Certification Project - Insure Me

Insurance Domain

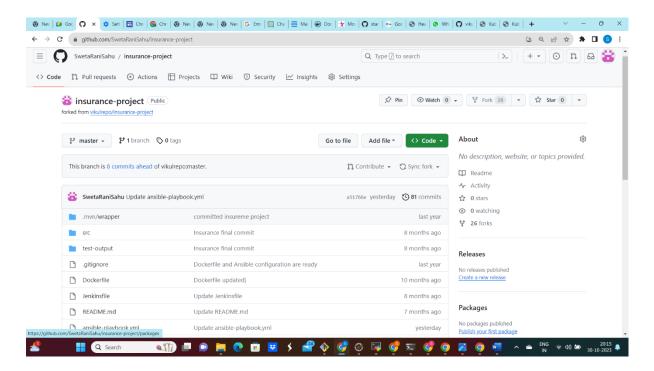
Name: -Sweta Rani Sahu

Date of Submission: -30.10.2023

For this project I used following: -

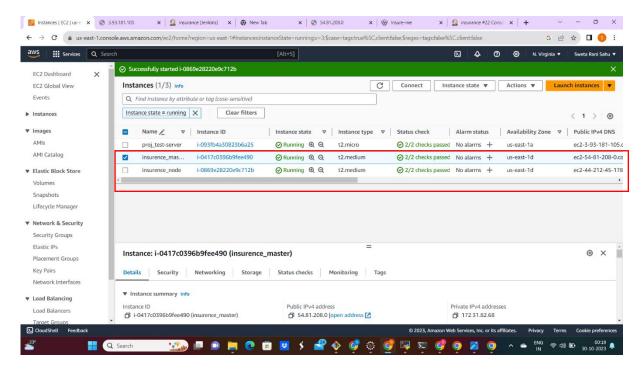
- ✓ Git For version control for tracking changes in the code files
- ✓ Jenkins For continuous integration and continuous deployment
- √ Docker For deploying containerized applications
- √ Ansible Configuration management tools
- ✓ Selenium For automating tests on the deployed web application
- \checkmark AWS: For creating ec2 machines as servers and deploy the web application.

I have used git for version controlling:-

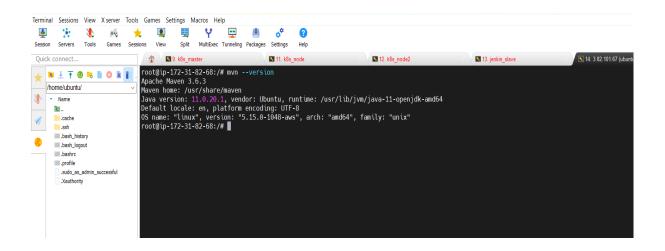


I have used Jenkins - For continuous integration and continuous deployment

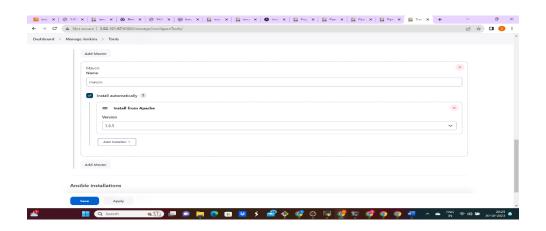
Configured Jenkins Master and Jenkins Slave node. Created 2 EC2 instances. Jenkins Master and Jenkins Slave. Installed required software on Jenkins Master and Slave.



Installed Maven in master Jenkins

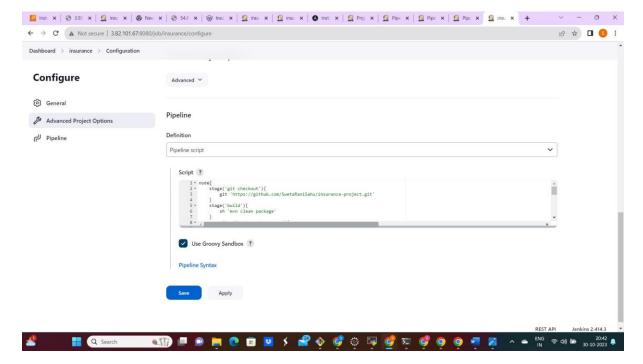


Add the maven plugin in Jenkins Master and configure the maven tool under tools in Jenkins master to point the maven application path.

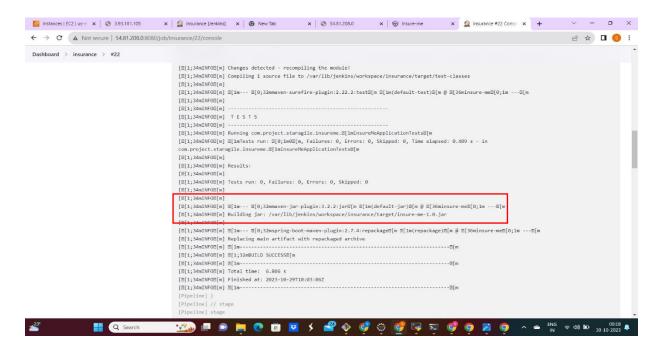


Wrote the Pipeline script to build the application.

- 1. Stage 1: SCM checkout where we get the code from GitHub repository.
- 2. Stage 2: Building package where we use maven clean and package to build the application artifacts.

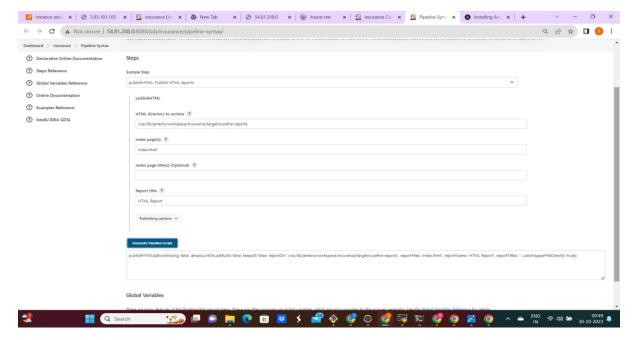


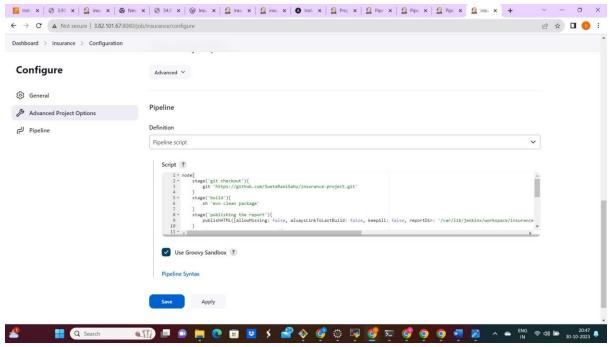
Jar/Artifacts build successfully.



3. Stage 3: Publish HTML reports.

Install HTML publisher. Add a stage publish HTML reports. Use syntax generator.

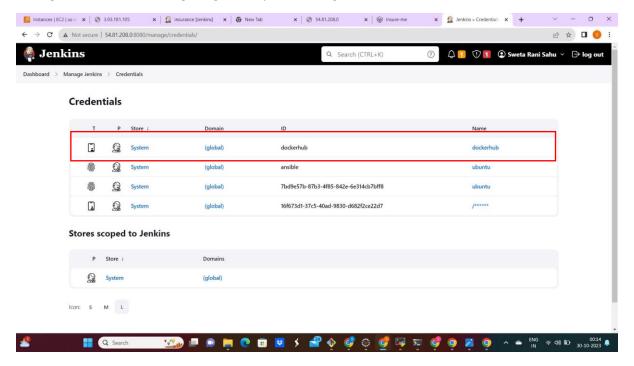


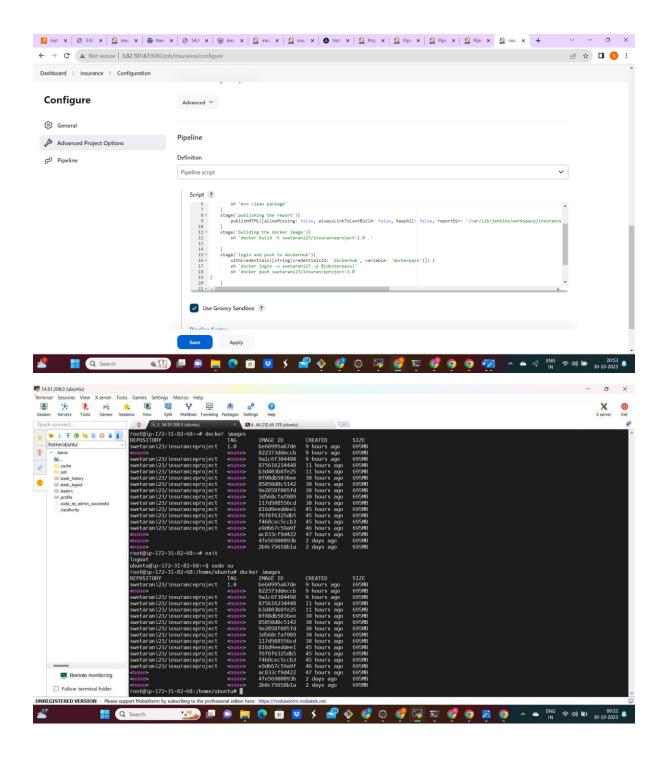


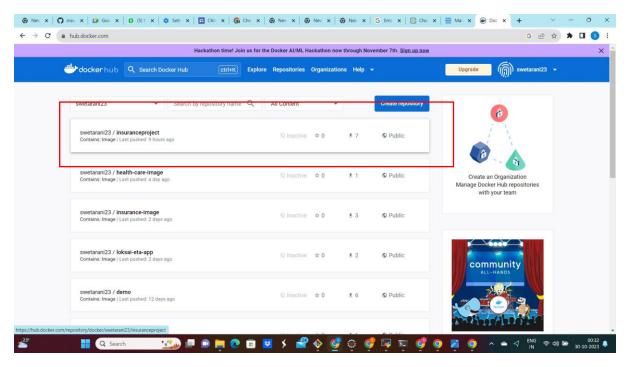
Docker - For deploying containerized applications

Create Docker Hub account. Create docker hub account token. Add docker hub account details and token

4. Stage 4: Build docker image, login and publish image to Docker Hub.



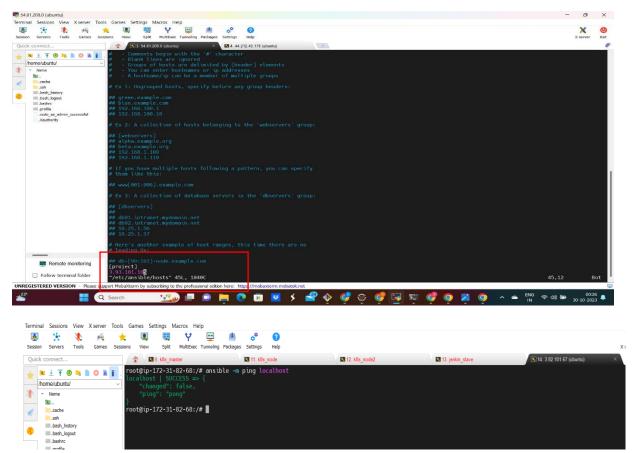




Ansible - Configuration management tools

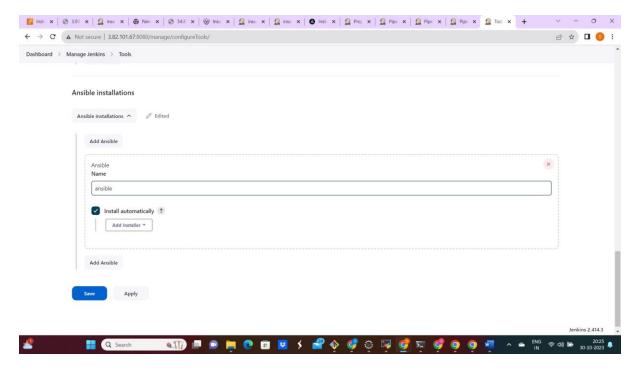
Installed Ansible inside master Jenkins. And created another Ec2 instance as Test-server for deployment.

Added the public ip of test- server in /etc/Ansible/hosts in Ansible. check the connection is working by using the ping command from Ansible

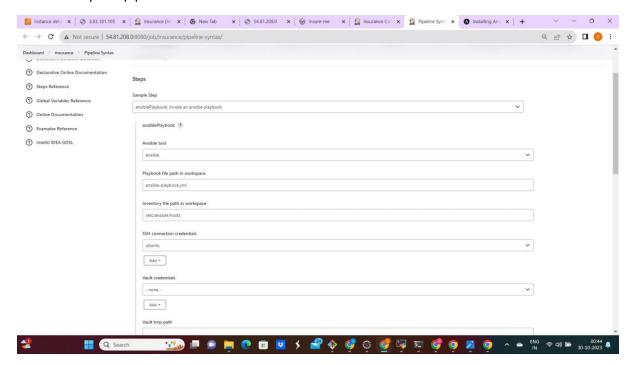


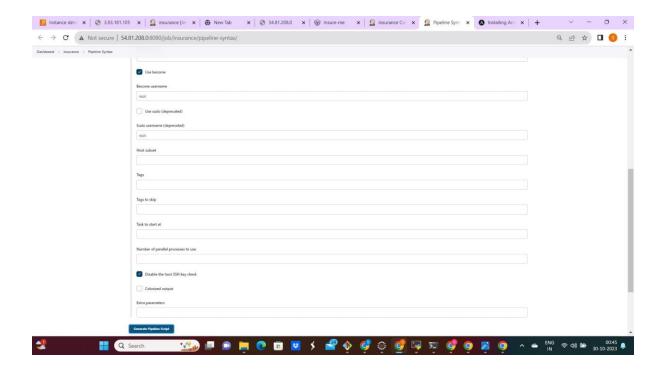
Once the connection setup is done add the Ansible plugin in Jenkins Master. Go to tools and configure

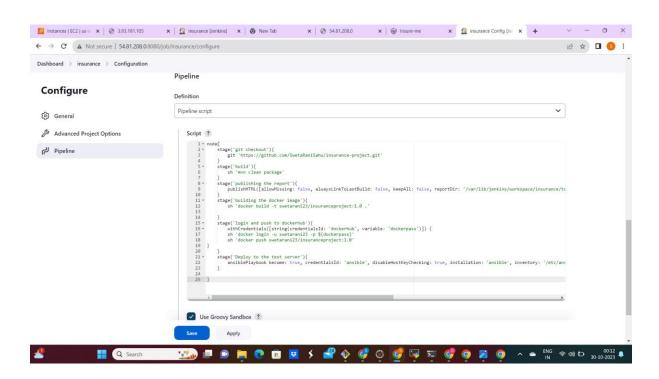
Ansible tool in Jenkins Master.



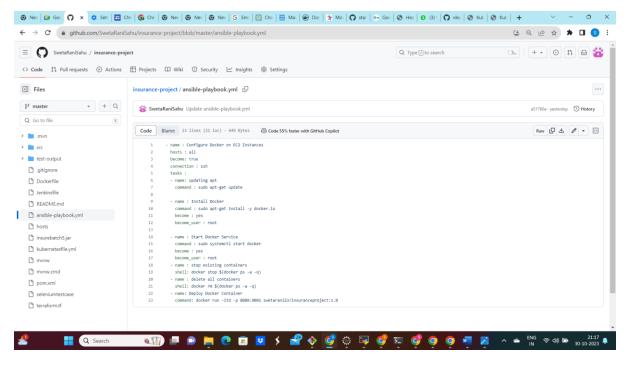
Create the syntax pipeline for Ansible.



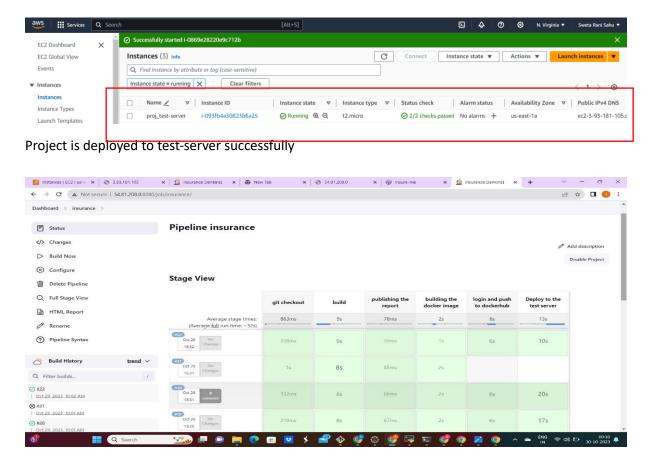


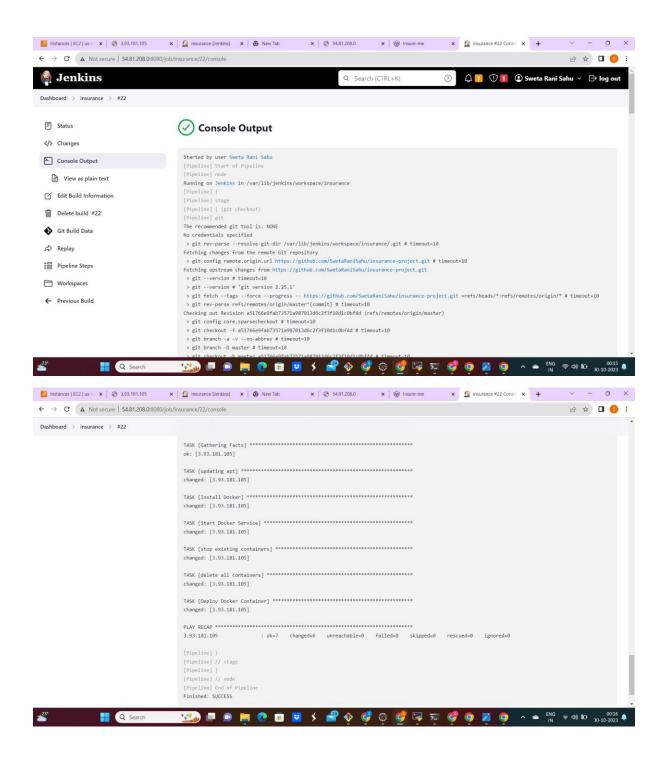


The ansible playbook file ansible-playbook.yml is: -



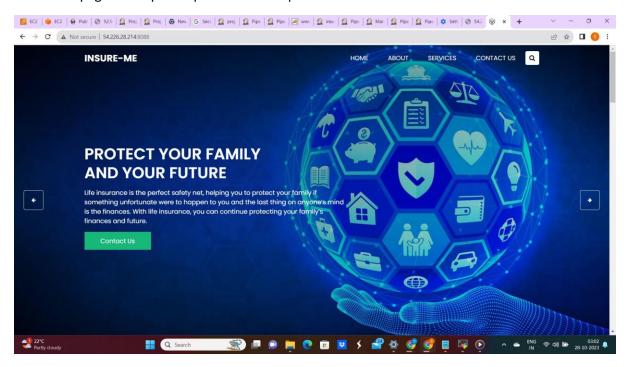
I deployed my application to this test-server.

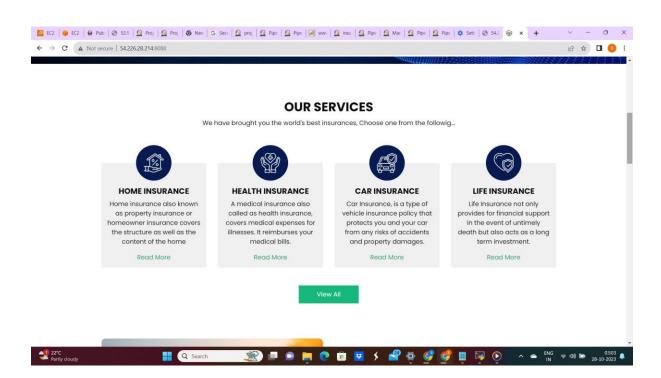


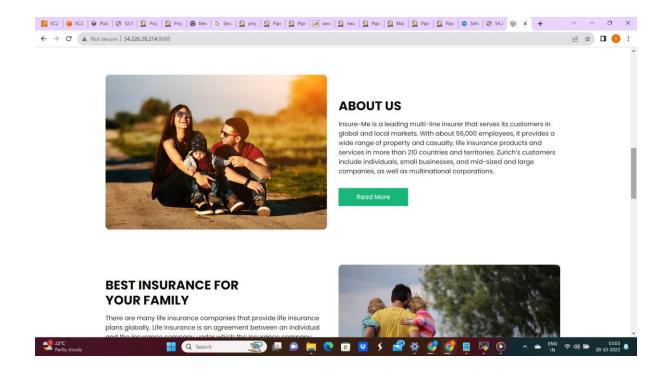


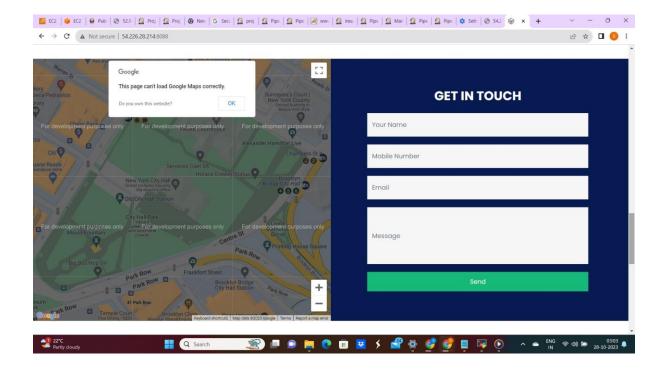
Insurance project web page is:-

To run this page I used public ip of test-server:port no

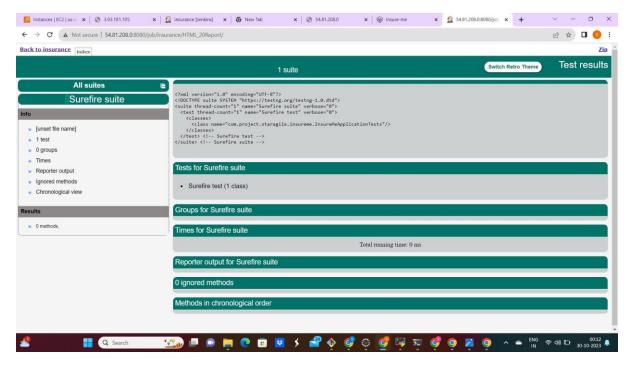






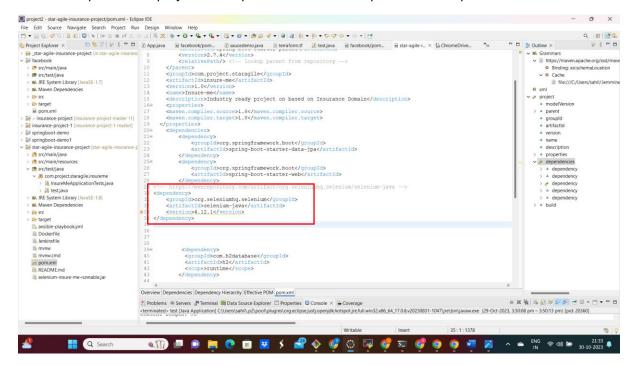


Generate HTML Report using TestNg

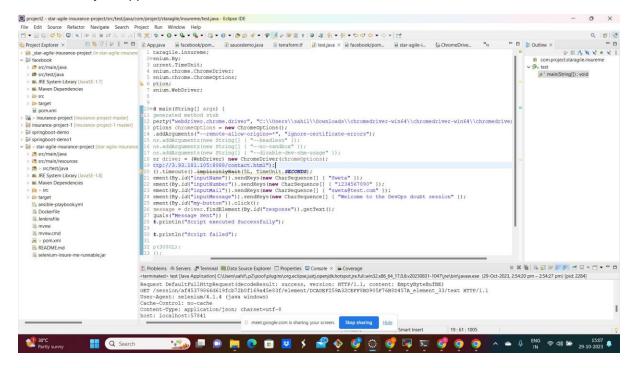


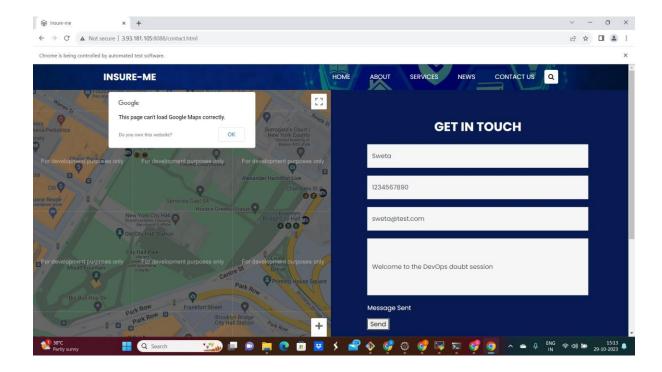
Selenium - For automating tests on the deployed web application

For this I imported this project on eclipse and added the dependencies on pom.xml file

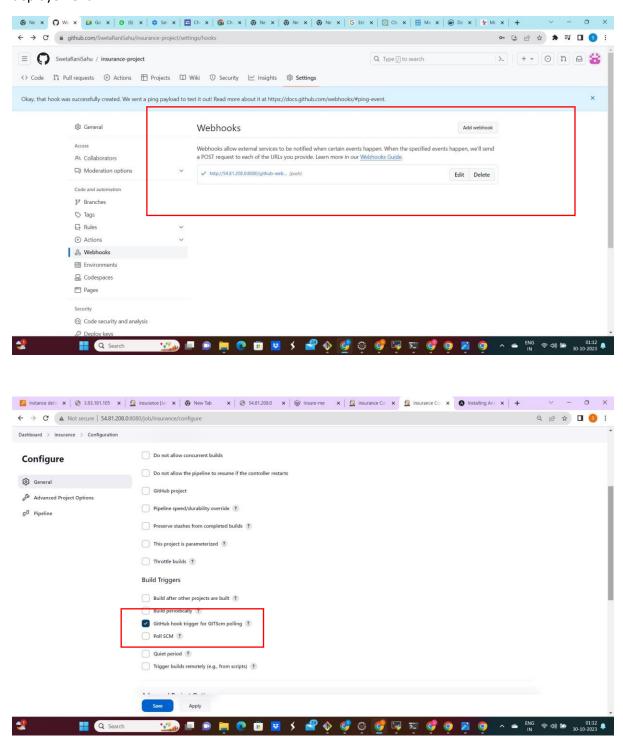


Created test.java application and added all the details to it





Created Git webhook and attached to the Jenkins master webhook for continuous integration and deployement.



. Push your code into your GitHub Repository.

