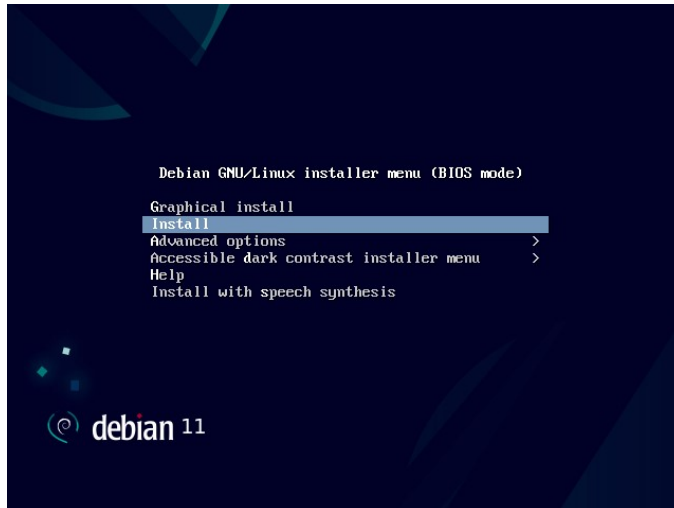


## English communication

### Mission 1 : Install Git and Docker on a linux environment

#### Step 1 : Install Linux Debian 11 with LVM partitionment



```
root@master:/test/A2SR/Course_1/app# df -Th
Sys. de fichiers      Type      Taille Utilisé Dispo Uti% Monté sur
udev                  devtmpfs   2,9G      0    2,9G   0% /dev
tmpfs                  tmpfs      595M    1,3M  593M   1% /run
/dev/mapper/master--vg-root ext4       20G    6,1G   13G  34% /
tmpfs                  tmpfs      3,0G    3,9M   2,9G   1% /dev/shm
tmpfs                  tmpfs      5,0M    4,0K   5,0M   1% /run/lock
/dev/sda1              ext2       470M    113M  333M  26% /boot
/dev/mapper/master--vg-var ext4       6,8G    2,1G   4,3G  33% /var
/dev/mapper/master--vg-home ext4       76G     97M   72G   1% /home
/dev/mapper/master--vg-tmp ext4       1,2G    3,0M   1,2G   1% /tmp
tmpfs                  tmpfs      595M    9,1M  586M   2% /run/user/1000
```

#### Step 2 : Install Git

apt install git

we will need git to pull the following repository from github :

<https://github.com/mperochon/A2SR.git>

#### Step 3 : Install Docker Desktop

To install Docker Desktop, we need Docker Engine. Because it comes bundled with Docker Desktop for Linux. This is the easiest and quickest way to get started.

```
apt install gnome-terminal
apt install \
ca-certificates \
curl \
gnupg \
```

```
lsb-release

mkdir -p /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor -o
/etc/apt/keyrings/docker.gpg

echo \

"deb [arch=$(dpkg --print-architecture) signed-
by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/debian \

$(lsb_release -cs) stable" | tee /etc/apt/sources.list.d/docker.list >
/dev/null

chmod a+r /etc/apt/keyrings/docker.gpg

apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin
docker-compose-plugin

docker run hello-world
```

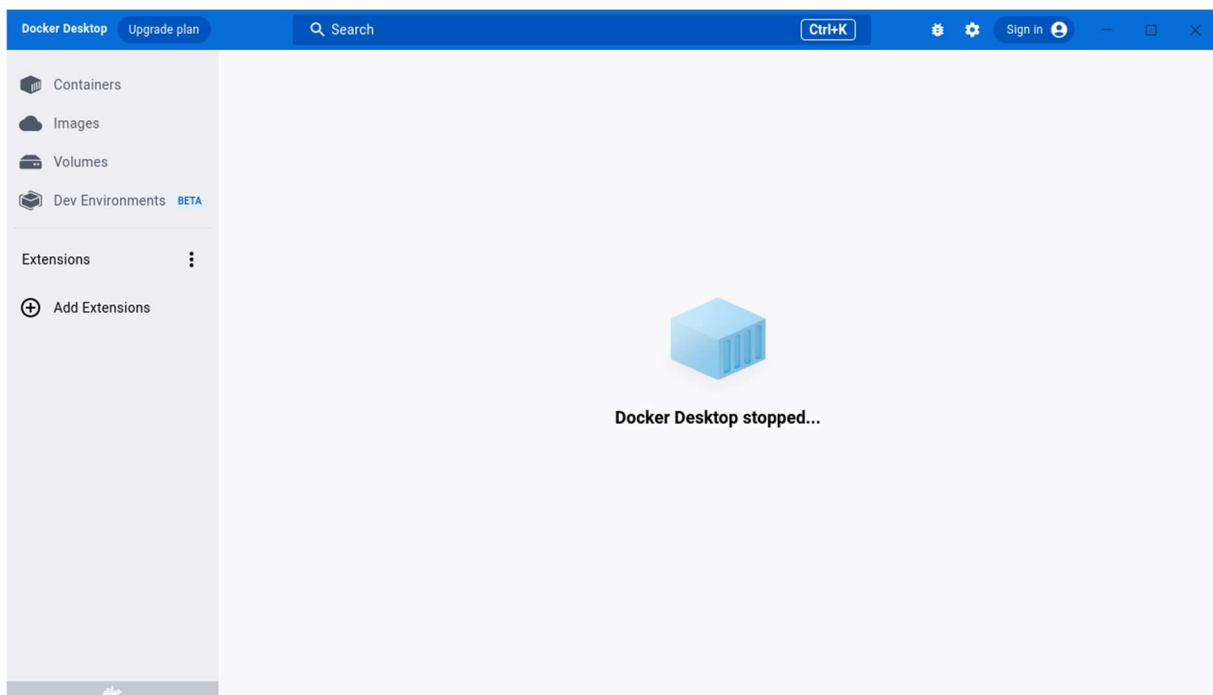
Now we must install the latest DEB package for Docker Desktop :

[https://desktop.docker.com/linux/main/amd64/docker-desktop-4.16.2-amd64.deb?utm\\_source=docker&utm\\_medium=webreferral&utm\\_campaign=docs-driven-download-linux-amd64](https://desktop.docker.com/linux/main/amd64/docker-desktop-4.16.2-amd64.deb?utm_source=docker&utm_medium=webreferral&utm_campaign=docs-driven-download-linux-amd64)

I downloaded the package with this link in my windows. I installed openssh-server and i transfered this package with Winscp. I was able to install it :

```
apt-get install ./docker-desktop-<version>-<arch>.deb
```

So we can run Docker Desktop :



#### Step 4 : Clone the repository github

git clone <https://github.com/mperochon/A2SR.git>

#### Step 5 : Complete the Dockerfile

```
GNU nano 5.4 Dockerfile *
# Complete the file :)

# Description : From used to create a base image
FROM node:latest

# Explain : it's an instruction who used to execute shell command in the new image
#RUN apk add --no-cache python2 g++ make

# Explain : identifies the working directory
WORKDIR /app

# Description : copy files and directories to the container
COPY . .

# Explain : This command install dependencies for the project
RUN yarn install --production

# Explain : this command run the node from index.js
CMD ["node", "src/index.js"]
```

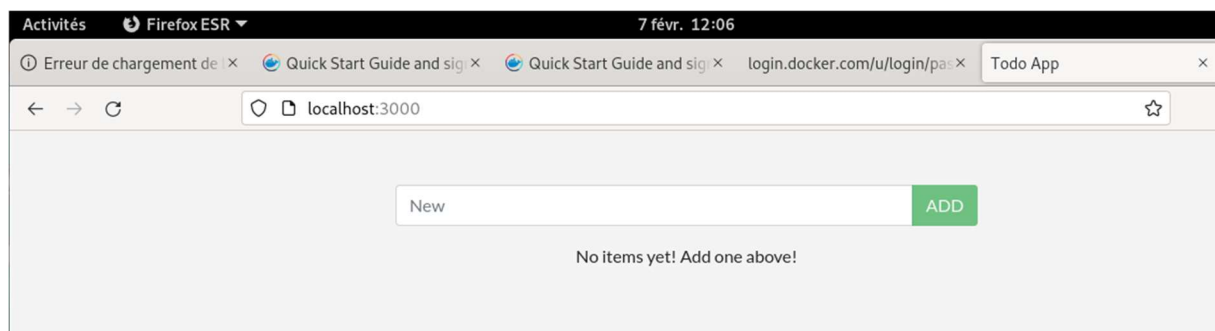
#### Step 5 :

In the repertory /A2SR/Course\_1/app

Docker build -t nodesimonjacquot .

. To specify to execute the command where you are

docker run -p 127.0.0.1 :3000:3000 nodesimonjacquot



## Mission 2 :

Step 1 : Make a modification in : src/static/js/app.js

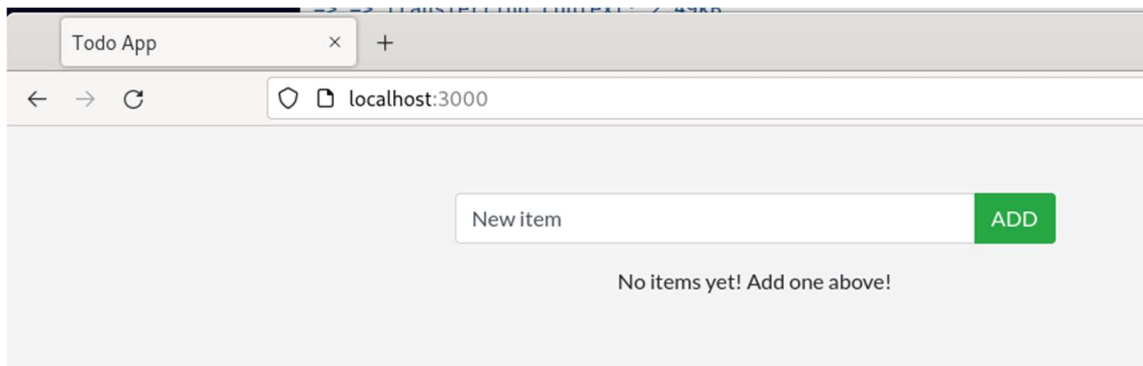
```
return (  
  <Form onSubmit={submitNewItem}>  
    <InputGroup className="mb-3">  
      <Form.Control  
        value={newItem}  
        onChange={e => setNewItem(e.target.value)}  
        type="text"  
        placeholder="New item"  
        aria-describedby="basic-addon1"  
      />  
      <InputGroup.Append>  
        <Button  
          type="submit"  
          variant="success"  
          disabled={!newItem.length}  
          className={submitting ? 'disabled' : ''}  
        >  
          {submitting ? 'Adding...' : 'ADD a new item'}  
        </Button>  
      </InputGroup.Append>  
    </InputGroup>  
  )
```

## Step 2 : Build and update the container

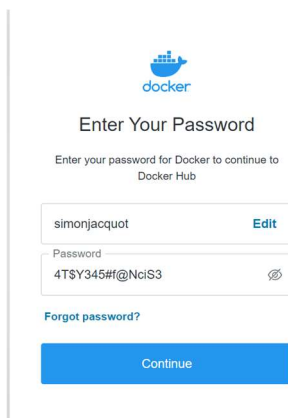
I Built again my image.

Docker build -t nodesimonjacquotv2 .

docker run -p 127.0.0.1 :3000:3000 nodesimonjacquotv2



## Step 3 : Create an account and a public registry



```
gnp --generate-key
```

```
pass init CBC69578943CCCD8F8265C972015F3A137BE43C6
```

```
choose a pass phrase : 1234567890
```

#### Step 4 : Push your image

```
docker login
```

```
username
```

```
password
```

```
docker tag nodesimonjacquotv2 simonjacquot/app
```

```
docker push simonjacquot/app
```

#### Step 5 : share your image to another group

```
OK
```

#### Step 6 : Pull the image from another group

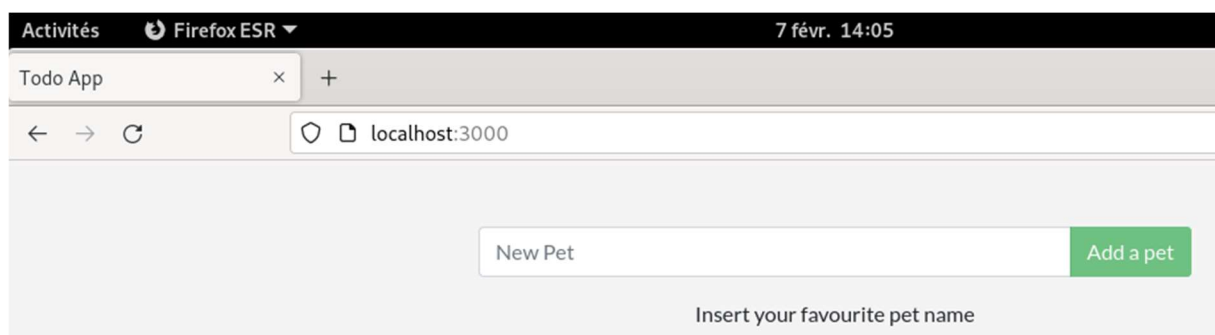
I downloaded the jose masse's image :

```
docker pull josemasse/petapp
```

#### Step 7 : Run the new container and check

And I run the image on web interface :

```
docker run -p 127.0.0.1 :3000:3000 josemasse/petapp
```



Mission 3 :

<https://github.com/simonjacquot/LPA2SR>