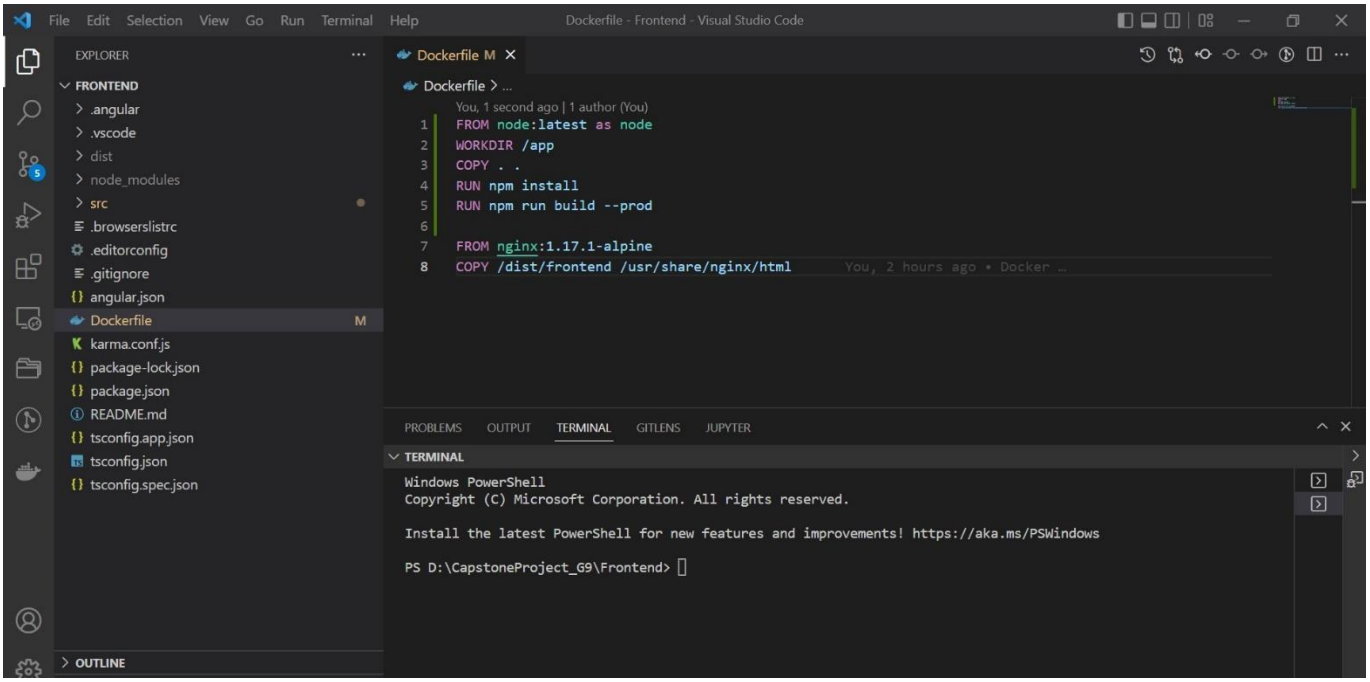
Google Cloud

Frontend (Angular) Docker Image

1. Open your Frontend folder in Visual Studio Code, make a docker file as “Dockerfile” out of your src directory, and edit it as follows.



2. Now push the changes done in your frontend folder to your git repository (or Refer below git command).

git init

git remote add origin “Repository URL”

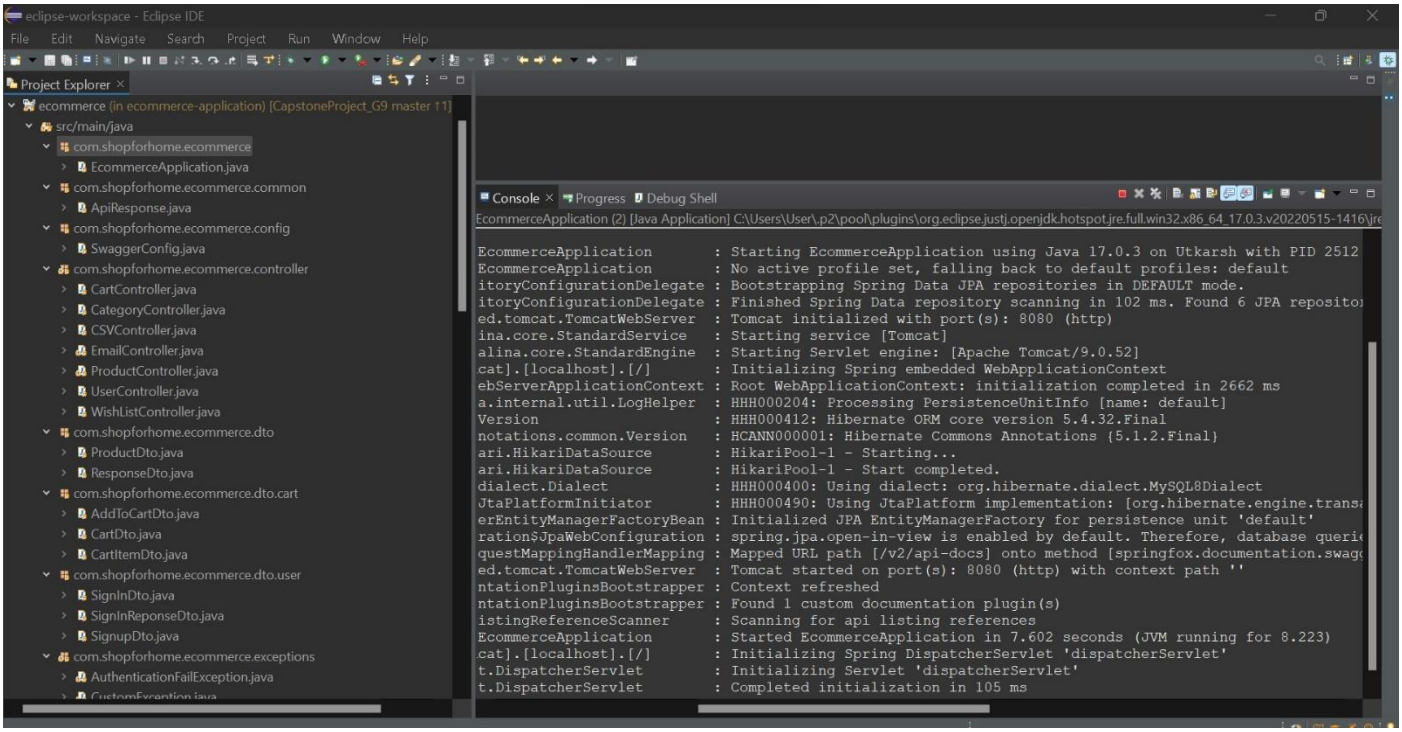
git add .

git commit -m “Docker”

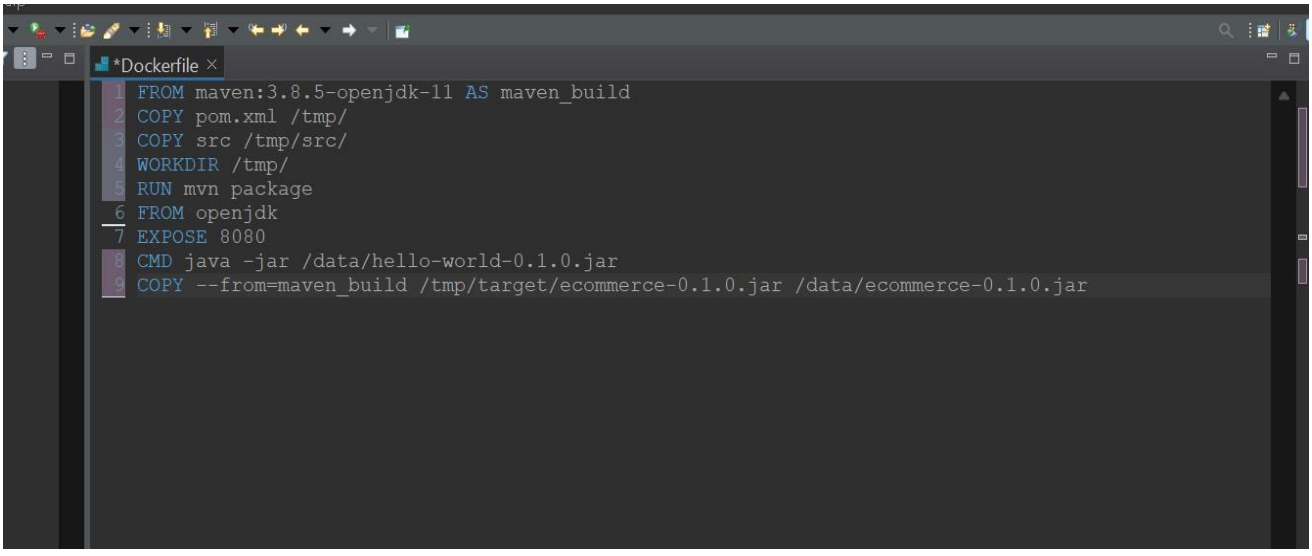
git push -u origin master.

Backend (Spring Boot)

1. Now, open the ecommerce-application on your Eclipse IDE.



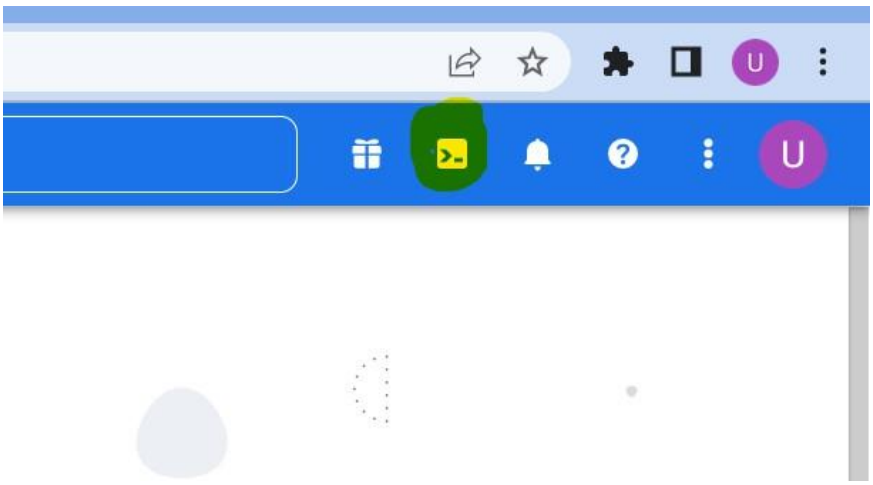
2. Create a new file from the src/main/java and name it as “Dockerfile” and edit the file as given below.



3. Again save the changes, and push the code to your git hub repository.

Google Cloud console

1. Login to GCP console and open Cloud Shell.



2. Create a directory for the your application

mkdir ecommerce

3. Switch to the directory

cd ecommerce

4. Clone the git repository

git clone “your repository”

5. Switch to the Frontend folder

cd G9_Capstone_project/Frontend

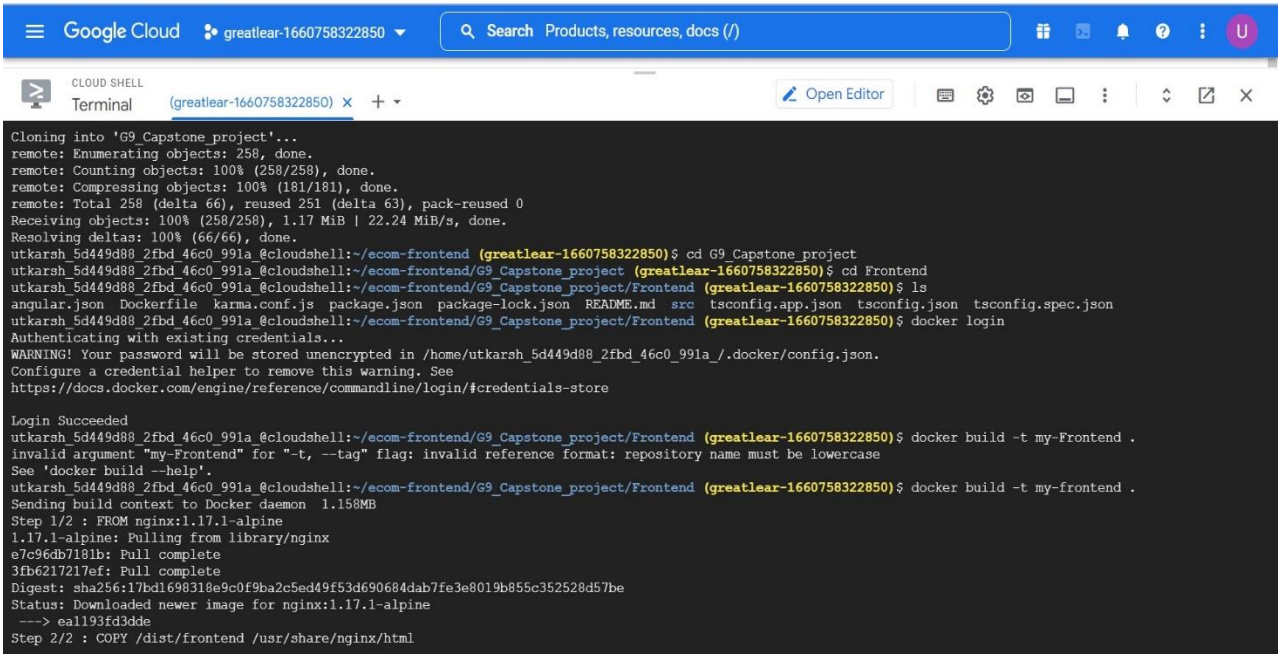
6. Login to the docker account

docker login

7. Build the docker image

docker build –pull –rm -f “Dockerfile” -t ecommerce/frontend:v1 .

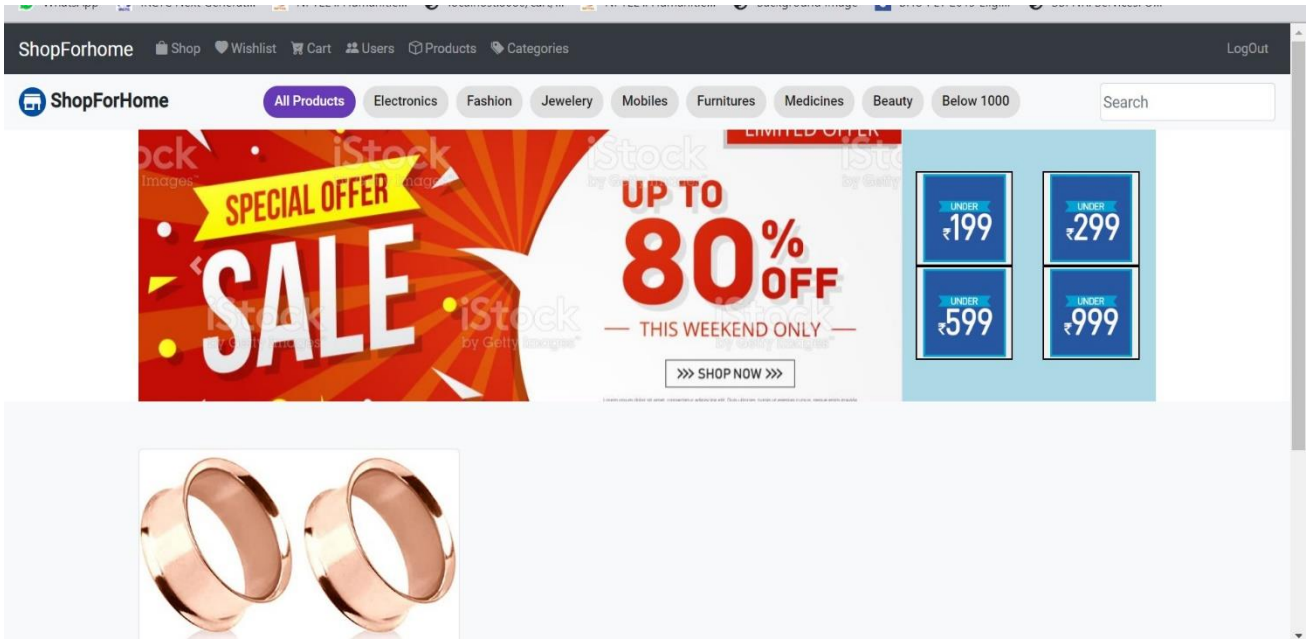
8. Authorize the Cloud shell and your frontend will start on port 4200



9. Now run the docker

docker run –rm -d -p 4200:4200/tcp ecommerce/frontend:v1

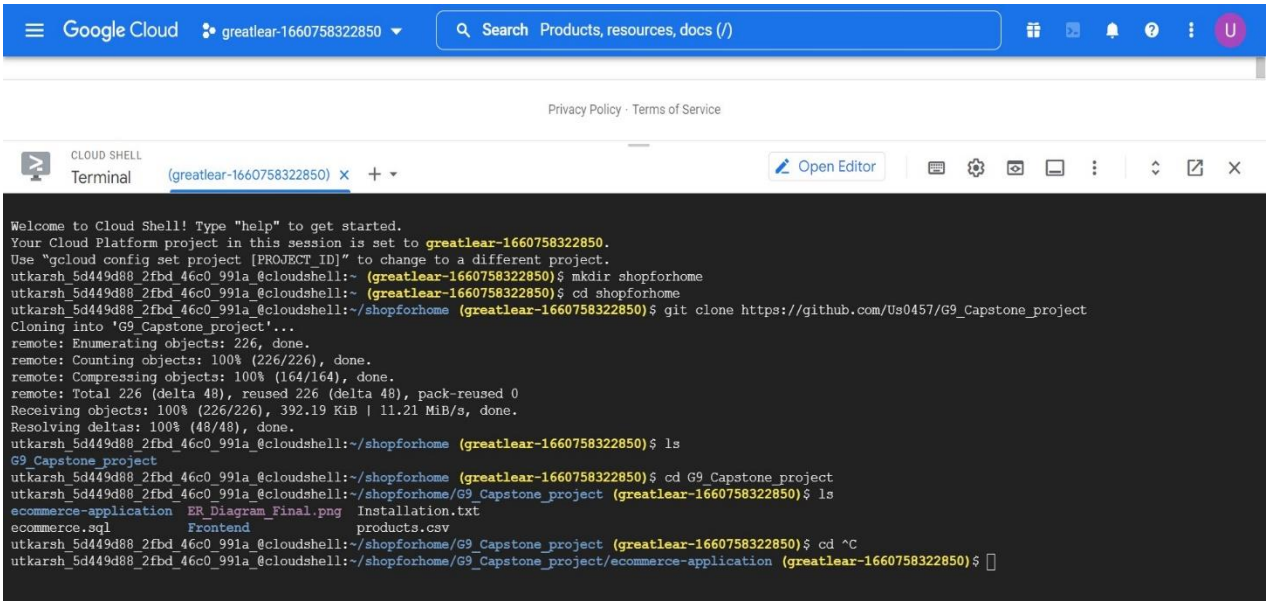
10. Find the web preview button and click on Preview on 4200



11. Now move to the **ecommerce-application** folder

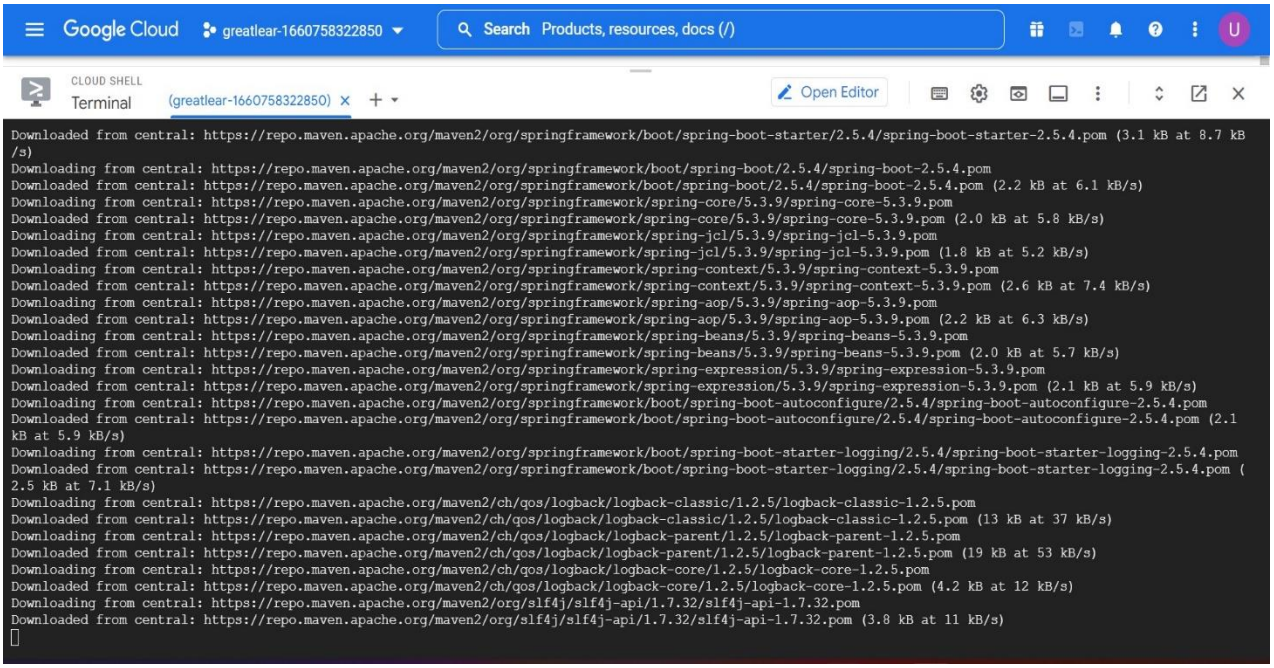
cd . .

cd ecommerce-application



12. Now build the docker image for the spring boot app.

docker build -t ecommerce/backend:v2 .



13. Now, again authorize the cloud shell.

14.Run the container using the image.

docker run -d -p 4200:8080 ecommerce/backend

15. Again open the web preview button and select “Change Preview Port” and enter port 4200. Now, navigate to the frontend ang refresh the webpage.