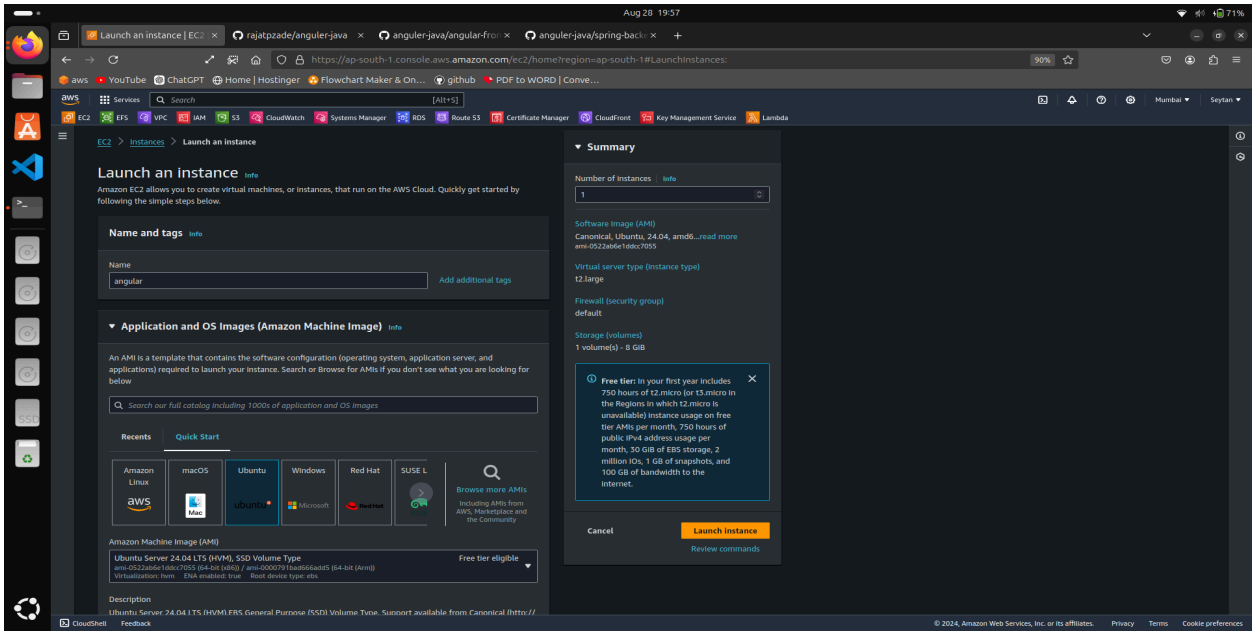
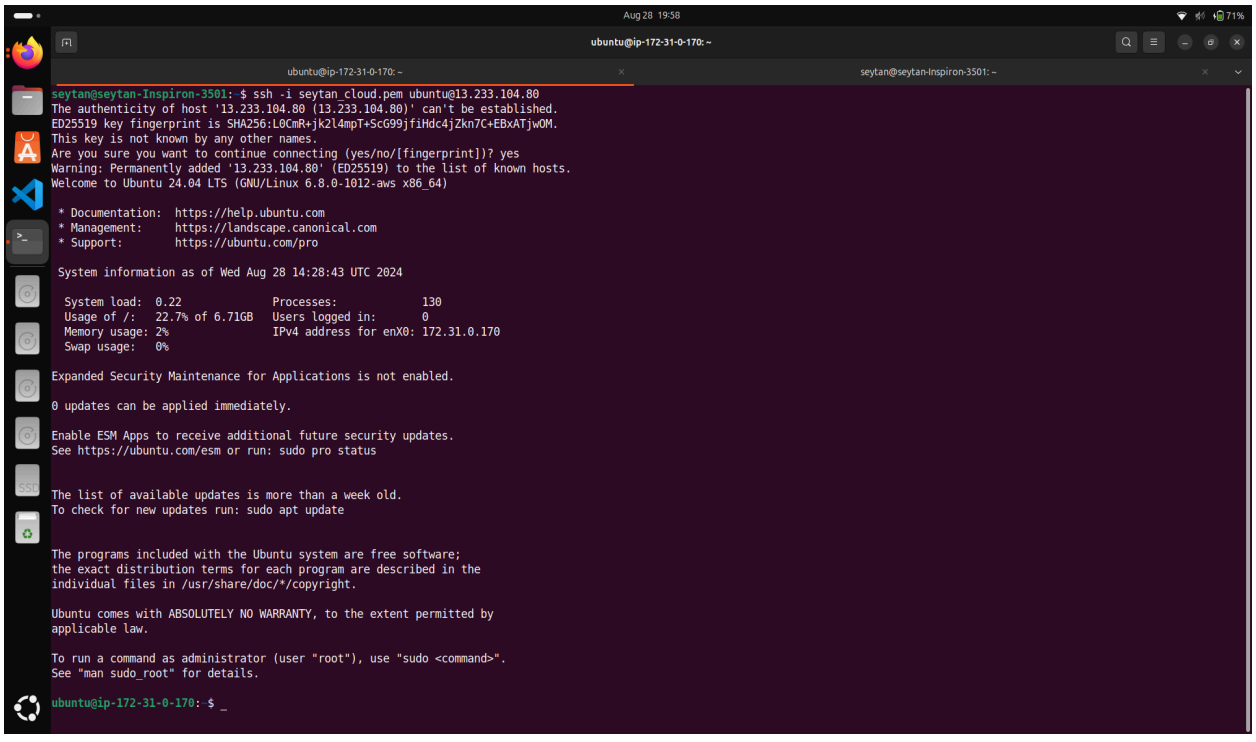
Task : Angular-Java App Deployment on EC2 Instance.

Step 1:Create an EC2 Instance and get its connection by using following command

→ ssh -i private_key.pem ubutnu@public_ip

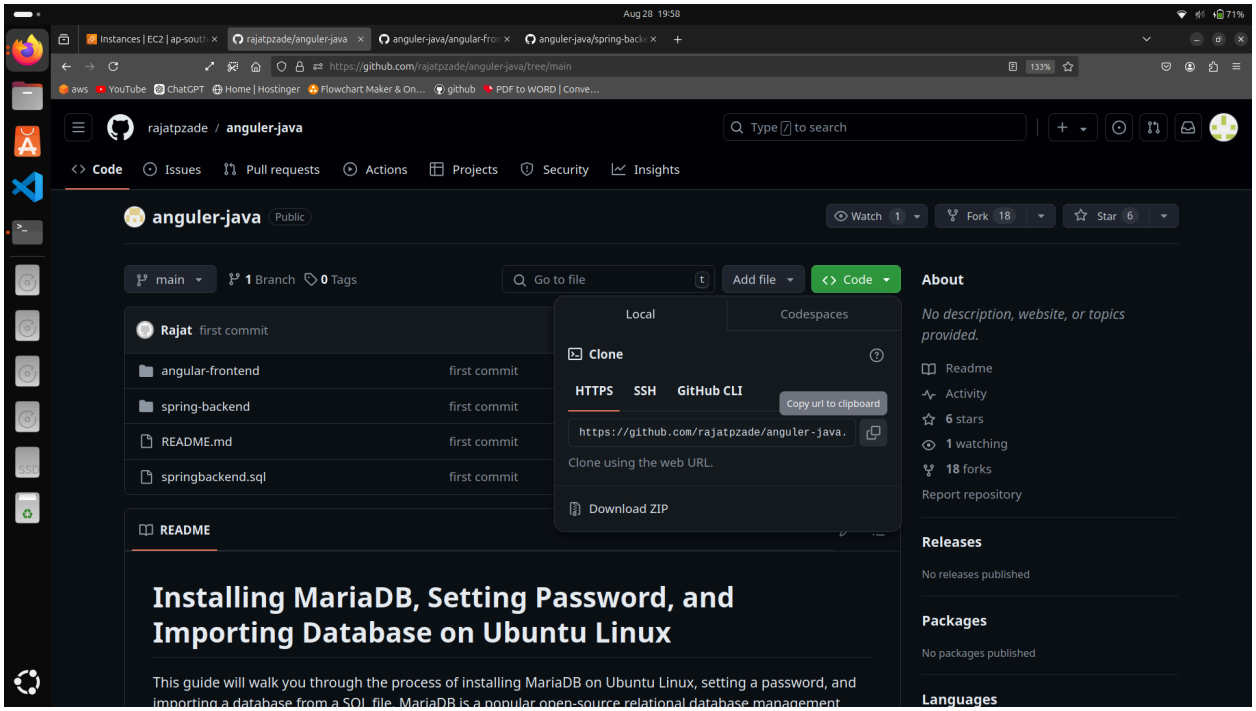


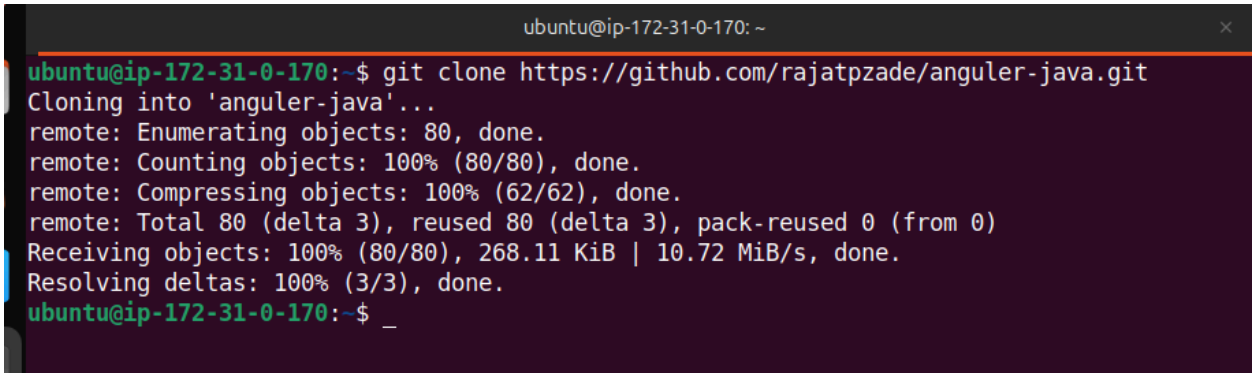


Step 2:

Now Clone the git repository on ec2 .

git clone https://github.com/rajatpzade/anguler-java.git





Step 3: Update the system and install mariadb database .

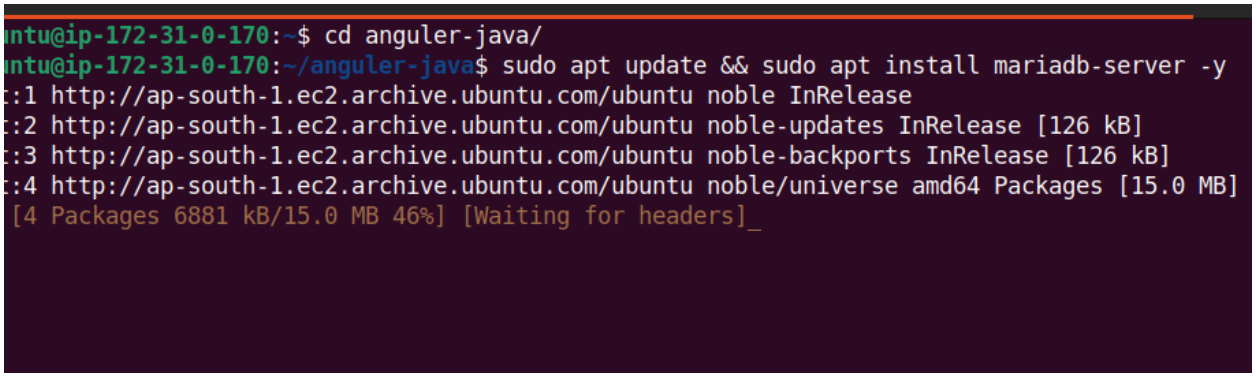
Commands:

sudo apt update

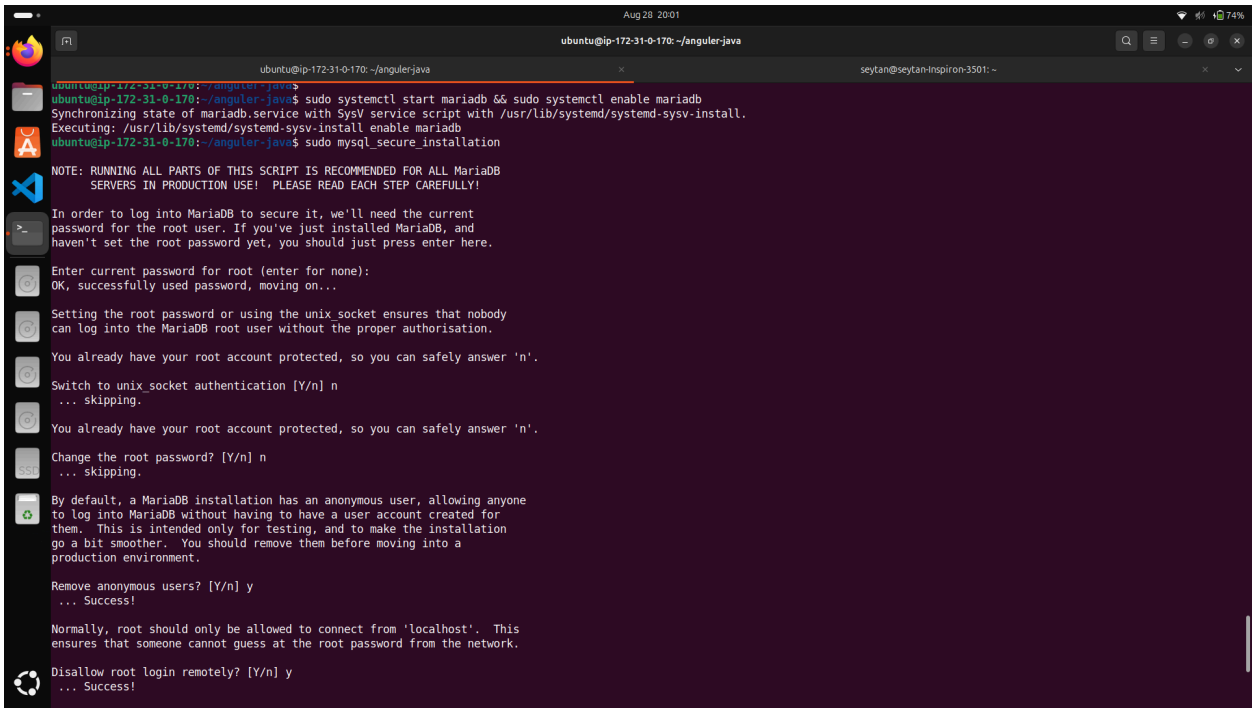
sudo apt install mariadb-server

sudo systemctl start mariadb

sudo systemctl enable mariadb

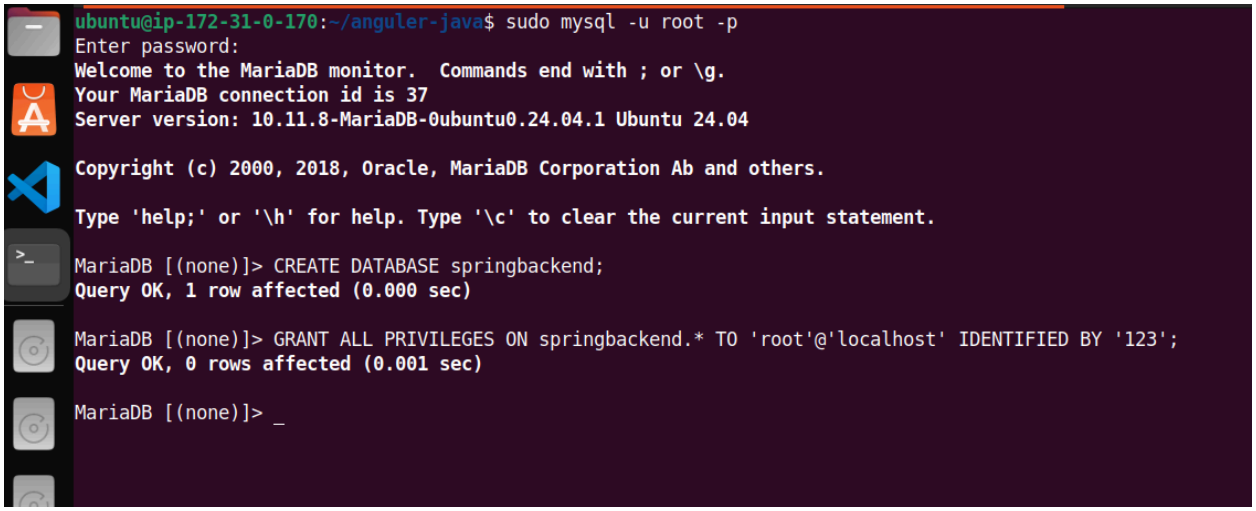


Now use the command → sudo mysql_secure_installation



Step 4: Now login to database and use following commands.
Login command: sudo mysql -u root -p

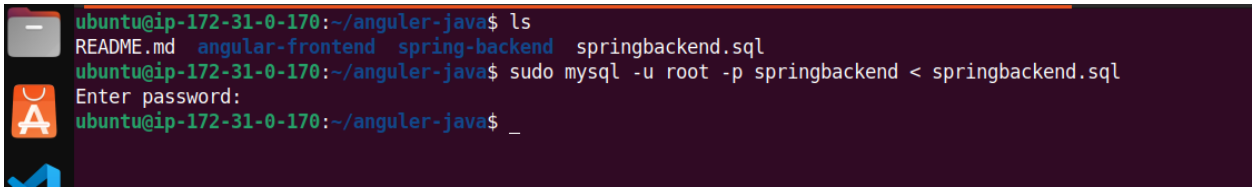
Database commands:
CREATE DATABASE springbackend;
GRANT ALL PRIVILEGES ON springbackend.* TO 'root'@'localhost' IDENTIFIED BY ‘123’;



Now , exit .

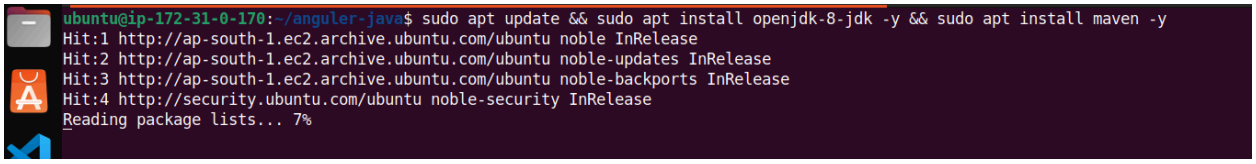
Then import the database from angular-java directory to our database.

Use command :
sudo mysql -u root -p springbackend < springbackend.sql



Step 5: **Now go to springbackend folder and follow the next instructions.**
Use command :

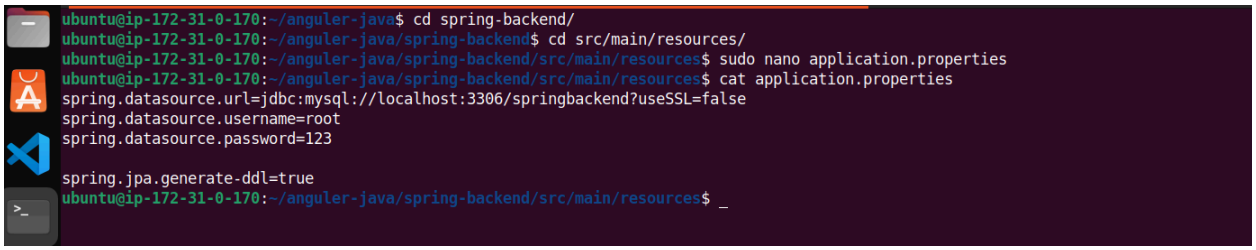
sudo apt update && sudo apt install openjdk-8-jdk -y && sudo apt install maven -y



Step 6:

Now go to /angular-java/springbackend/src/main/resources/

And edit the application.properties there set the username to root and password to what you set during mariadb installation.



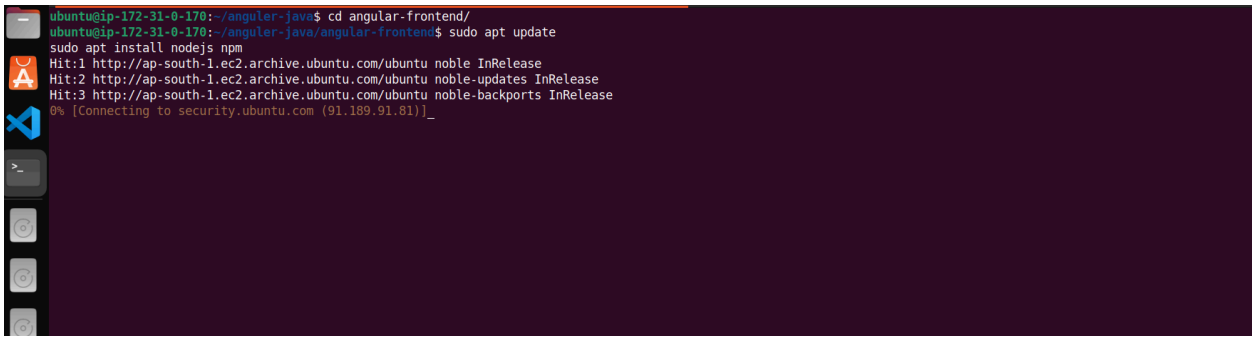
Step 7: Now go back to springbackend directory and run the following command .

→

mvn clean package -Dmaven.test.skip=true

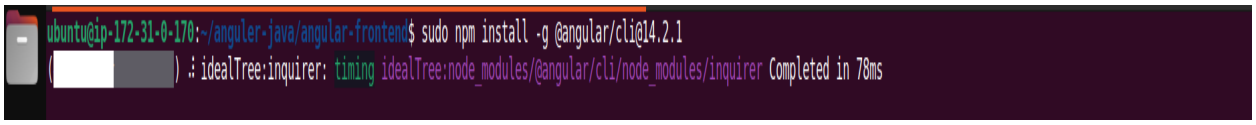
Step 8: Now go to the angular-frontend directory and run the following command.

sudo apt update
sudo apt install nodejs npm

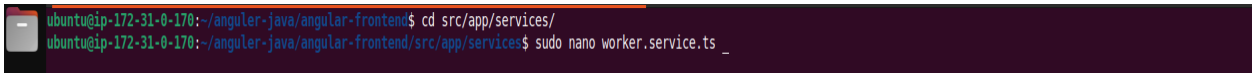


Step 9: Now install angular cli globally by the command:

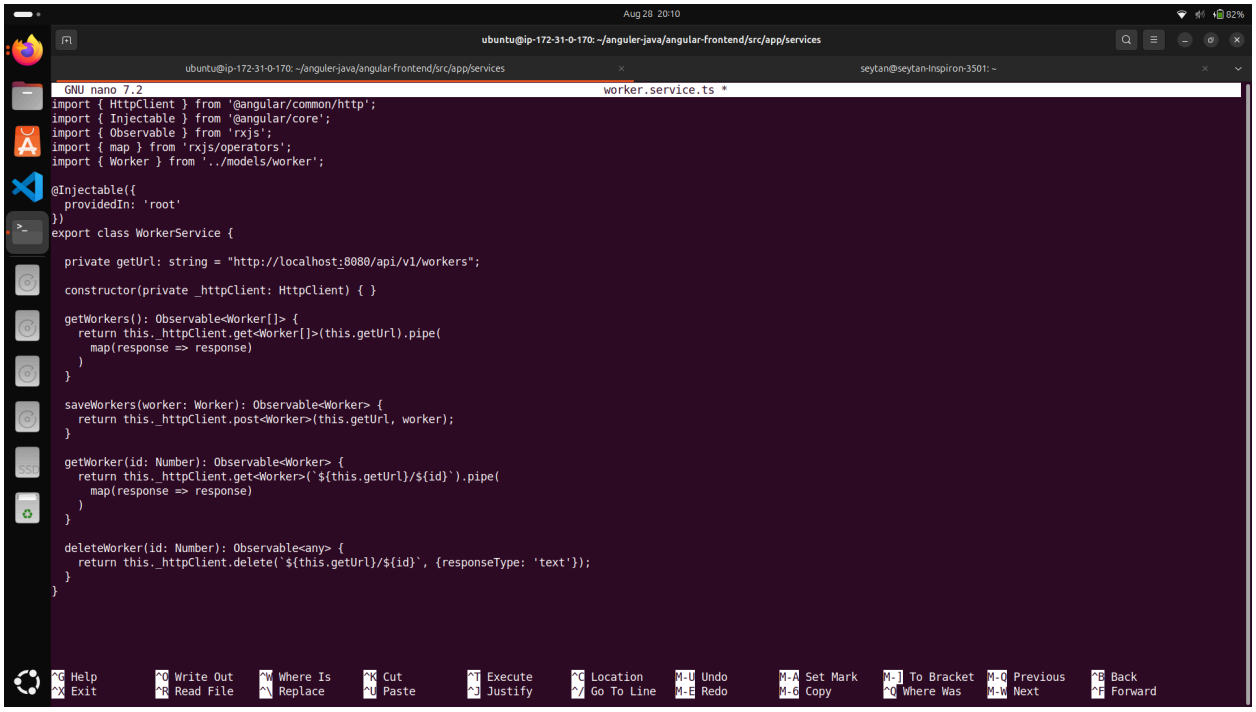
sudo npm install -g @angular/cli@14.2.1



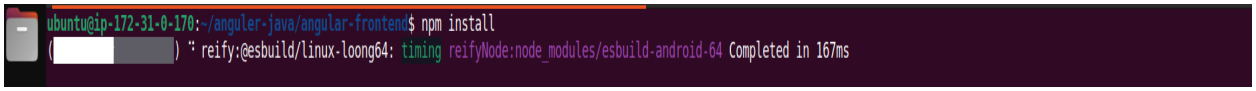
Step 10:Now go to the src/app/services directory and edit the worker.service.ts file .



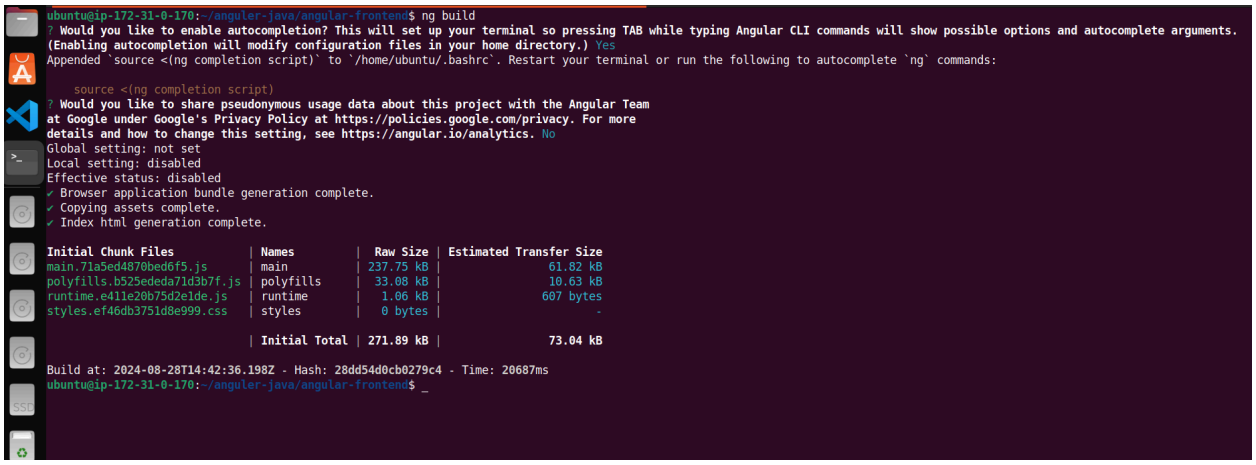
Replace the localhost in the file with public ip of instance.



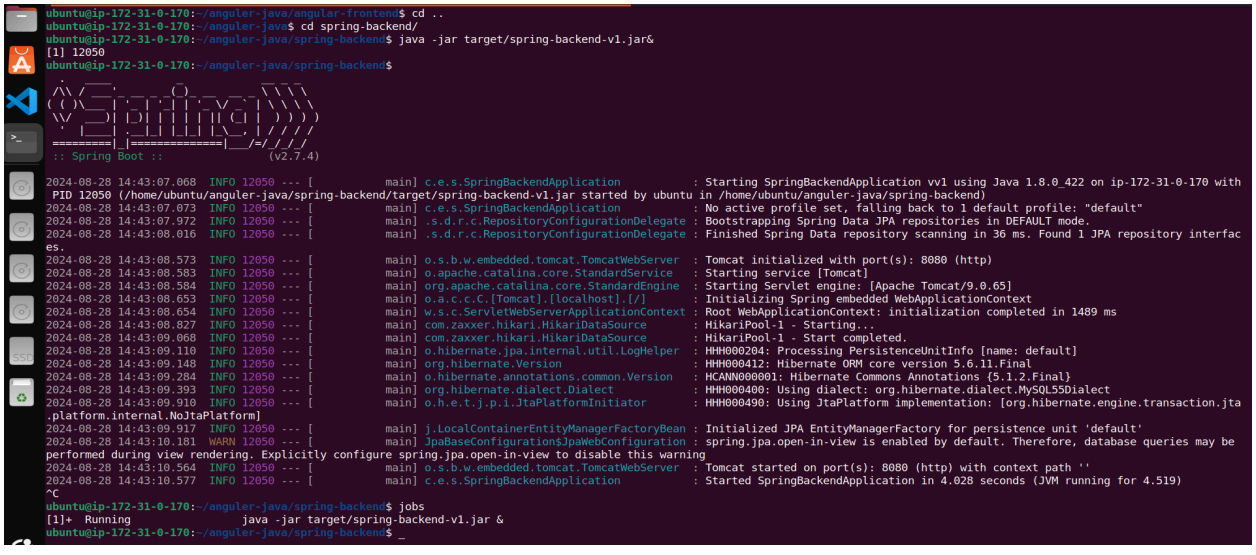
Step 11: Now go back to angular-frontend and run the npm install command.



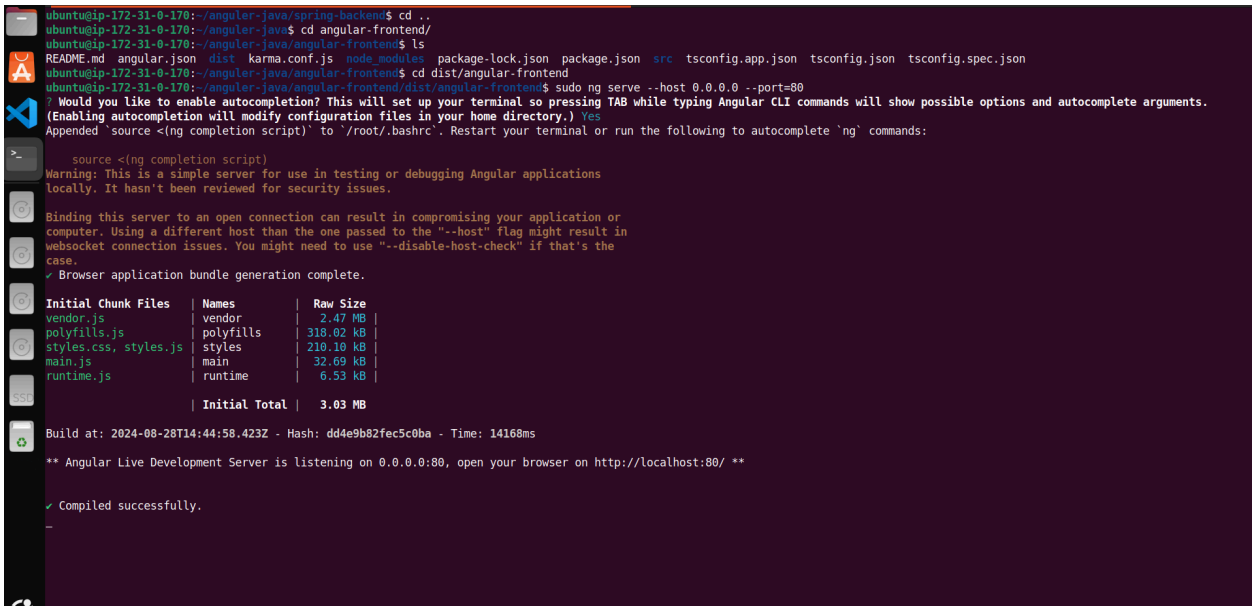
Step 12: Now run the ng build command it will create a dist/angular-frontend in the directory of angular-java/angular-frontend



Step 13: Now go back to spring-backend directory and run the following command in background.
java -jar target/spring-backend-v1.jar &

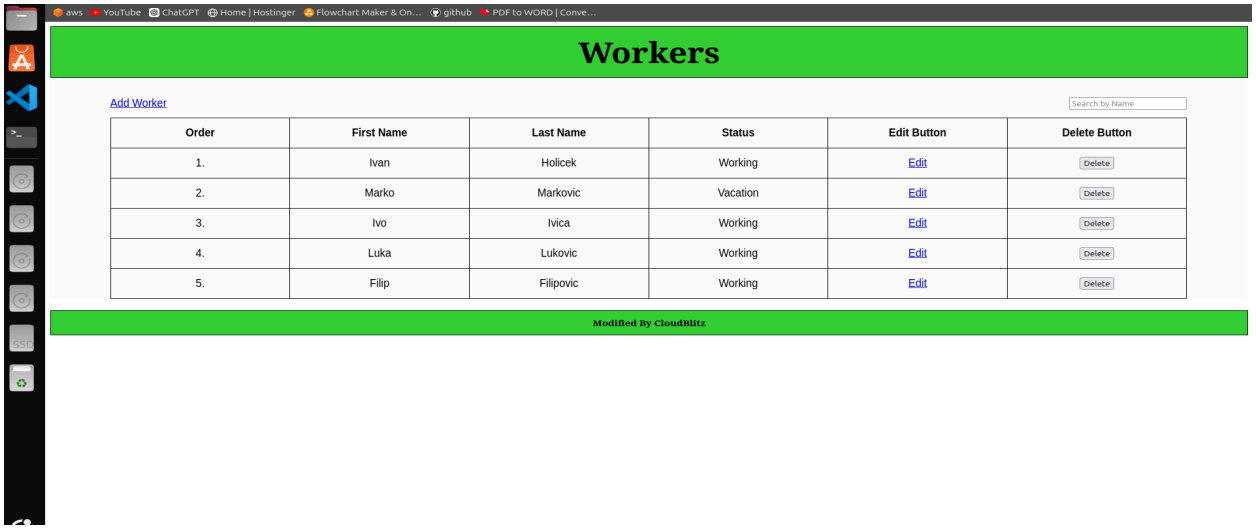


Step 14: After this go to the newly created directory dist/angular-frontend in the angular-java/angular-frontend And run the sudo ng serve --host 0.0.0.0 --port=80 command.

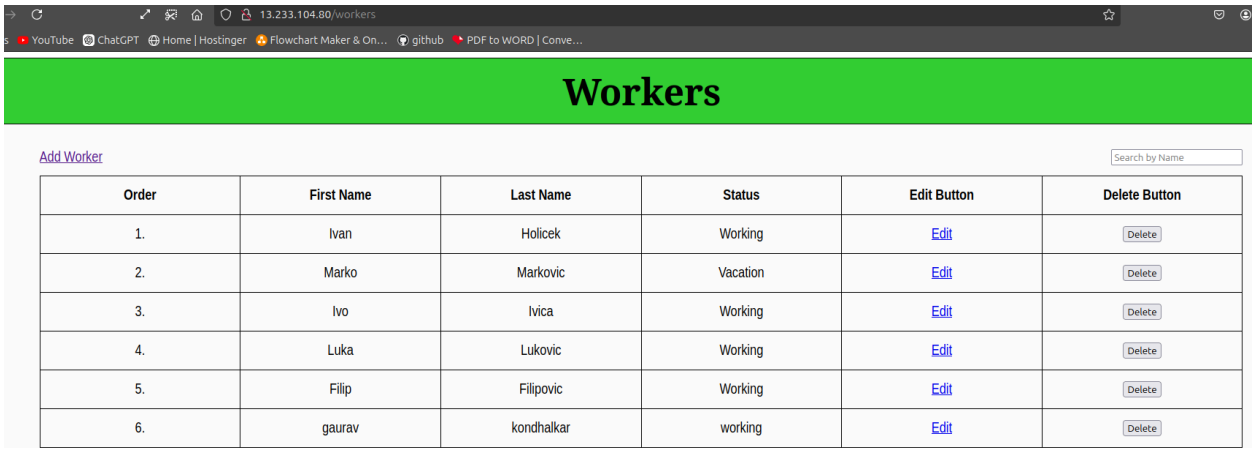


Step 15 : Now You can paste the public ip in the browser and see the output.

Output:



You can add worker and see the result as bellow.



Order	First Name	Last Name	Status	Edit Button	Delete Button
1.	Ivan	Holicek	Working	Edit	Delete
2.	Marko	Markovic	Vacation	Edit	Delete
3.	Ivo	Ivica	Working	Edit	Delete
4.	Luka	Lukovic	Working	Edit	Delete
5.	Filip	Filipovic	Working	Edit	Delete
6.	gaurav	kondhalkar	working	Edit	Delete