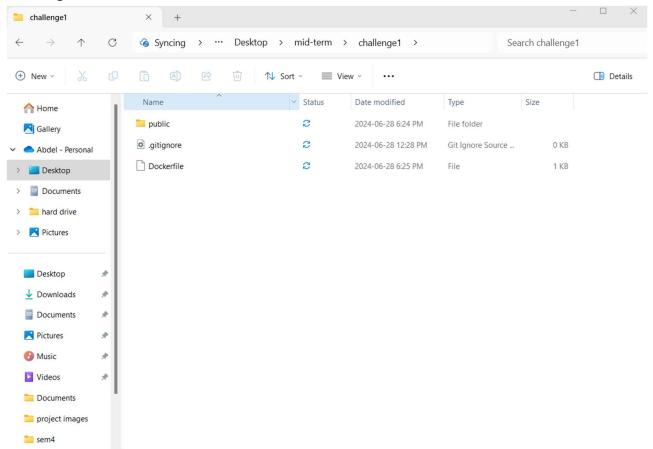
# **Docker Challenge 1**

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## Creating the File folder:



The creation of the folder once I had downloaded the template from the github repository. This was the basic folder structure that I imported into VS Code.

## The public folder contents:



In the public folder I placed my HTML file, as well as a styles.css, purely because I wanted to experiment with having multiple files in the folder.

#### The index file:

The index file was extremely basic. The header had the challenge name, and the tags had my name and sait id.

## The styles file:

```
public > # styles.css > 4; p

1 p {color: □ darkblue; font-size: 20px; margin: 5px;}
```

The styles simply just changed the colour of my name and id to blue, changed the size, and the spacing between them

### The docker file:

The docker file simply used an NGinx (alpine was used to make the file smaller) and copied the contents of the public folder into the NGinx html.

#### Docker build:

```
Start a build
PS C:\Users\mz-ab\OneDrive\Desktop\mid-term\challenge1> docker build -t my-simple-web-server .
[+] Building 0.2s (7/7) FINISHED
                                                                               docker:desktop-linux
                                                                                               0.05
=> => transferring dockerfile: 202B
                                                                                               0.05
=> [internal] load metadata for docker.io/library/nginx:alpine
                                                                                               0.05
=> [internal] load .dockerignore
                                                                                               0.05
=> => transferring context: 2B
                                                                                               0.05
=> [internal] load build context
                                                                                               0.05
=> => transferring context: 454B
                                                                                               0.05
=> CACHED [1/2] FROM docker.io/library/nginx:alpine
                                                                                               0.05
=> [2/2] COPY public /usr/share/nginx/html
                                                                                               0.05
=> exporting to image
                                                                                               0.05
=> => exporting layers
                                                                                               0.05
=> => writing image sha256:3220dcee22f2ed1bccec8110000d9305296d0691db440bdf8945dc9599ddfcb3 0.0s
=> => naming to docker.io/library/my-simple-web-server
                                                                                               0.05
PS C:\Users\mz-ab\OneDrive\Desktop\mid-term\challenge1> [
```

Now it was time to build the container. I used the command docker build -t docker-challenge-1 to build the container. Once the container was built, we could run the container.

#### Docker run:

```
PS C:\Users\mz-ab\OneDrive\Desktop\mid-term\challenge1> docker run -d -p 8080:80 my-simple-web-server 5dd07e3f261a7009bc2d31bc2aea95b911bca34ddaaea085c054ab5b75bca9bd
```

Here I ran the container using 'docker run -d -p 8080:80 docker-challenge-1'. This command ran the container on the host machine port 8080.

### **Output:**





Visiting the port 8080 localhost we can now see the HTML document as well as the simple styling changes

## References

https://mav-rana.medium.com/containerize-a-simple-static-website-a381c5e49633

https://hub.docker.com/ /nginx

https://www.tutorialspoint.com/docker/docker\_setting\_nginx.htm

https://www.youtube.com/watch?v=pTFZFxd4hOI&ab\_channel=ProgrammingwithMosh

https://docs.docker.com/reference/cli/docker/image/build/