

Deployment Guide

This is the guide on how to run and access our tests for the website. There will be 2 methods provided, one through accessing a docker image to run.

Docker

Step 1: Install docker

Linux Terminal

Install docker on you machine. For **Linux** you can install the **Docker Engine** directly in the terminal, for instructions follow the link below:

<https://docs.docker.com/engine/install/>

Docker Desktop

You can also install **Docker Desktop** for **Linux**, **Mac** and **Windows**. It provides an user-friendly graphical interface which allows access to the Docker Engine. For instructions to install follow this link below:

<https://docs.docker.com/desktop/>

Step 2: Pull image from docker hub

Linux Terminal

On the terminal on linux run the command:

(sudo is used due to docker requiring permissions to access certain files)

```
sudo docker pull davioppes/carbon-app:v0.1-test
```

Docker Desktop Terminal

On the terminal on Docker Desktop for any operating system:

```
docker pull davioppes/carbon-app:v0.1-test
```

Step 3: Run docker image

Linux Terminal

On the terminal on linux run the command:

(sudo is used due to docker requiring permissions to access certain files)

```
sudo docker run carbon-app:v0.1-test
```

All the dependencies will be downloaded and it will take a few seconds to run, but it should give how many tests were passed.

Docker Desktop Terminal

On the terminal on Docker Desktop for any operating system:

```
docker run carbon-app:v0.1-test
```

Compile and run using maven

Requirements:

- Git
- Maven - <https://maven.apache.org/install.html>
- Java JDK 21

Step 1: Clone repository

Run the command:

```
git clone  
https://github.com/Blobby1267/COM2020-Team-Project-Coursework.git
```

Step 2: Compilation

While in the projects root folder, run the command:

```
mvn compile
```

This will compile all of the code to be hosted using the file paths on the hosts device.

Step 3: Run the tests

While in the projects root folder, run the following sequence of commands:

```
mvn clean  
mvn test
```

Step 4: Run

To boot up the local host containing the compiled project code, run this command:

```
mvn spring-boot:run
```

You can then access the hosted website at the URL:

```
localhost:8080/login
```

This will take you to the login gateway to access the rest of the website.