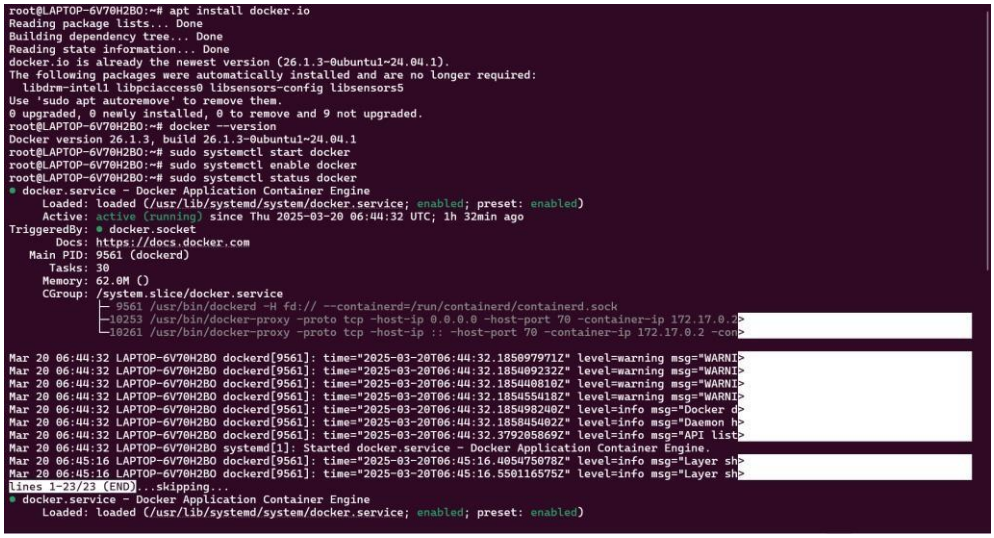
DEVOPS TASK- 2

1) Installation of Docker:

CODE :

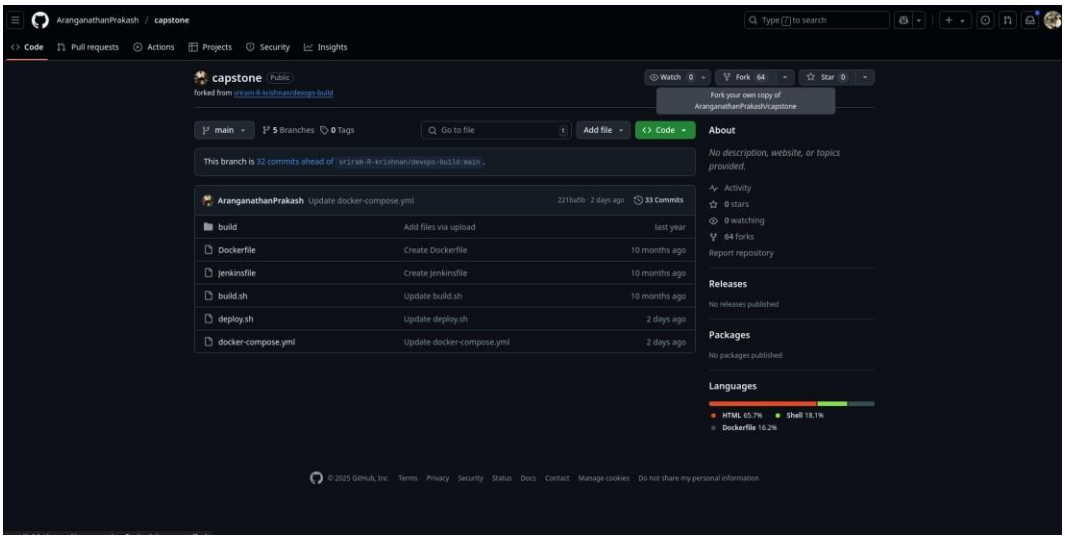
sudo apt install docker.io
Docker –version sudo systemctl
start docker sudo systemctl
enable docker
sudo systemctl status docker

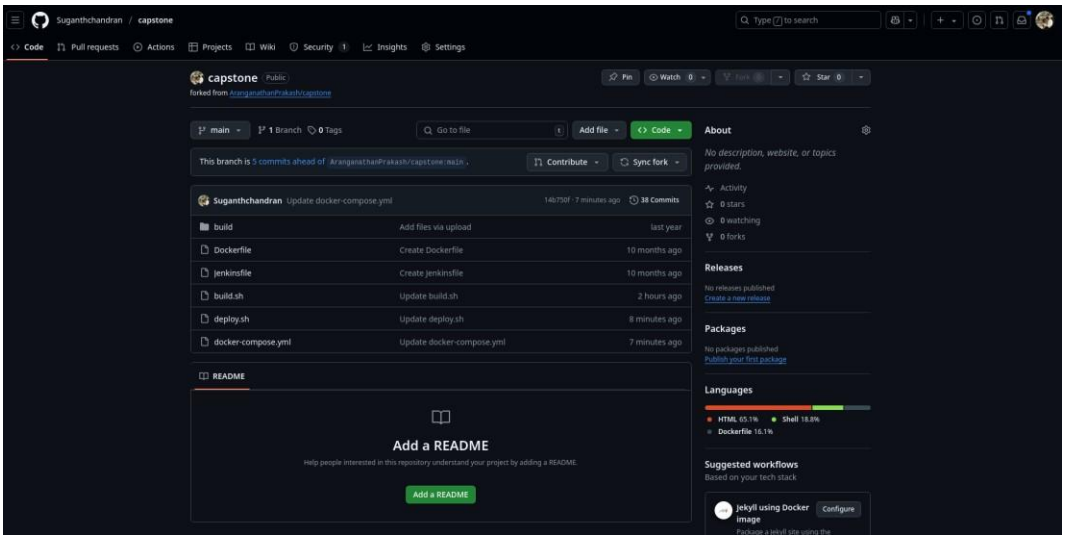
SCREENSHOT:



2) Fork a copy of a GitHub repo which contains the necessary files which will result in the clone of that repo in our own repository

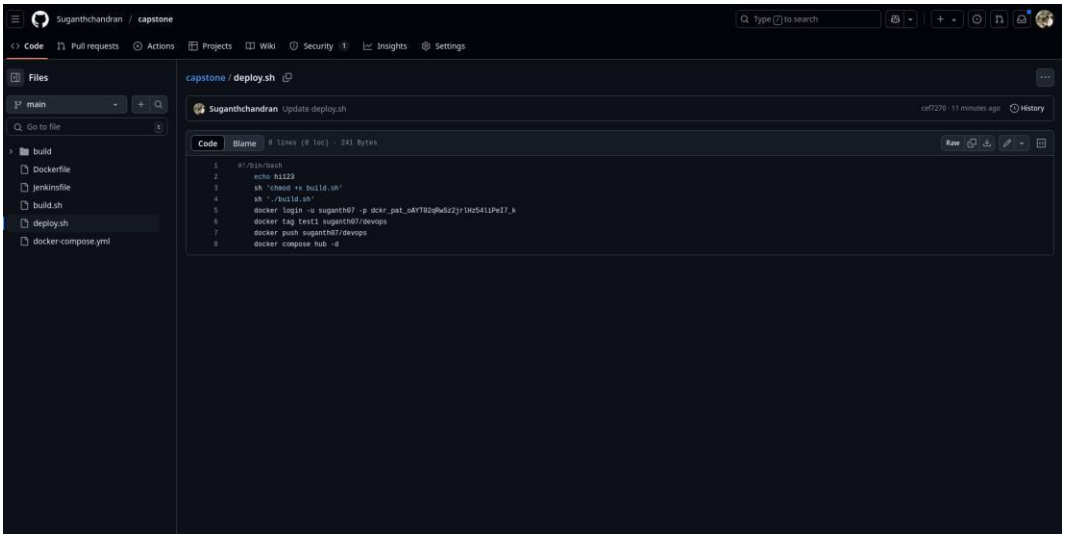
SCREENSHOT :





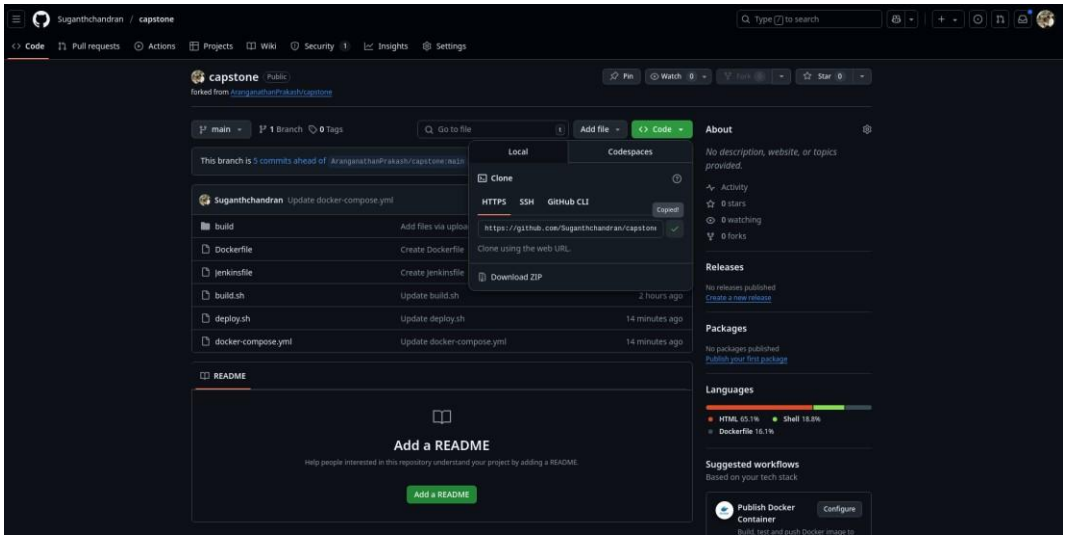
3) Then change the token and repo name of the docker Hub in the deploy.sh file which is in our repository.

SCREENSHOT :



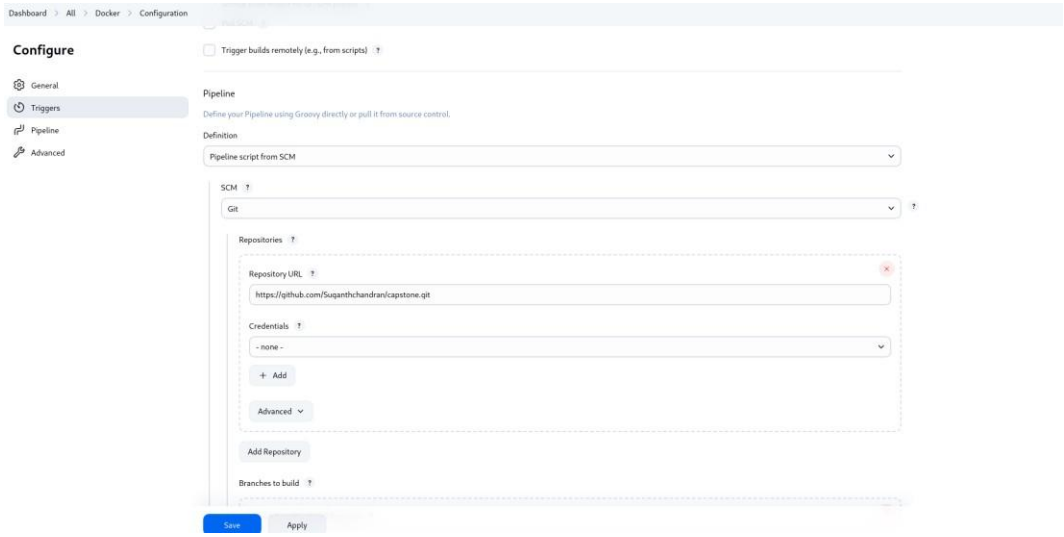
4) Then copy the GitHub link of the repository and go to Jenkins.

SCREENSHOT:



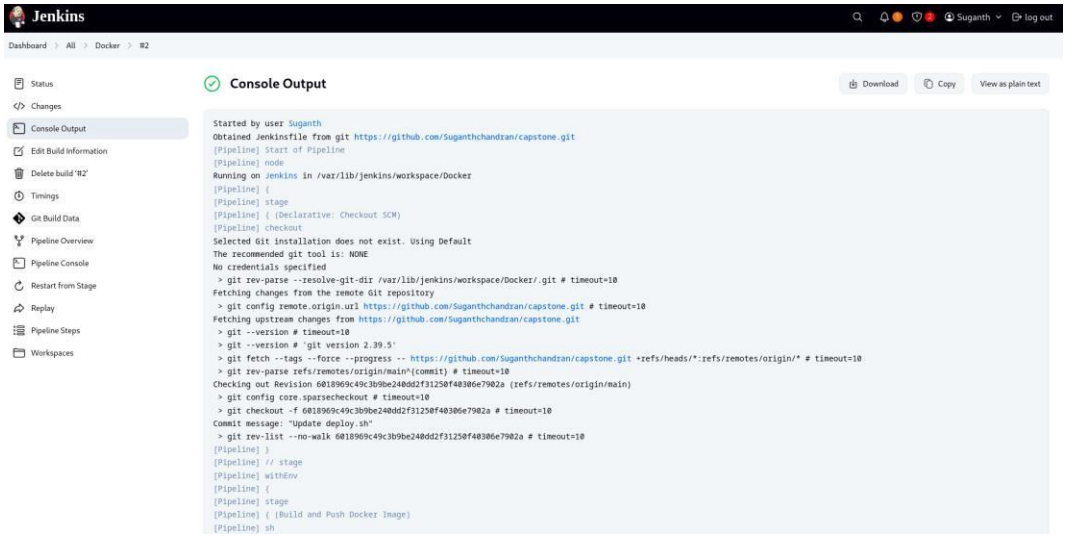
5) In Jenkins, create a new item (Job) with a type pipeline and add the copied GitHub url to it with the correct branch and Jenkinsfile.

SCREENSHOT:



6) After Creating the job, build it and it will give the console output and the docker image will be created.

SCREENSHOT:



7) Now Built this docker image in the terminal with desired port number to it.

CODE:

docker images

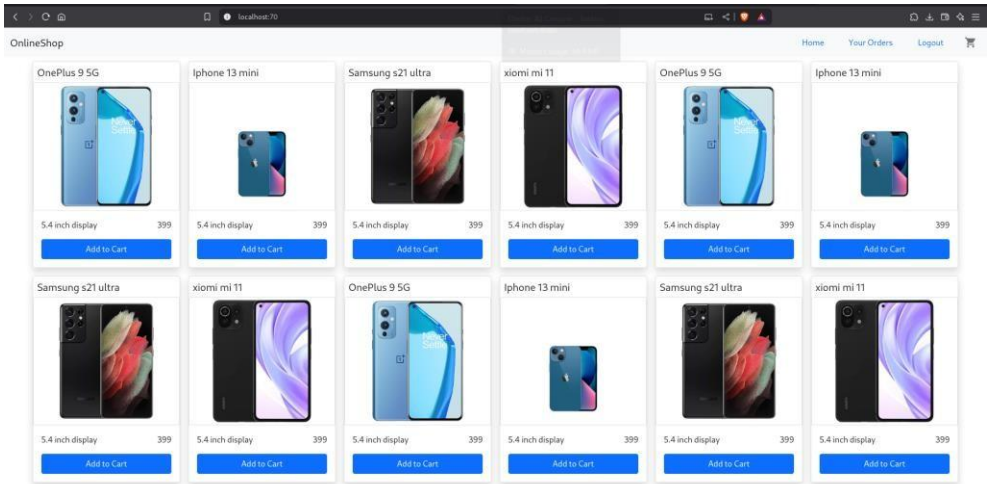
docker run –itd –p 70:80 test1

SCREENSHOT:

```
Password:
Error saving credentials: error storing credentials - err: exit status 1, out: `error storing credentials - err: exit status 1, out: `exit status 1: gpg: suganth0
gpg: [stdin]: encryption failed: No public key
Password encryption aborted.``
suganth@suganth-debian: $ rm ~/.docker/config.json
suganth@suganth-debian: $ docker login -u suganth07

i Info → A Personal Access Token (PAT) can be used instead.
        To create a PAT, visit https://app.docker.com/settings


Password:

WARNING! Your credentials are stored unencrypted in '/home/suganth/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
suganth@suganth-debian: $ docker images
REPOSITORY          TAG       IMAGE ID       CREATED       SIZE
suganth07/devops    latest    d96625e7ec0b   2 hours ago   195MB
test1               latest    d96625e7ec0b   2 hours ago   195MB
hello-world         latest    74cc54e27dc4   8 weeks ago   10.1kB
suganth@suganth-debian: $ docker run -itd -p 70:80 test1
09183a957145c5486005700a48291d3153d2148d50390f0fbc9a31afcf27eb68
suganth@suganth-debian: $ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED              STATUS              PORTS                                     NAMES
09183a957145   test1     "/docker-entrypoint.…"   About a minute ago   Up About a minute   0.0.0.0:70->80/tcp, [::]:70->80/tcp   flamboyant_chatterjee
suganth@suganth-debian: $ color a
bash: color: command not found
suganth@suganth-debian: $ history
 1008  git add .
 1009  git commit -m "vercel hosting updated"
```

8) Go to the Browser and search for localhost:<PORT_NUMBER> and the respective application will be hosted.

SCREENSHOT:

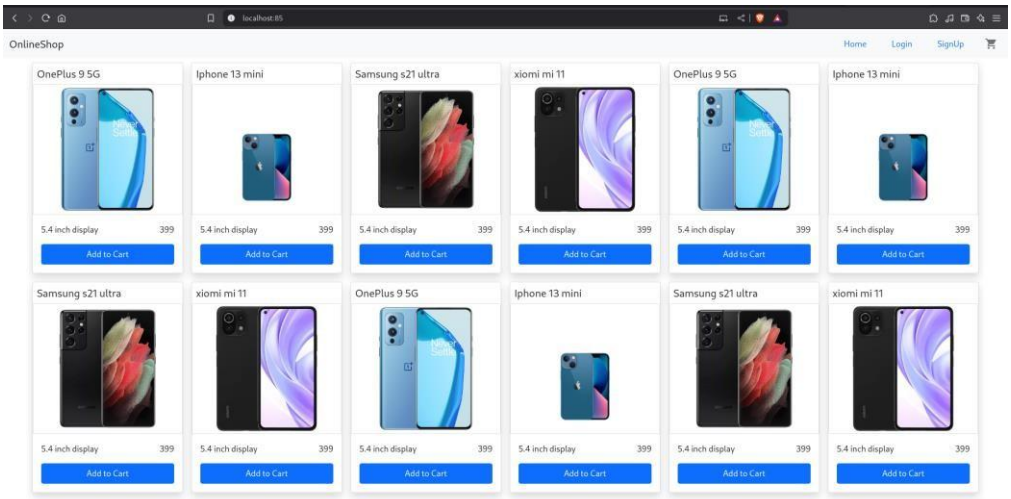


9) But, Instead of running the image by manually , we can also write the command for running in a file called docker-compose.yml

CODE:

```
version: '3'
services: react-capstone:
image: "test1"
ports: - "85:80"
```

SCREENSHOT:



By Creating this, we no need to run the image by manually. (It will automatically run)

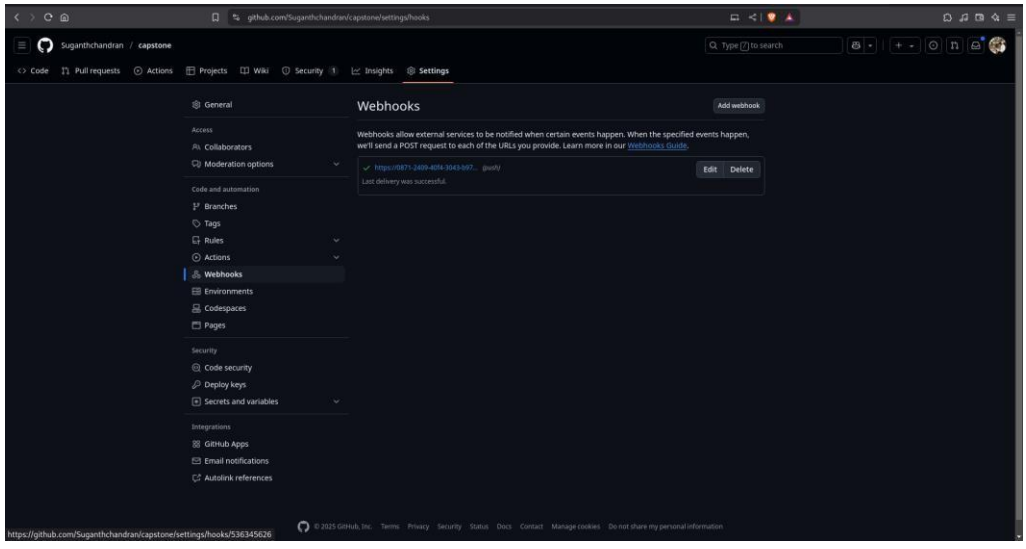
10) Adding Webhook to it which is available in GitHub for automatic build of the project.

Installing ngrok and with these command to get the Webhook Link.

SCREENSHOT:

```
suganth@suganth-debian: $ sudo snap install ngrok
[sudo] password for suganth:
snap "ngrok" is already installed, see 'snap help refresh'
suganth@suganth-debian: $ ngrok config add-authtoken 2ua0OvQJhkUaufCzLz5UH2RDy54_5qRRxawTboXsGwcnG9wt
Authtoken saved to configuration file: /home/suganth/snap/ngrok/255/.config/ngrok/ngrok.yml
suganth@suganth-debian: $ ngrok http 8080
suganth@suganth-debian: $
```


```
suganth@suganth-debian: $ sudo snap install ngrok
[sudo] password for suganth:
snap "ngrok" is already installed, see 'snap help refresh'
suganth@suganth-debian: $ ngrok config add-authtoken 2ua0OvQJhkUaufCzLz5UH2RDy54_5qRRxawTboXsGwcnG9wt
Authtoken saved to configuration file: /home/suganth/snap/ngrok/255/.config/ngrok/ngrok.yml
suganth@suganth-debian: $ ngrok http 8080
suganth@suganth-debian: $
```

11) Tick the checkbox of GitHub hook trigger for GITScm polling in Jenkins.

SCREENSHOT :