Storing image in container and then pushing it to Docker Hub

Step 1: Install Django

```
PS C:\Users\NIDHISHARMA\Desktop\Django> pip install django
Collecting django
  Downloading Django-4.2-py3-none-any.whl (8.0 MB)
                                           8.0/8.0 MB 6.0 MB/s eta 0:00:00
Collecting asgiref<4,>=3.6.0
  Downloading asgiref-3.6.0-py3-none-any.whl (23 kB)
  Downloading sqlparse-0.4.3-py3-none-any.whl (42 kB)
                                           42.8/42.8 kB ? eta 0:00:00
Collecting tzdata
  Downloading tzdata-2023.3-py2.py3-none-any.whl (341 kB)
                                           341.8/341.8 kB 5.3 MB/s eta 0:00:00
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.6.0 django-4.2 sqlparse-0.4.3 tzdata-2023.3
```
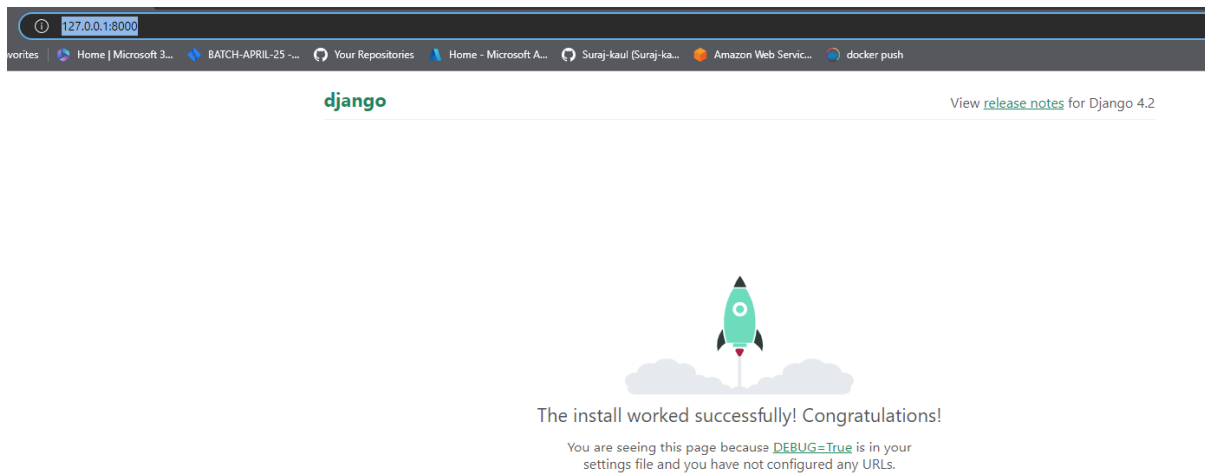
Step 2: Create a Project and run it using command "python manage.py runserver"

```
PS C:\Users\NIDHISHARMA\Desktop\Django> django-admin startproject myproject
PS C:\Users\NIDHISHARMA\Desktop\Django> cd .\myproject\
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

Run 'python manage.py migrate' to apply them.
Django version 4.2, using settings 'myproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```
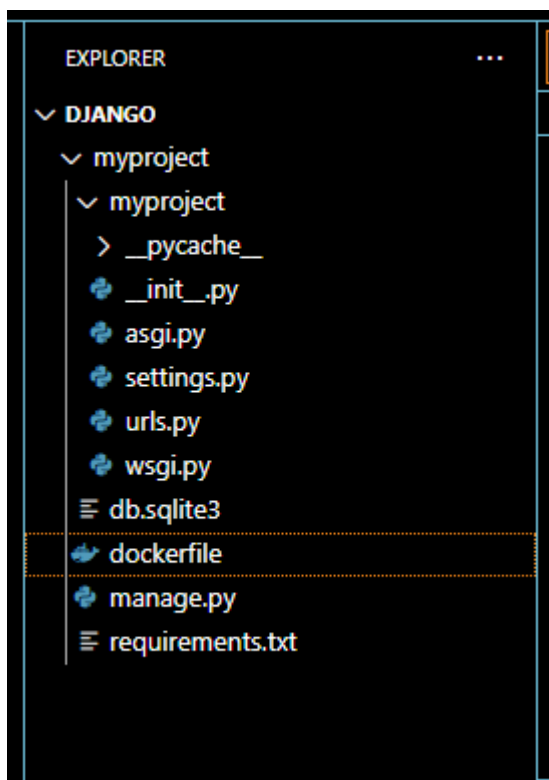
Copy the URL and run it on browser.

The install worked successfully! Congratulations!

You are seeing this page because DEBUG=True is in your settings file and you have not configured any URLs.

Step 3: Now create Docker file in your current project.

Step 5: Now run "pip freeze > requirements.txt" command to add requirement.txt file in your project.


```
PS C:\Users\NIDHISHARMA\Desktop\Django> pip freeze > requirements.txt
```

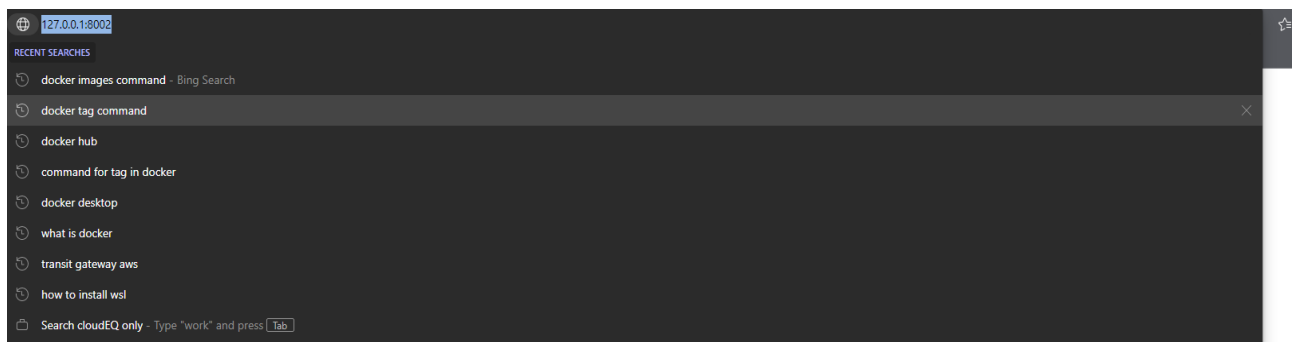Step 6 : Now run command "docker image" to see all images.

```
PS C:\Users\NIDHISHARMA\Desktop\Django> docker images
e specified.
REPOSITORY     TAG        IMAGE ID     CREATED     SIZE
```

Step 7: Run command "Docker Build" to create a image.

```
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> docker build .
[+] Building 17.5s (10/10) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 414B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3.10.0-alpine3.15
 => [1/5] FROM docker.io/library/python:3.10.0-alpine3.15@sha256:359a32afa8c60b473a9131c6331589717afdad8081baf4d779dc2b41fcd4b8df
 => => resolve docker.io/library/python:3.10.0-alpine3.15@sha256:359a32afa8c60b473a9131c6331589717afdad8081baf4d779dc2b41fcd4b8df
 => => sha256:359a32afa8c60b473a9131c6331589717afdad8081baf4d779dc2b41fcd4b8df 1.65kB / 1.65kB
 => => sha256:190fcab705c0c5c1b11fddf336fb243e5028f9b2dceb016cae1f5c98bca25480 1.37kB / 1.37kB
 => => sha256:dd04d4f70e7c3fc372ddf5a78d703edcd80d8f51a8fe35f7c7ca64840fae3747 7.44kB / 7.44kB
```

Step 8: Now to put that image in container run command "Docker run -d -p 8002:8000" where 8000 is our current running port and 8002 is a port where we are willing to run our project.

```
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> docker images
REPOSITORY     TAG        IMAGE ID       CREATED         SIZE
<none>         <none>     995499ba1aee   10 seconds ago  88MB
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> docker run -d -p 8002:8000 995499ba1aee
ffb9d708c0ebe34b20c0e1994f166bd0a1d3901c8e8f468d26f37ab288be636f
```

127.0.0.1:8002

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The install worked successfully! Congratulations!

You are seeing this page because DEBUG=True is in your
settings file and you have not configured any URLs.

Step 9: Run "Docker login" command in order to push your project on Docker Hub.

```
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: nidhisharma28
Password:
Login Succeeded
```

Step 10 : Now give tag and Push your project.

Docker tag <image id> <repo name>

```
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> docker tag 995499ba1aee nidhisharma28/docker-test1
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject> docker push nidhisharma28/docker-test1
Using default tag: latest
The push refers to repository [docker.io/nidhisharma28/docker-test1]
973a8083b3f3: Pushed
fa41f4588b5c: Pushed
5f824927dc7b: Pushed
5aa83845563b: Pushed
d6a5e629f2b8: Mounted from library/python
10c7d94a5e7e: Mounted from library/python
79e750730574: Mounted from library/python
f57e81d89e60: Mounted from library/python
8d3ac3489996: Mounted from library/python
latest: digest: sha256:b894433167d18d3eabd0947e9cc7b0e7de89df9b6b81ab97ce7e4ebe1ca4fa53 size: 2201
PS C:\Users\NIDHISHARMA\Desktop\Django\myproject>
```

🌐 nidhisharma28 / **docker-test1**

Description

This repository does not have a description ✏️

🕐 Last pushed: 40 minutes ago

Tags

🛡️ IMAGE INSIGHTS INACTIVE
Activate

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
🟢 latest	🐧	Image	---	40 minutes ago

See all   Go to Advanced Image Management

TAG

latest

Last pushed 40 minutes ago by nidhisharma28

`docker pull nidhisharma28/docker…` 📋

DIGEST	OS/ARCH	SCANNED	LAST PULL	COMPRESSED SIZE ⓘ
b894433167d1	linux/amd64	---	---	33.41 MB

nidhisharma28/docker-test1:latest

Delete Tag

DIGEST: sha256:b894433167d18d3eabd0947e9cc7b0e7de89df9b6b81ab97ce7e4ebe1ca4fa53

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE
linux/amd64	33.41 MB	5 minutes ago by nidhisharma28	Image

Image Layers Vulnerabilities

IMAGE LAYERS ⓘ

#	Layer	Size
1	ADD file ... in /	2.69 MB
2	CMD ["/bin/sh"]	0 B
3	ENV PATH=/usr/local/bin:/usr/local/sbin:/usr/local/...	0 B
4	ENV LANG=C.UTF-8	0 B
5	/bin/sh -c set -eux; apk	662.4 KB
6	ENV GPG_KEY=A035C8C19219BA821ECEA86B64E628F8D684696D	0 B
7	ENV PYTHON_VERSION=3.10.0	0 B
8	/bin/sh -c set -ex &&	11.15 MB

Command

ADD file:9233f6f2237d79659a9521f7e390df217cec49f1a8aa3a12147bbca1956acdb9 in /

_____END_____