

Name: Teo Yick Fong Alex

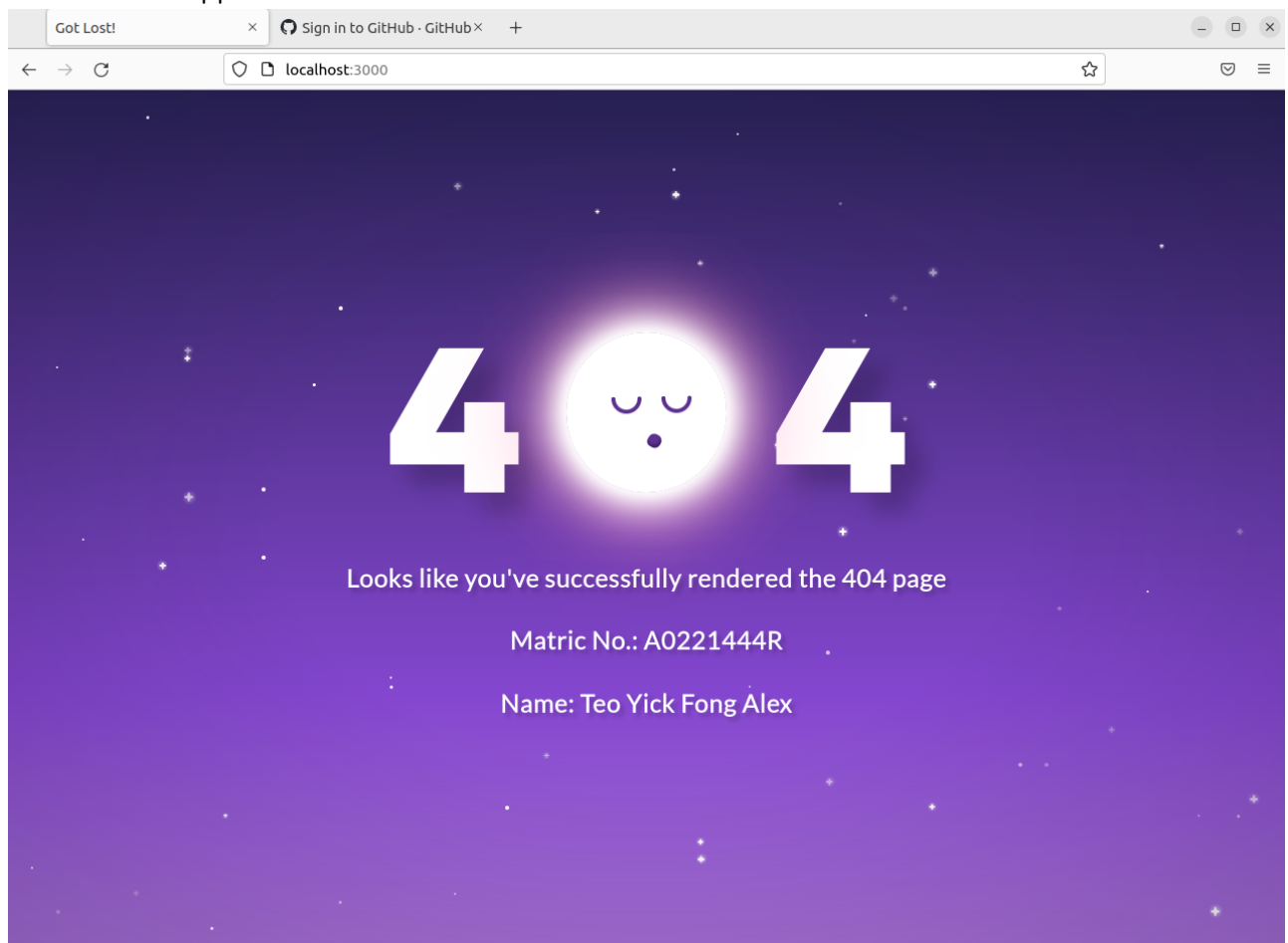
Student Number: A0221444R

[Github Repo](#)

Task A1.1

Runing the node app

1. `cd app`
2. Build the docker image
 1. `docker build ./ -t node-web-app`
 2. Alternatively, use the `./build.sh` script to build
 3. sudo privillages might be required
3. Run the docker container
 1. `docker run -p 3000:8080 -d --name otot-a1-1 node-web-app`
 2. Alternatively, use the `./start.sh` script to start
 3. sudo privillages might be required
4. Visit the node app at localhost:3000



Removing the node app

1. Stop the Docker container
 1. `docker stop otot-a1-1`
2. Remove the Docker container

1. `docker rm otot-a1-1`
3. Remove the Docker image
 1. `docker image rm node-web-app`
4. sudo privillages might be required
5. Alternatively, use the `./remove.sh` script to remove

Task A1.2

Running the Nginx web server

1. `cd nginx-sample`
2. Build the docker image
 1. `docker build ./ -t nginx-server`
 2. Alternatively, use the `./build.sh` script to build
 3. sudo privillages might be required
3. Run the docker container
 1. `docker run -d -p 8080:80 --name otot-a1-2 nginx-server`
 2. Alternatively, use the `./start.sh` script to start
 3. sudo privillages might be required
4. Visit the web server at localhost:8080



Nginx reverse proxy server listening on port 8080 for incoming HTTP requests.

Done by: Teo Yick Fong Alex

Removing the web server

1. Stop the Docker container
 1. `docker stop otot-a1-2`
2. Remove the Docker container

1. `docker rm otot-a1-2`
3. Remove the Docker image
 1. `docker image rm nginx-server`
4. sudo privillages might be required
5. Alternatively, use the `./remove.sh` script to remove

Task A1.3

Running the Nginx reverse proxy

1. `cd nginx`
2. Build and run the docker containers
 1. `docker compose up --build`
 2. sudo privillages might be required
 3. Alternatively, use the `./start.sh` script to start
 4. Visit the node app at both localhost:8080 and localhost:80

