Docker Instructions

Step 0:

We have many issues in running homechef application in different/same environment.
Our Aim is to make sure our application is running 24/7 all the time.

For that we should use docker.

Your understanding:

Docker -> technology
Dockerfile -> Instructions of how to convert your application source code to docker image
docker image -> It contains small OS + your application only.
you can share this image anywhere, it will run always in any OS, anytime.

docker container -> when you run the image -> your application start running.
This is called container.

Note: we can create multiple containers from single image.
I mean if you run the image multiple time, multiple containers wil be running.

Step 1:

docker build command is used to Convert your source code to docker image
go to the directory where Dockerfile is there.
run "ls" command to verify the Dockerfile

docker build --network=host -t homechef .
(or)
docker build -t homechef .

-t means tagging name to your docker image.
. means it look for Dockerfile in the current directory

On Successfull build , image will be created.
make sure no error is there in the log

Step 2:

To display all the images
docker image ls

To display only homechef image

docker image ls | grep homechef

Step 3:

To run the docker image. The last homechef is your image name.
--name can be anything as your wish

docker run -p 5000:5000 --name myhomechef homechef

Now your application started running

Example:

```
P62427:homechef karthikey.dhandapani$ docker run -p 5000:5000 --name homechef  homechef
 * Serving Flask app "app" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 208-424-500
```

Step 4:

Verify your container
docker ps

Step 5:

Open browser :
http://localhost:5000/login
for windows use 192.168.99.100

Test/use your application

Step 6:

Stop the container using the name
(use the same name which used in the docker run --name).

docker stop myhomechef

run below command to delete the container
docker rm myhomechef

Step 7:

You tested your docker image in your local ,
how to share it to your team mates ???
this is homework for you