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Project-1

Command:

```
user@BIPRO MINGW64 ~ (master)
$ git clone https://github.com/docker/getting-started-app

user@BIPRO MINGW64 ~ (master)
$ cd getting-started-app/

user@BIPRO MINGW64 ~/getting-started-app (main)
$ vi Dockerfile

user@BIPRO MINGW64 ~/getting-started-app (main)
$ cat Dockerfile

FROM node:18-alpine
WORKDIR /app
COPY . .
RUN yarn install -production
CMD ["node", "src/index.js"]
EXPOSE 3000

user@BIPRO MINGW64 ~/getting-started-app (main)
$ docker build -t nodeapplicaton .

user@BIPRO MINGW64 ~/getting-started-app (main)
$ docker images
REPOSITORY              TAG        IMAGE ID        CREATED         SIZE
nodeapplicaton          latest     ef564f02a0e1    4 minutes ago   257MB


user@BIPRO MINGW64 ~/getting-started-app (main)
$ docker run -p 3000:3000 nodeapplicaton
Using sqlite database at /etc/todos/todo.db
```
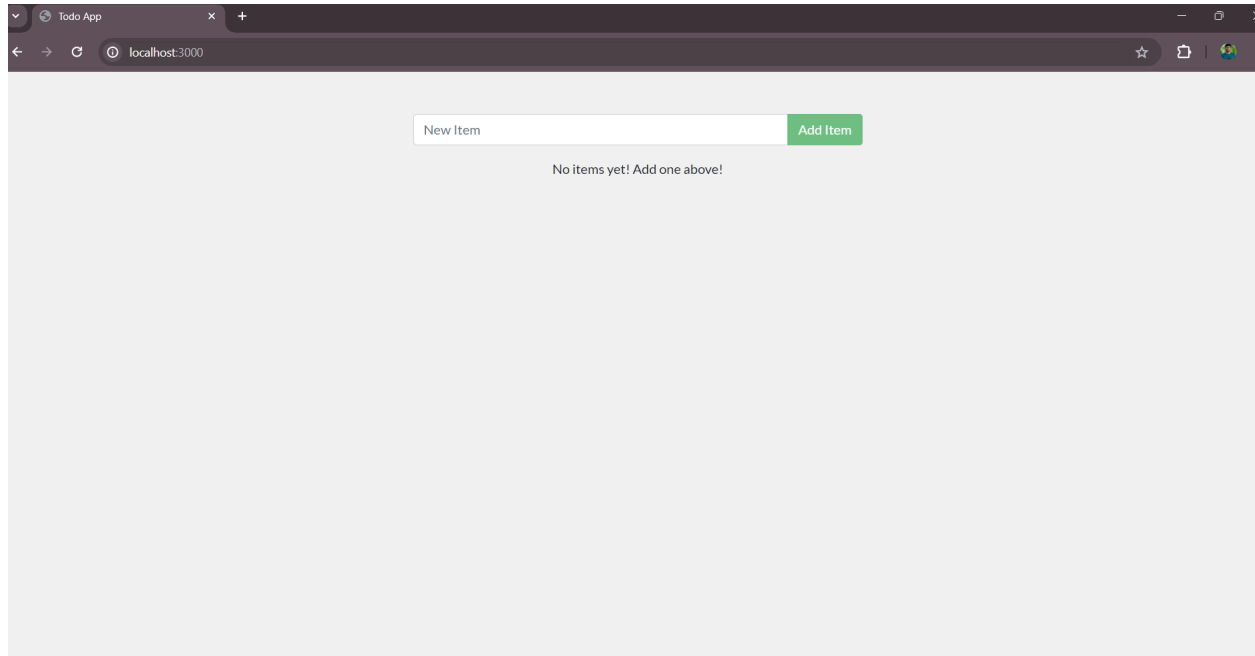
Listening on port 3000

OUTPUT:

Project-2:

Command:

```
user@BIPRO MINGW64 ~ (master)
$ git clone https://github.com/cloudacademy/static-website-example

user@BIPRO MINGW64 ~ (master)
$ cd static-website-example/

user@BIPRO MINGW64 ~/static-website-example (master)
$ vi Dockerfile
user@BIPRO MINGW64 ~/static-website-example (master)


$ cat Dockerfile
FROM ubuntu:latest
RUN apt update -y
RUN apt install apache2 -y
COPY . /var/www/html/
EXPOSE 80
CMD ["/usr/sbin/apache2ctl","-D","FOREGROUND"]



user@BIPRO MINGW64 ~/static-website-example (master)
$ docker build -t apacheassignment .

user@BIPRO MINGW64 ~/static-website-example (master)
$ docker images
REPOSITORY          TAG        IMAGE ID       CREATED          SIZE
apacheassignment    latest     57fea66b5f1f   33 seconds ago   229M
nodeapplicaton      latest     ef564f02a0e1   47 minutes ago   257M

user@BIPRO MINGW64 ~/static-website-example (master)
$ docker run -p 8080:80 apacheassignment
```
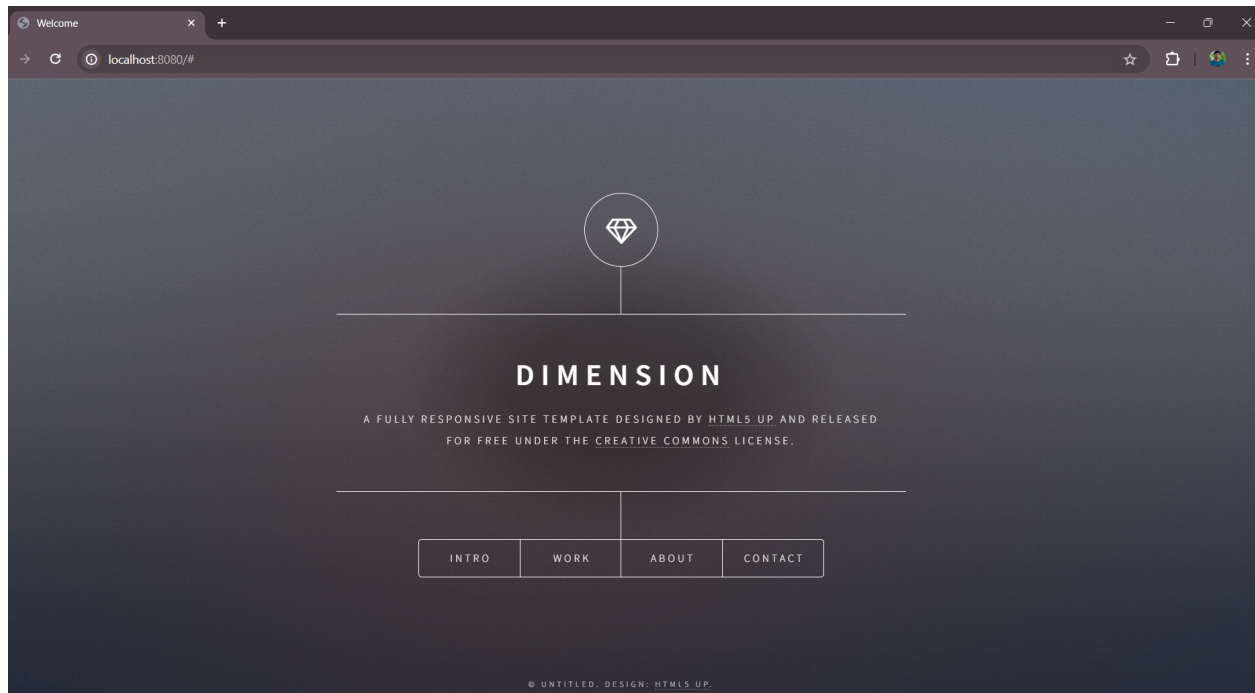
Project-3:

Command:

```
user@BIPRO MINGW64 ~ (master)
$ git clone https://github.com/ngallot/docker-python-helloworld

user@BIPRO MINGW64 ~ (master)
$ cd docker-python-helloworld/

user@BIPRO MINGW64 ~/docker-python-helloworld (master)
$ vi Dockerfile

user@BIPRO MINGW64 ~/docker-python-helloworld (master)
$ docker build -t pythonapp .

user@BIPRO MINGW64 ~/docker-python-helloworld (master)
$ python main.py
Hello Docker world!
```

Bonus Part

Command:

```
user@BIPRO MINGW64 ~ (master)
$ git clone https://github.com/digitalocean/sample-python

user@BIPRO MINGW64 ~ (master)
$ cd sample-python/

user@BIPRO MINGW64 ~/sample-python (main)
$ ls
Procfile  README.md  requirements.txt  server.py

user@BIPRO MINGW64 ~/sample-python (main)
$ vi Dockerfile
user@BIPRO MINGW64 ~/sample-python (main)
$ cat Dockerfile
```

```
user@BIPRO MINGW64 ~/sample-python (main)
$ docker build -t pythonbonus .


user@BIPRO MINGW64 ~/sample-python (main)
$ cat Dockerfile
FROM pyhton:3.7-slim
COPY requirements.txt ./requirements.txt
RUN pip install -r requirements.txt
COPY server.py ./server.py
ENTRYPOINT["pyhton", "server.py"]


user@BIPRO MINGW64 ~/sample-python (main)
$ python server.py
127.0.0.1 - - [03/Jun/2024 06:19:42] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [03/Jun/2024 06:19:43] "GET /favicon.ico HTTP/1.1" 200
-
127.0.0.1 - - [03/Jun/2024 06:19:54] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [03/Jun/2024 06:19:55] "GET /favicon.ico HTTP/1.1" 200
-
```

OUTPUT:

```json
{
    "Id": "c40330a9ccb255f61df75ba0b15588f6efd7acf1f3881c8fb6643b83b87ecf09",
    "Created": "2024-06-03T00:14:46.806794419Z",
    "Path": "python",
    "Args": [
        "server.py"
    ],
    "State": {
        "Status": "running",
        "Running": true,
        "Paused": false,
        "Restarting": false,
        "OOMKilled": false,
        "Dead": false,
        "Pid": 3374,
        "ExitCode": 0,
        "Error": "",
        "StartedAt": "2024-06-03T00:14:49.08358249Z",
        "FinishedAt": "0001-01-01T00:00:00Z"
    }
```

Project-4:

Command:

```
user@BIPRO MINGW64 ~/php-docker-apache-example (master)
$ cat Dockerfile
FROM php:7.0-apache
COPY myapp /var/www/html/
RUN a2enmod rewrite
EXPOSE 80

user@BIPRO MINGW64 ~/php-docker-apache-example (master)
$ docker build -t simplephp .

user@BIPRO MINGW64 ~/php-docker-apache-example (master)
$ docker images
REPOSITORY            TAG        IMAGE ID       CREATED
SIZE
phpserver             latest     283687649044   2 minutes ago
368MB
simplephp             latest     3b35f56fe5b5   13 minutes ago
453MB
pythonbonus           latest     21aad0d1e7e8   About an hour ago
131MB
pythonapp             latest     e7e2d4d99d74   About an hour ago
131MB
apacheassignment      latest     57fea66b5f1f   2 hours ago
229MB
nodeapplicaton        latest     ef564f02a0e1   2 hours ago
257MB

user@BIPRO MINGW64 ~/php-docker-apache-example (master)
$ docker run -p 8080:80 simplephp
```

Output
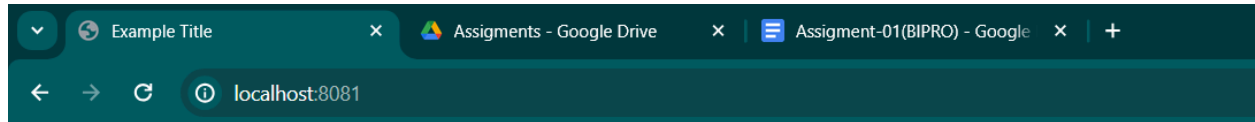
Hello. Today is Monday the 3rd.

Extra Part

Command:

```
user@BIPRO MINGW64 ~ (master)
$ git clone https://github.com/banago/simple-php-website

user@BIPRO MINGW64 ~ (master)
$ cd simple-php-website/

user@BIPRO MINGW64 ~/simple-php-website (master)
$ vi Dockerfile

user@BIPRO MINGW64 ~/simple-php-website (master)
```

```
$ docker build -t simplephp .

user@BIPRO MINGW64 ~/simple-php-website (master)
$ docker images
REPOSITORY            TAG        IMAGE ID        CREATED
SIZE
simplephp             latest     3b35f56fe5b5    26 seconds ago
453MB
pythonbonus           latest     21aad0d1e7e8    49 minutes ago
131MB
pythonapp             latest     e7e2d4d99d74    About an hour ago
131MB
apacheassignment      latest     57fea66b5f1f    About an hour ago
229MB
nodeapplicaton        latest     ef564f02a0e1    2 hours ago
257MB

user@BIPRO MINGW64 ~/simple-php-website (master)
$ docker ps
CONTAINER ID    IMAGE                COMMAND                     CREATED
STATUS               PORTS                    NAMES
c40330a9ccb2    pythonbonus:latest   "python server.py"          47
minutes ago      Up 47 minutes
priceless_ganguly
6c86c997f836    apacheassignment     "/usr/sbin/apache2ct..."    About
an hour ago   Up About an hour    0.0.0.0:8080->80/tcp
nice_grothendieck

user@BIPRO MINGW64 ~/simple-php-website (master)
$ docker stop 6c86c997f836
6c86c997f836

user@BIPRO MINGW64 ~/simple-php-website (master)
$ docker run -p 8080:80 simplephp
AH00558: apache2: Could not reliably determine the server's fully
qualified domain name, using 172.17.0.2. Set the 'ServerName'
directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully
qualified domain name, using 172.17.0.2. Set the 'ServerName'
```

```
directive globally to suppress this message
[Mon Jun 03 01:02:51.668023 2024] [mpm_prefork:notice] [pid 1]
AH00163: Apache/2.4.54 (Debian) PHP/7.4.33 configured -- resuming
normal operations
[Mon Jun 03 01:02:51.668559 2024] [core:notice] [pid 1] AH00094:
Command line: 'apache2 -D FOREGROUND'

user@BIPRO MINGW64 ~/simple-php-website (master)
$ cat Dockerfile

FROM php:7.4-apache
COPY . /var/www/html/
RUN a2enmod rewrite
EXPOSE 80
```

Output:

Simple PHP Website

Home | About Us | Products | Contact

Home

This is **home** page. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

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v3.1