

Installation Guide

Virtual Machine Environment:

The application runs on a virtual machine based on the Ubuntu 20.4.1 LTS virtual machine image. The VM image should be imported and run using VirtualBox 6.1.22.

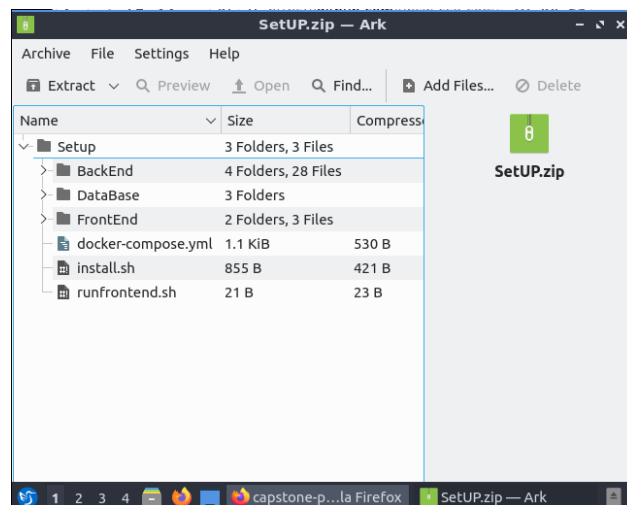
Requirements:

- Ubuntu 20.4.1 LTS virtual machine image
- VirtualBox 6.1.22
- Docker
- Node.js v19.7.0
- npm 9.5.0
- SetUp.zip file

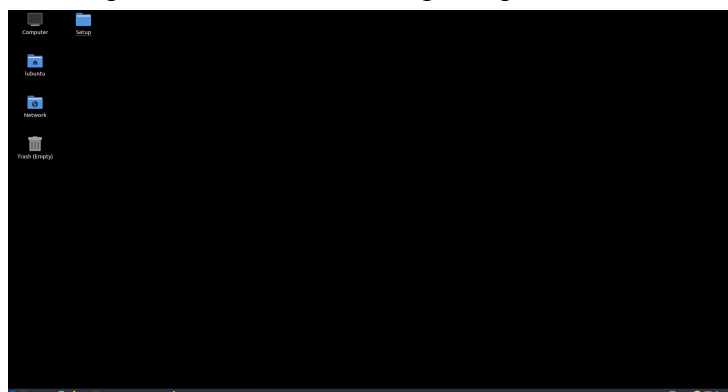
The following steps cover all the installation procedures and how to run the app How to install and run:

1. Download the SetUp.zip via path:

<https://github.com/unsu-cse-comp3900-9900-23T1/capstone-project-3900w12aunsoftware/blob/main/SetUP.zip>



2. Unzip the SetUp.zip as a folder named Setup and place it on the desktop location



3. Open the terminal in VM

ctrl + alt + T

4. cd to the directory of Setup folder using **cd Desktop/Setup** and perform certain actions, when chmod the required password for lubuntu is: **lubuntu**

cd Desktop/Setup

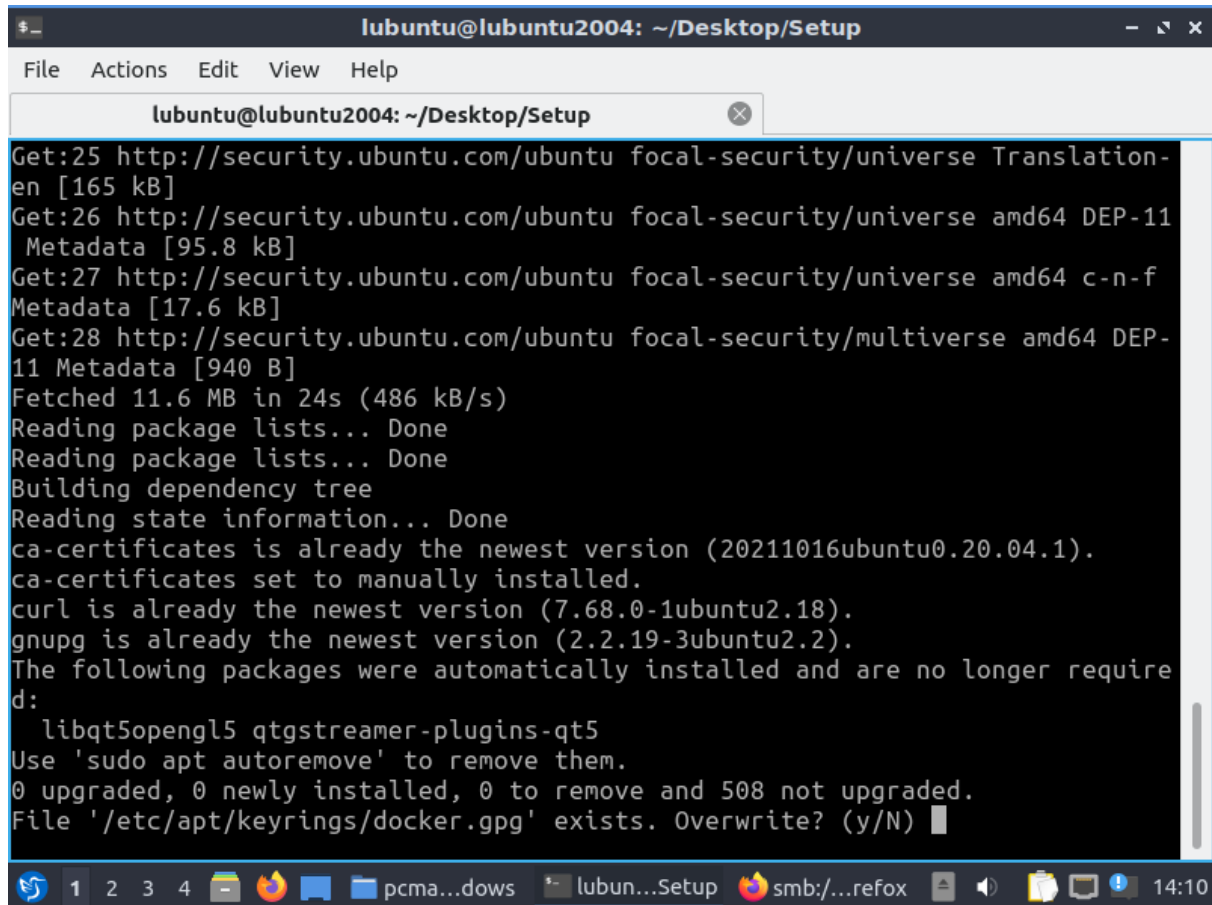
sudo chmod 777 ./install.sh

./install.sh

```
lubuntu@lubuntu2004:~$ cd Desktop/Setup/
lubuntu@lubuntu2004:~/Desktop/Setup$ sudo chmod 777 ./install.sh
[sudo] password for lubuntu:
lubuntu@lubuntu2004:~/Desktop/Setup$ ./install.sh
```

Sometimes it needs to Press Y to continue like this.

(4 time in total.)



```
lubuntu@lubuntu2004: ~/Desktop/Setup
File Actions Edit View Help
lubuntu@lubuntu2004: ~/Desktop/Setup
Get:25 http://security.ubuntu.com/ubuntu focal-security/universe Translation-
en [165 kB]
Get:26 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11
Metadata [95.8 kB]
Get:27 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f
Metadata [17.6 kB]
Get:28 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-
11 Metadata [940 B]
Fetched 11.6 MB in 24s (486 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree
Reading state information... Done
ca-certificates is already the newest version (20211016ubuntu0.20.04.1).
ca-certificates set to manually installed.
curl is already the newest version (7.68.0-1ubuntu2.18).
gnupg is already the newest version (2.2.19-3ubuntu2.2).
The following packages were automatically installed and are no longer require
d:
  libqt5opengl5 qtgstreamer-plugins-qt5
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 508 not upgraded.
File '/etc/apt/keyrings/docker.gpg' exists. Overwrite? (y/N)
```

5. After the installation completes, switch to docker group by enter command **newgrp - docker**

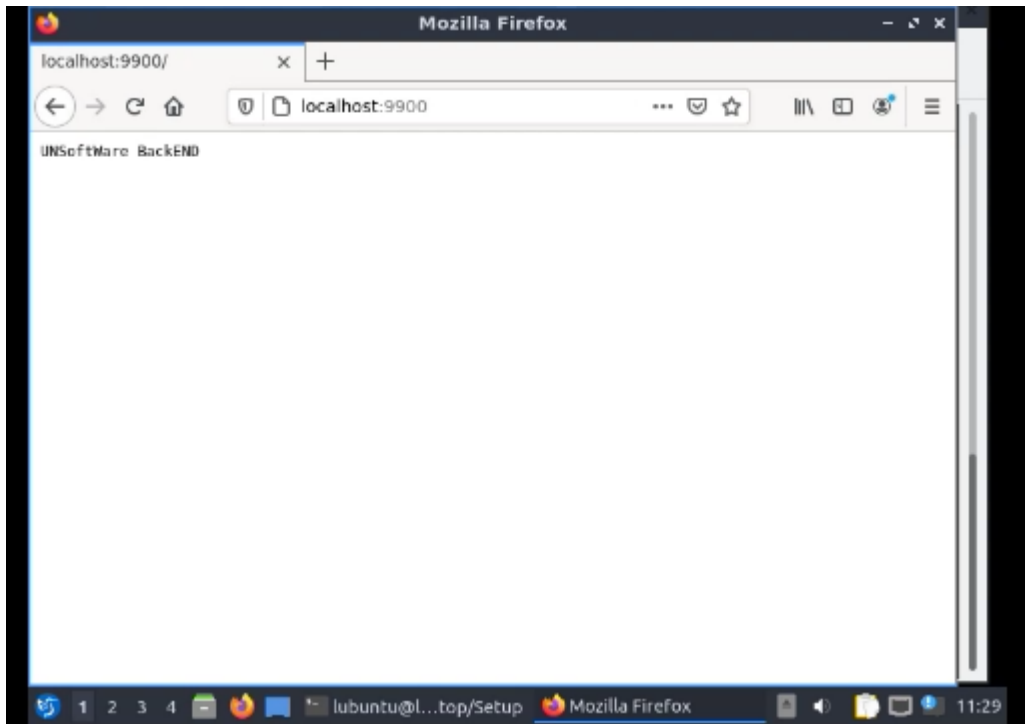
```
lubuntu@lubuntu2004:~/Desktop/Setup$ newgrp - docker
```

6. Then go to `Setup` Folder via **cd Desktop/Setup** and enter command **docker-compose up -d** to startup all Backend application.
cd Desktop/Setup
docker-compose up -d

Note if the downloading process get stuck halfway through, we can close the current terminal and restart from Step 5.

After these steps, the project backend is running. We can check it by visiting <http://localhost:9900>

A text message “UNSoftWare BackEND”is diaplayed.



To Run The Front End

7. Once we have the backend and database up and running, we can proceed with front end installations. We need to install npm first. The command is:
sudo apt install npm
8. We can check node js is installed by getting the current node js version:
node -v

```
lubuntu@lubuntu2004:~/Desktop/Setup$ npx create-react-app my-app
npx: installed 67 in 10.398s
You are running Node 10.19.0.
Create React App requires Node 14 or higher.
Please update your version of Node.
```

9. To run the react app, we need to update the node version to **v19.7.0** (if node.js is already installed. remove it first by using command: **sudo apt remove nodejs**)

```
lubuntu@lubuntu2004:~/Desktop/Setup$ node -v
v10.19.0
lubuntu@lubuntu2004:~/Desktop/Setup$ sudo apt remove nodejs
```

To update node.js to the required version (v19.7.0), run the following command:

```
lubuntu@lubuntu2004:~/Desktop/Setup$ curl -sL https://deb.nodesource.com
/setup_current.x|sudo -E bash -
```

curl -sL https://deb.nodesource.com/setup_current.x | sudo -E bash -

sudo apt-get install -y nodejs

node -v

Now the node and npm versions should be as allowing.

```
lubuntu@lubuntu2004:~/Desktop/Setup$ node -v
v19.7.0
lubuntu@lubuntu2004:~/Desktop/Setup$ npm -v
9.5.0
```

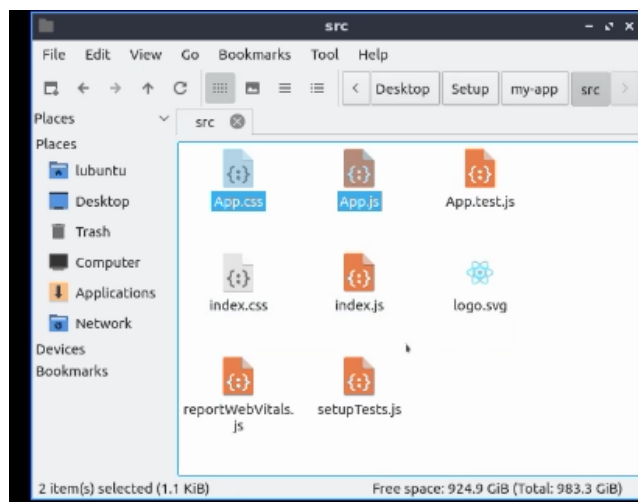
10. Create app

To create the frontend react app, use the following commands:

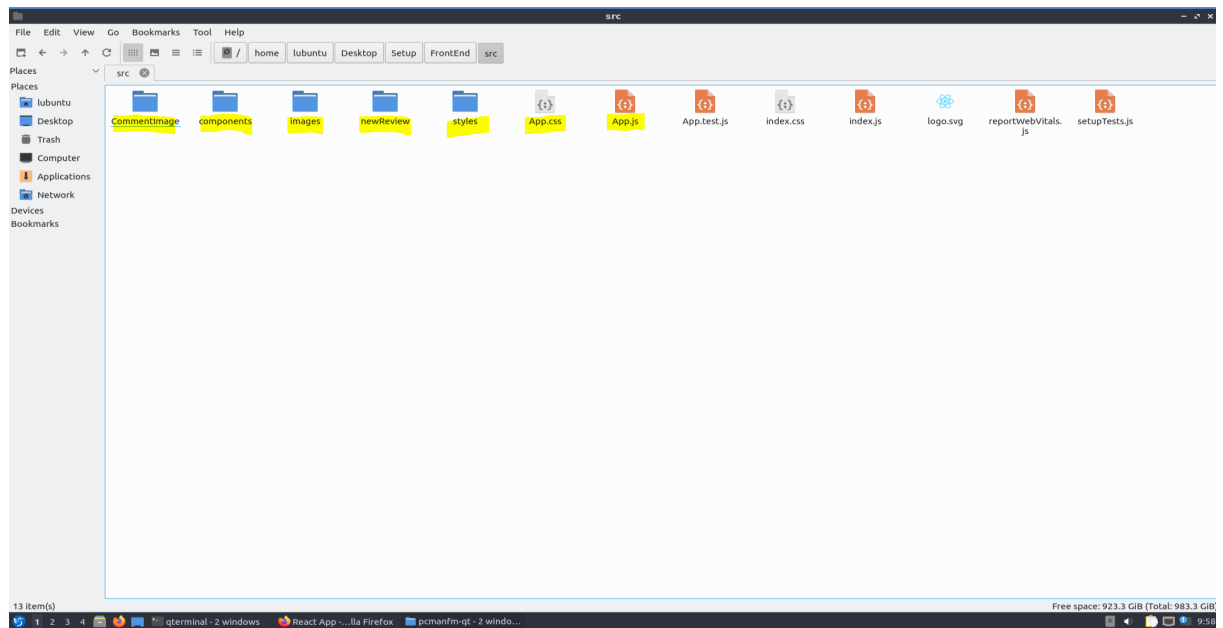
sudo npm install -g create-react-app

create-react-app my-app

11. Open the folder of the newly created app “**my-app**”, go to the my-app/src folder and remove the original Components and Styles folders (if these exists), as well as App.js, and App.css.

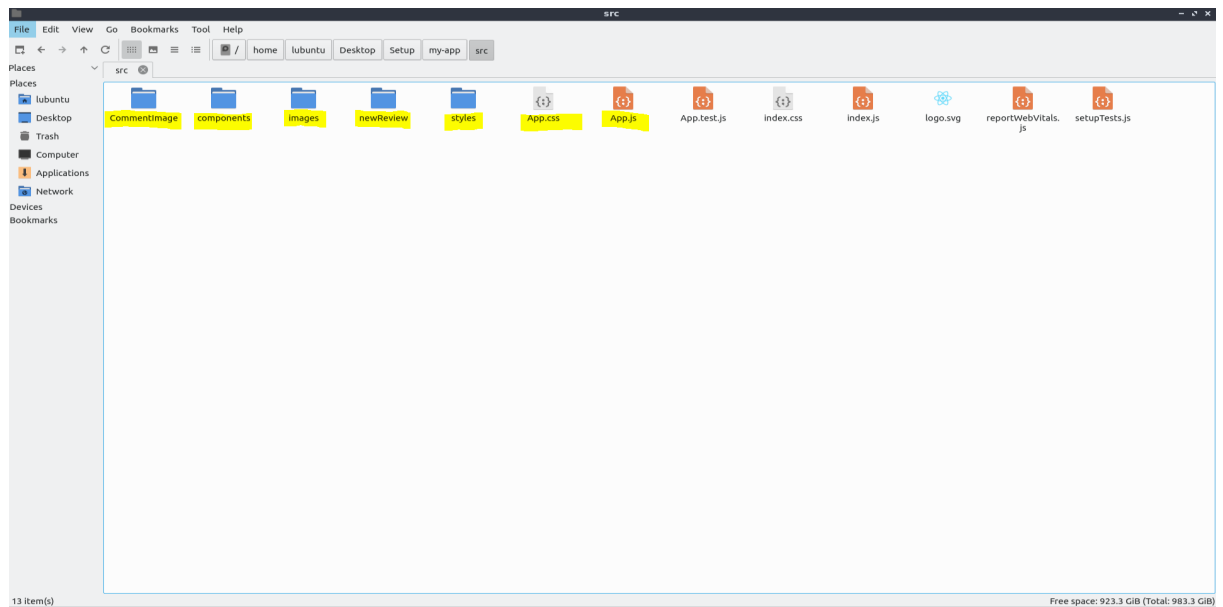


From our Setup folder, go to FrontEnd/src, copy the components, styles, newReview, images, and CommentImage folders, and app.js, app.css files. A total of 5 folders and 2 files should be copied.



See the above screenshot for all folders and files to copy.

Then we paste these to my-app/src. Now the my-app/src should look like below.



12. Go into the my-app directory in the terminal

```
cd my-app
```

13. import the required packages through terminal in one single command:

```
npm install @mui/icons-material @mui/material @emotion/styled @emotion/react d3  
react-toastify react-confetti @ramonak/react-progress-bar axios react-router-dom  
json-bigint react-slick slick-carousel validator
```

```
lubuntu@lubuntu2004:~$ cd Desktop/Setup
lubuntu@lubuntu2004:~/Desktop/Setup$ cd my-app
lubuntu@lubuntu2004:~/Desktop/Setup/my-app$ npm install @mui/icons-mater
ial @mui/material @emotion/styled @emotion/react d3 react-toastify react
-confetti @ramonak/react-progress-bar axios react-router-dom json-bigint
react-slick slick-carousel validator

added 94 packages, and audited 1578 packages in 34s

244 packages are looking for funding
  run 'npm fund' for details

6 high severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.
lubuntu@lubuntu2004:~/Desktop/Setup/my-app$ npm list
my-app@0.1.0 /home/lubuntu/Desktop/Setup/my-app
├── @emotion/react@11.10.6
├── @emotion/styled@11.10.6
├── @mui/icons-material@5.11.16
├── @mui/material@5.12.1
├── @ramonak/react-progress-bar@5.0.3
├── @testing-library/jest-dom@5.16.5
├── @testing-library/react@13.4.0
├── @testing-library/user-event@13.5.0
├── axios@1.3.6
├── d3@7.8.4
├── json-bigint@1.0.0
├── react-confetti@6.1.0
├── react-dom@18.2.0
├── react-router-dom@6.10.0
├── react-scripts@5.0.1
├── react-slick@0.29.0
├── react-toastify@9.1.2
├── react@18.2.0
├── slick-carousel@1.8.1
├── validator@13.9.0
└── web-vitals@2.1.4
```

14. Start the app, now the frontend should be running on localhost 3000.

```
npm start
```

Please make the browser window full screen to enjoy the ultimate movie finding experience on CinemaScope!