# Documentation

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#### The Process

# Git hub Django→ Docker container→docker hub

# 1.Create a new folder:



- Go to file explorer
- Select the location to create a new file
- Click on new
- Give a name to the file

# 2.open git bash and check directory:

Changing of directory to where the file is located

```
6LABSYSTEM13@6LABSYSTEM13 MINGW64 ~ (main) $ cd d:
```

Changing of directory to the file Nani

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d
$ cd Nani
```

# 3.Cloning of Git:

- It is used to copy local copy to repository
- Git clone is the command in Git version
- SYNTAX:

git clone https://github.com/username/repository.git

# **EXAMPLE:**

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 <mark>/d/Nani</mark>
$ git clone https://github.com/rajasoxit/batch02-django-app.git
fatal: destination path 'batch02-django-app' already exists and is not an empty directory.
```

# 4. Changing directory:

Changing of directory to the file located

# 6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani \$ cd batch02-django-app

# 5.Docker ps:

- It is used to show the running process
- EXAMPLE: docker ps

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani/batch02-django-app (main)
$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
```

#### 6.Docker Build:

- It is used to create an image that we are going to build
- It is used to create container image
- EXAMPLE: Docker build -t Django-app .
- '' is used to bring all files in the folder to build
- It creates docker image in the dockerfile

#### 7.Docker Image:

- Docker image is used to read-only template
- It servers as blueprint for creating a Docker container

# 8.Docker Run:

It is used to Run the build image in the dockerfile

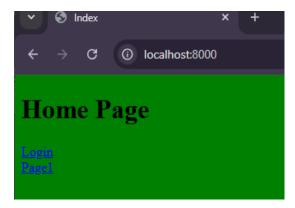
• Docker run is used in Docker file to execute and configure the docker image

**EXAMPLE:** Docker run -p 8000:8000 django-app

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani/batch02-django-app (main)
$ docker run -p 8000:8000 batch02-django-app
```

# 9. Opening of browser:

Open the browser <a href="https://localhost:8000/">https://localhost:8000/</a> to see the image the was developed



# 10.Visual Studio Code:

- Open VS code
- Open the with latest created folder
- Go to templates
- Select index.html
- It shows the code that we previously coded

Changing the "Home Page" to "TEST" and bgcolor "Green" to "purple"

```
EXPLORER ...

OPEN EDITORS

BATCHO2-DJANGO-APP

✓ ApplicationName

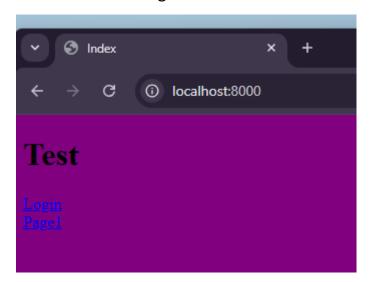
〉 __pycache___
〉 migrations

♣ __init__py
♣ admin.py
♣ admin.py
♣ models.py
♣ tests.py
♣ views.py
〉 ProjectName
✓ display_table_data.h...
♠ index.html M

✓ index.html M
```

# 11.open browser:

To see the changed file



# 12.Again build:

- Build the changed image
- EXAMPLE: docker build -t Django-app

13.Again run:

• Run the image that we build previously

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani/batch02-django-app (main)

$ docker run -n 8000:8000 batch02-django-app
```

\$ docker run -p 8000:8000 batch02-django-app EXAMPLE: docker run -p 8000:8000 django-app

# 14.Docker hub:

- Create a docker hub account
- Login to docker hub
- Create a Repository in the docker hub



bankanani26@gmail.com Edit profile c

Community User

EXAMPLE: batch02-django-app

# 15.Docker tag:

 It is used to create a tag to the docker image SYNTAX:

```
docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]
```

- Source Image: the image that we have to create
- Target Image: the image for we have taken

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani/batch02-django-app (main)
$ docker tag batch02-django-app naniviratian/nani
```

EXAMPLE: docker tag django-app rajasoxit/batch02-django-app

# 16.Docker Login:

- It is used to login into the docker
- It authenticating users to docker registers
- Pushing and pulling purpose

```
6LABSYSTEM47@6LABSYSTEM47 MINGW64 /d/Nani/batch02-django-app (main)

$ docker login
Authenticating with existing credentials... [Username: naniviratian]

i Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
```

Example: docker login

# 17.Docker Push:

- It is used to push the image to a registry
- Deploy them to different environments or to the others

Syntax: docker push NAME[:TAG]

EXAMPLE: docker push Nani/batch02-django-app

```
Stocker push naniviratian/nani
Using default tag: latest
The push refers to repository [docker.io/naniviratian/nani]
7d1090d2899a: Pushed
48344264c6b7: Pushed
765ef9c81879: Pushed
254e724d7786: Pushed
00dacfde973a: Pushed
4517f7d444fcf: Pushed
92e5f9e5de64: Pushed
d15668d6a1de: Pushed
d15668d6a1de: Pushed
latest: digest: sha256:4db5124c830208a1c6c504ee5b62d74d169ad083e392bb4de505afac28b801a0 size: 856
```