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Github repo: <https://github.com/Elgoh/OTOT-A1>

Instructions on how to run the docker container:

1. Clone repo into local
2. Ensure docker has been installed
3. Task A1.1
   1. Open a new terminal under the app directory
   2. Run `docker build . -t otot-a1`
   3. Run `docker images` to view the built image
      1. Text

         Description automatically generated
   4. Run `docker run -p 49160:8080 -d otot\_a1` to start the container with image ‘otot\_a1’
   5. View localhost: 49160 to verify that container is indeed running.
      1. A screenshot of a computer

         Description automatically generated with medium confidence
4. Task A1.2
   1. Open a new terminal under the nginx-sample directory
   2. Run `docker build . -t otot\_a1.2`
   3. Run `docker images` to view the built image
      1. Text

         Description automatically generated
   4. Run `docker run -p 49161:80 -d otot\_a1.2to start the container with image ‘otot\_a1.2’. Port 80 is Nginx’s default port
   5. View localhost: 49161 to verify that container is indeed running.
      1. Graphical user interface, text, application

         Description automatically generated
5. Task A1.3
   1. Open a new terminal under the root directory that contains /app, /nginx and /nginx-sample
   2. Run ` docker compose up –build`
      1. To check if images are build successfully, open up another terminal and run `docker images`
      2. Text

         Description automatically generated
      3. To check if the containers are running, run `docker ps` in the same terminal
      4. 
   3. Now, both the app and nginx are avail on localhost:8080 and localhost:80 respectively.
      1. As nginx acts as a reverse proxy with proxy pass in the config file, both localhost:8080 and localhost:80 should show the same page
      2. Graphical user interface

         Description automatically generated
      3. Above is the ss for ‘localhost:80’ it runs through the reverse proxy that routes to port 8080 in docker to obtain the page.