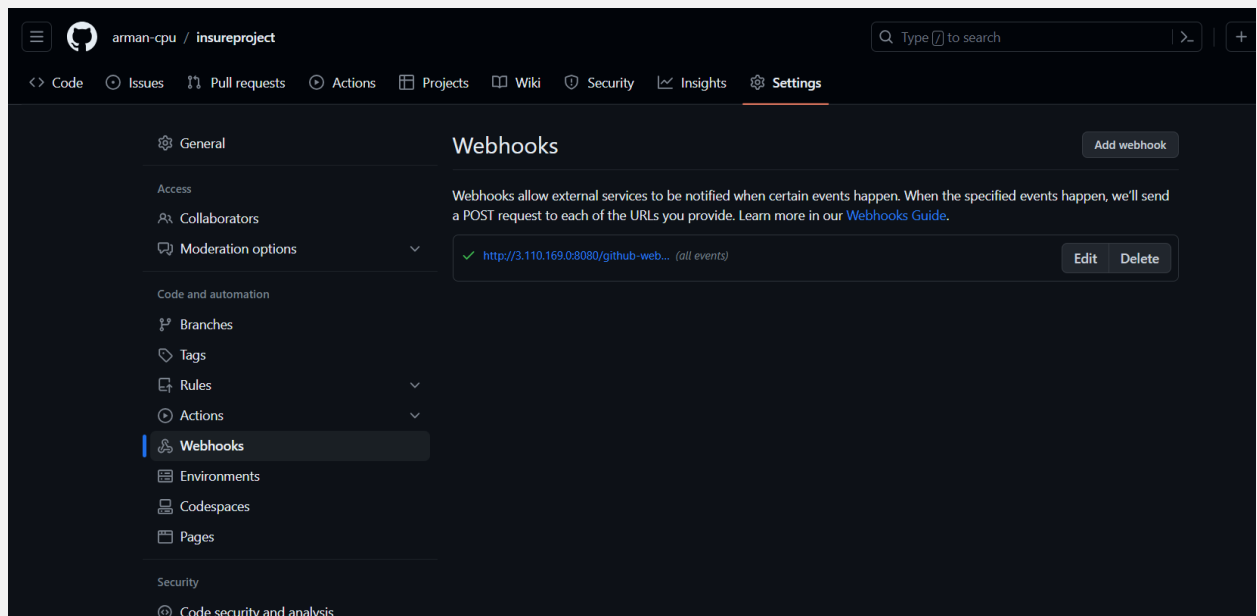
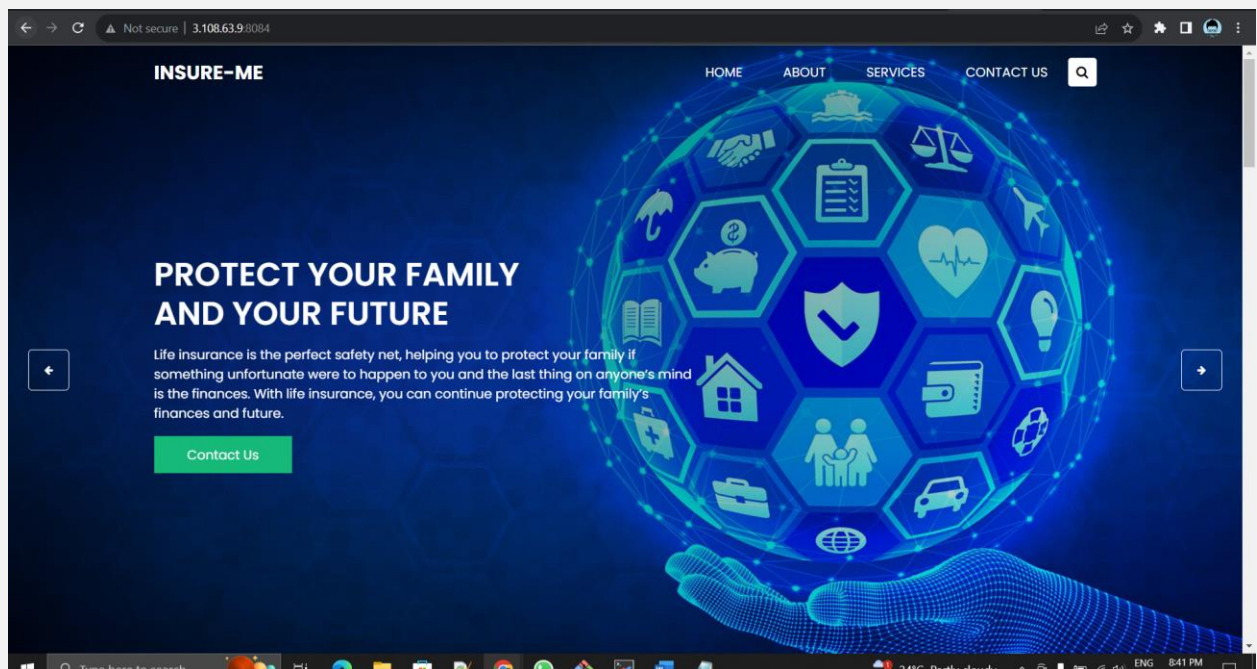➕ Verifying our project is up and running by launching it in browser.

➕ Integrating webhooks to our project by adding our webapp address to github.
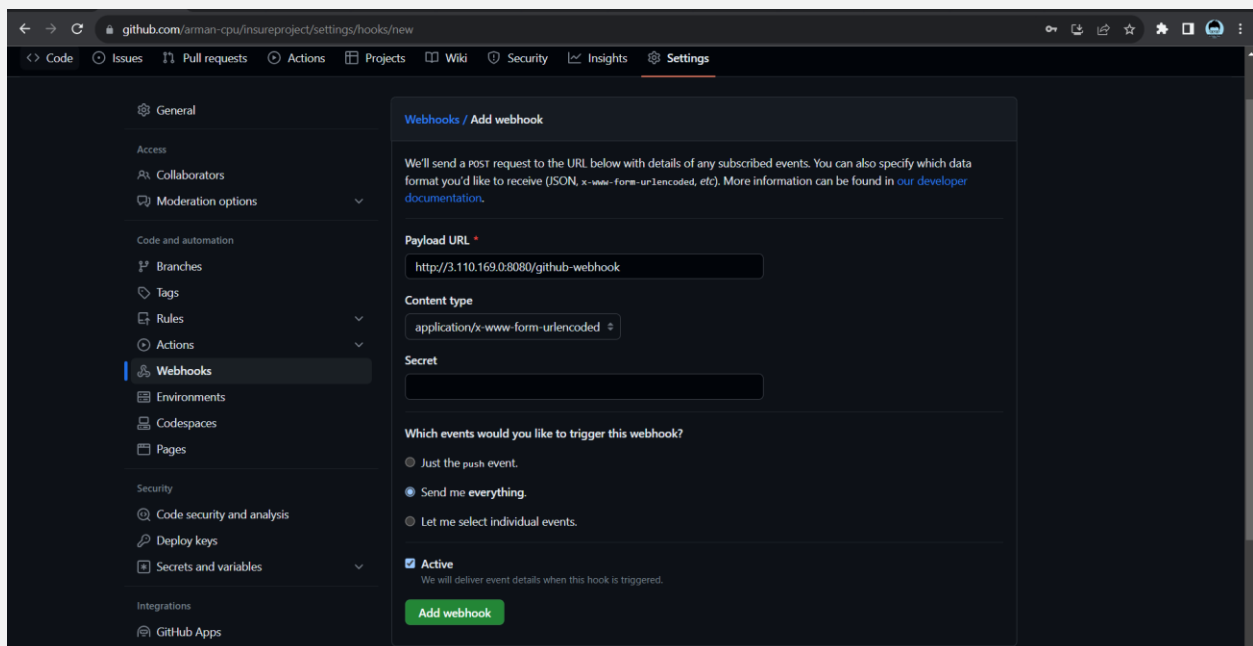
✚ Successfully added webhooks to our webapp.

✚ Testing our project using selenium test cases.

➕ Writing the test cases for project

Thank you