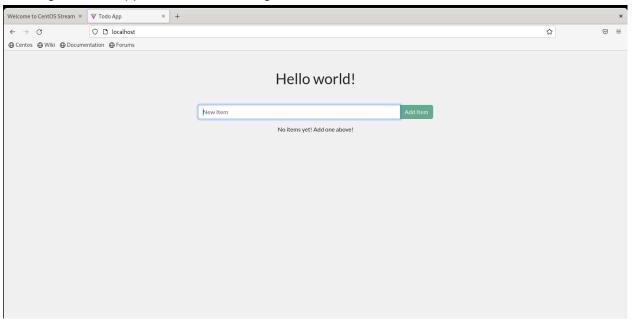
Problem 1:

Composing a docker compose todo app using traefik proxy and react frontend with node for the backend with mysql database and phpmyadmin

First cloning the repo into a todo file

git clone https://github.com/docker/getting-started-todo-app

Running the todo app to check its running



Problem 2:

First creating the volume called my_vol

```
[root@www todo]# docker volume ls
DRIVER VOLUME NAME
local my_vol
[root@www todo]#
```

Then attaching it to my_nginx container

```
nvalid argument "-dit" for "--mount" flag: invalid field '-dit' must be a key=value pair
ee 'docker container run --help'.
root@www todo]# docker container run -d -it --mount type=volume,src=my_vol,target=/usr/share/nginx/html --name my_nginx nginx
doiid4a7bc98d8c65ec7bc72a8240958a46e4d6fibb426393587f707ce07e0
```

Then editing theindex.html file inside the container

```
[root@www todo]# docker container exec -it my_nginx /bin/sh
# ls
bin boot dev docker-entrypoint.d docker-entrypoint.sh etc home lib lib64 media mnt opt proc root run sb
# cd /usr/share/nginx
# ls
html
# cd htmls
/bin/sh: 4: cd: can't cd to htmls
# cd html
# ls
50x.html index.html
# echo "HELLO WORLD EDITING NGINX" > index.html
# exit
[root@www todo]# ls
backend client compose.yml Dockerfile LICENSE README.md
[root@www todo]# docker volume ls
DRIVER VOLUME NAME
local my_vol
[root@www todo]# 

[]
```

Removing the container

```
[root@www todo]# docker container rm -f my_nginx
my_nginx
[root@www todo]#
```

Creating a new container with port mapping 8080:80

Accessing it persisting the previous edit



First creating a network with driver of bridge to enable connection between containers

```
[root@www_todo]# docker network create --driver=bridge nginx network
67b772a270e9e7ac48f16fd1bc53aa554f759dea52850509d4a6659b0d0ea486
[root@www todo]# docker network ls
NETWORK ID
              NAME
                                         SCOPE
761cd6b92388
              bridge
                               bridge
                                         local
                                         local
ce8a422d1b71
              host
                               host
67b772a270e9
              nginx_network
                               bridge
                                         local
406a01815a13
              none
                               null
                                         local
fb3a58fa0b1d
               todo default
                               bridge
                                         local
```

Running both containers with the same network

```
[root@www todo]# docker container run -itd -p 4000:80 --network=nginx_network --name nginx_network_1 nginx
700ed7482cbfa382f00df5280bcaae9717e7058bf9e5664765a34f48495cd4bc
[root@www todo]# docker container run -itd --network=nginx_network --name nginx_network_2 nginx
bc023a7c09528ffd2044a622c04e6b9356ae5133111b544ed681a52fb86f744c
```

Finding the ip address using inspect of nginx_network_2

```
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```

Then finally executing bash into nginx_network_1 and curl on the ip:80