# Task 2 For DevOps:

### 1) Installation of Docker:

#### Code:

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

```
rootBLAPTOP-6V70H22D:-# apt install docker.io
Reading package lists. Done
Building dependency tree... Done
Building dependency tree... Done
Beading state information... Done
Beading state information... Done
Beading state information... Done
Beading state information... Done
Bocker.io is already the newest version (26.1.3-8ubuntul-24.08.1).
The following packages were automatically installed and are no longer required:

Libdrm-intell Libpciaccess0 libsensors-config libsensors5

Uses used an autocomecous to remove them.

Sus used and autocomecous to remove them.

Sus used and autocomecous to remove them.

Sus used and autocomecous to remove them.

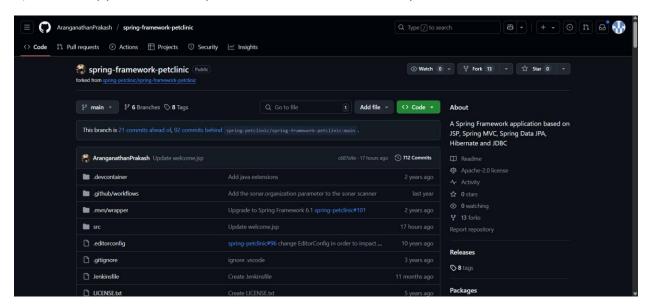
Sus used autocomecous to remove them.

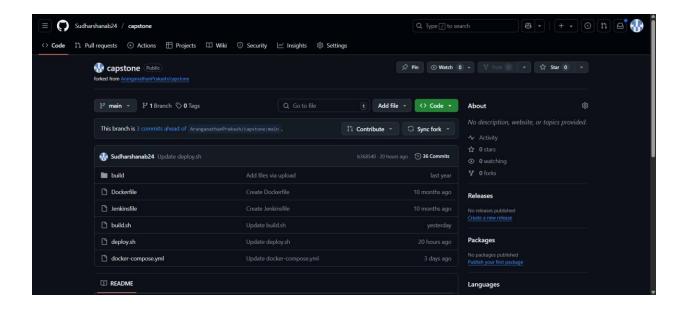
Sus used and autocomecous to remove them.

Sus used autocomecous to remove them.

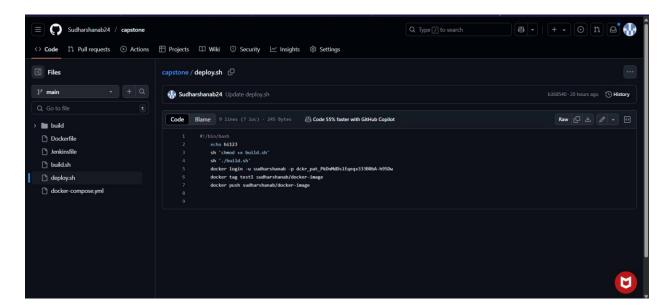
Sus used and autocomecous to remo
```

2) Fork a copy of a Github repo which contains the necessary files

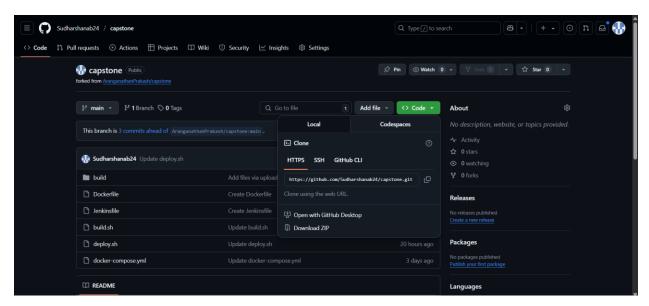




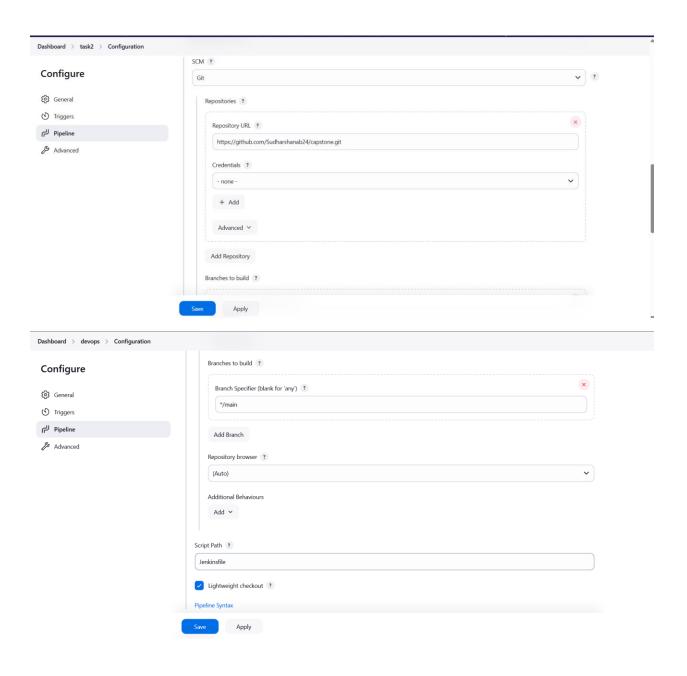
3) Then edit the deploy.sh file and enter the corresponding username and tokens



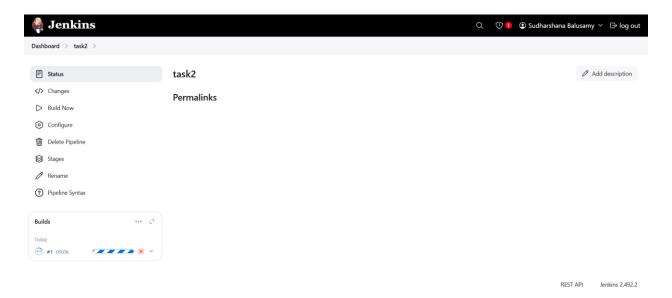
4) Copy the GitHub link of the repository and go to Jenkins to create a pipeline project



5) In Jenkins create a new item(Job) with a pipeline type and add the Git URL to the respective branch and Jenkinsfile



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



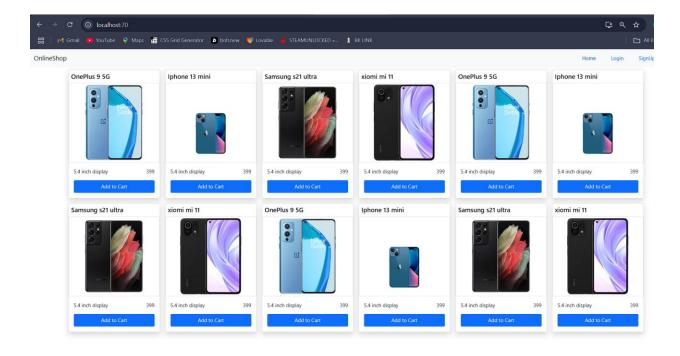
7) Now attach the desired port number to the build image

## CODE:

docker images docker build -itd -p 70:80 test1

ScreenShot:

8) Go to the Browser and search for localhost:<PORT\_NUMBER> and the respective website will be hosted



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

## Code:

version: '3'

services:

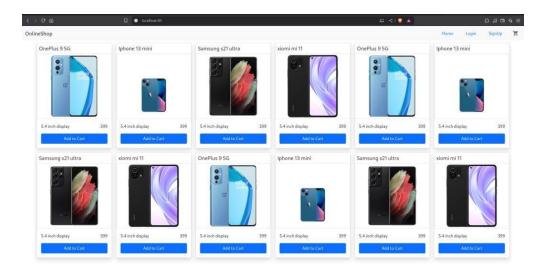
react-capstone:

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:

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

#### **SCREENSHOT:**

