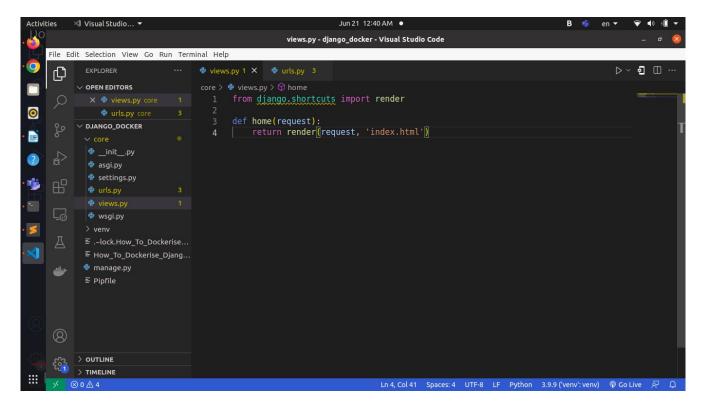
- 1 create a project folder
- 2 go to the project from command line
- 3 install virtual environment for python with 'python3 -m venv venv'
- 4 activate the virtual environment 'pipenv shell'
- 5 install django with 'pip install django'
- 6 install django admin panel with 'django-admin startproject core .'
- 7 Add new file 'views.py' to the 'cofe' project folder

from django.shortcuts import render

def home(request):
 return render(request, 'index.html')



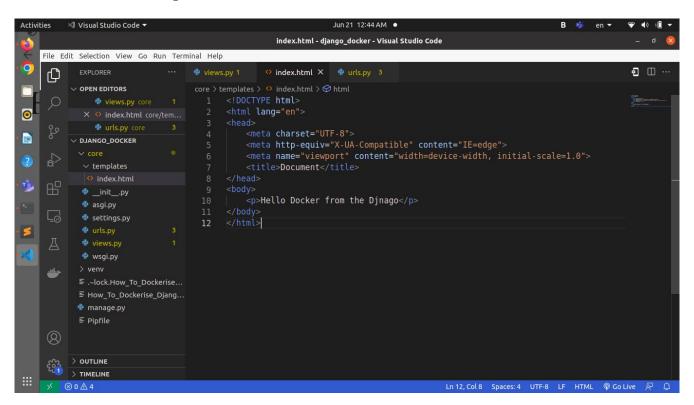
8 – Add new route to the 'urls.py'

```
from django.contrib import admin from django.urls import path

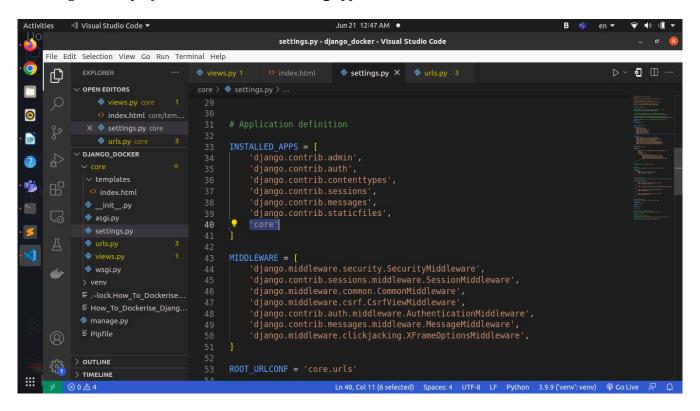
from . import views

urlpatterns = [
path('admin/', admin.site.urls),
path('', views.home),
]
```

9 – Add new folder 'templates to the 'core' folder and add new file 'index.html'



10 – Register the project folder 'core' to 'settings.py'



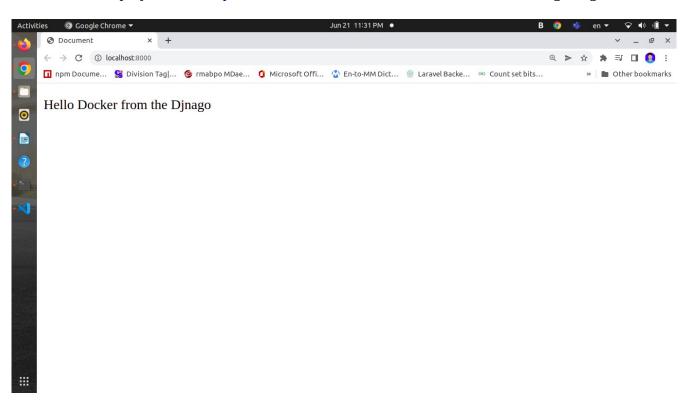
11 – Run the Project with

'python3 manage.py runserver 127.0.0.1:8000'

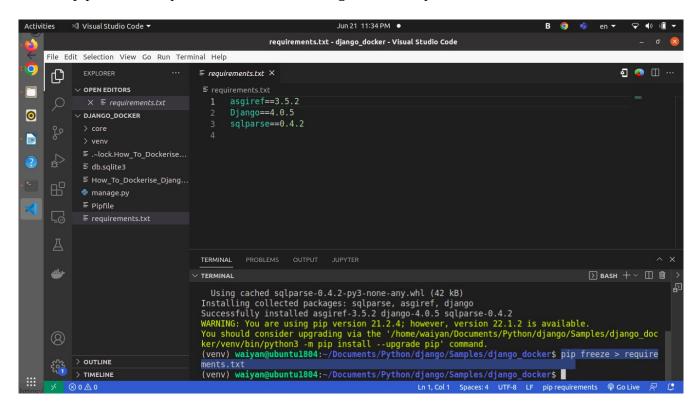
12 – It will run at the command line like the following image



11 – Browse the project with 'http://127.0.0.1:8000/ 'and it will tun like the following image



12 – Prepare Django Package list for the App. Go to the project folder and run the following "pip freeze > requirements.txt" and it will generate "requirements.txt"



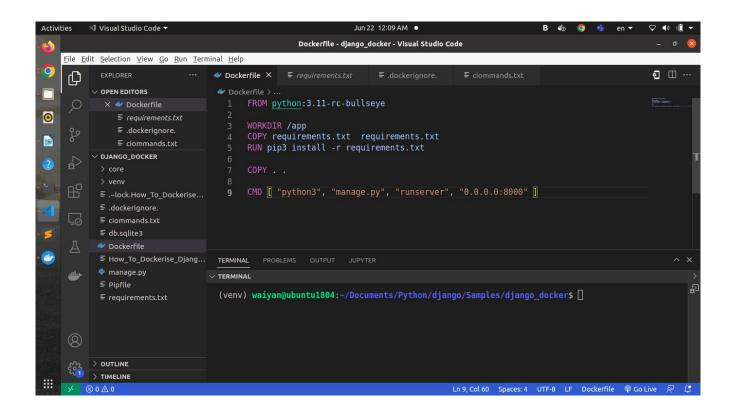
13 – Add docker file "Dockerfile" and docker ignore file ".dockerignore. to the project

```
FROM python:3.11-rc-bullseye

WORKDIR /app
COPY requirements.txt requirements.txt
RUN pip3 install -r requirements.txt

COPY . .

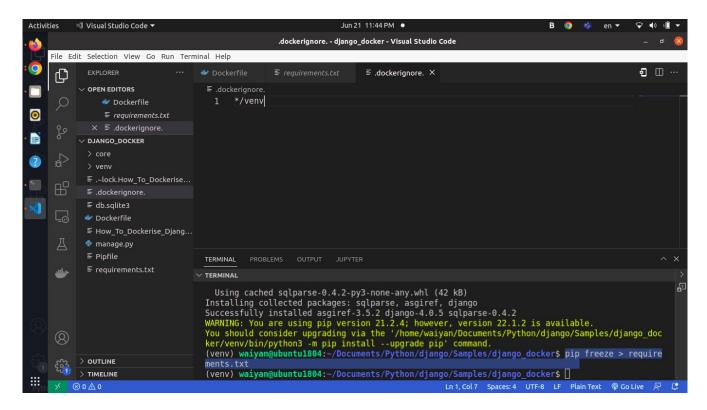
CMD [ "python3", "manage.py", "runserver", "0.0.0.0:8000" ]
```



.dockerignore.

File name start with dot and end with dot

*/venv



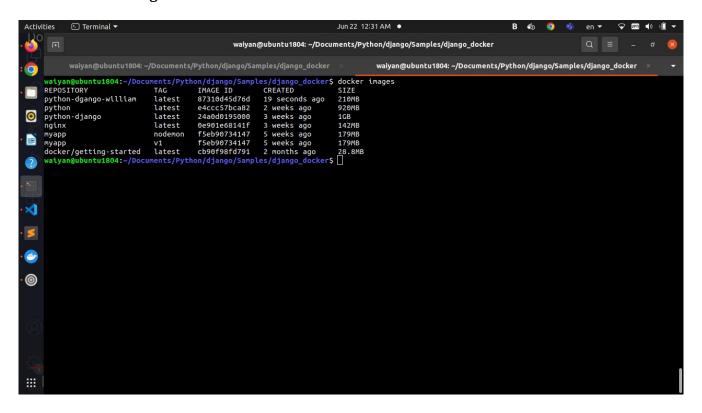
14 – Check the Docker Commands to run at the **commmands.txt** file at the project

docker build --tag python-dgango-william . docker run --publish 8000:8000 python-dgango-william

15 – Create the Docker image with

"docker build --tag python-dgango-william."

16 – Check the Docker image at Docker Desktop or at command line "docker images"



17 – run the docker image (Create the docker container) with "docker run --publish 8000:8000 python-dgango-william" and check the result at the browser with "http://localhost:8000/"

