proxsox

proxy server in c using sockets and openssl requests to localhost:8080 will return the response of a get request to smu.edu this is my submission for **networks homework 6**

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quickstart

assuming you have docker installed on your computer

```
docker build -t proxsox .
docker run -it --rm --name run -p 8080:8080 proxsox
```
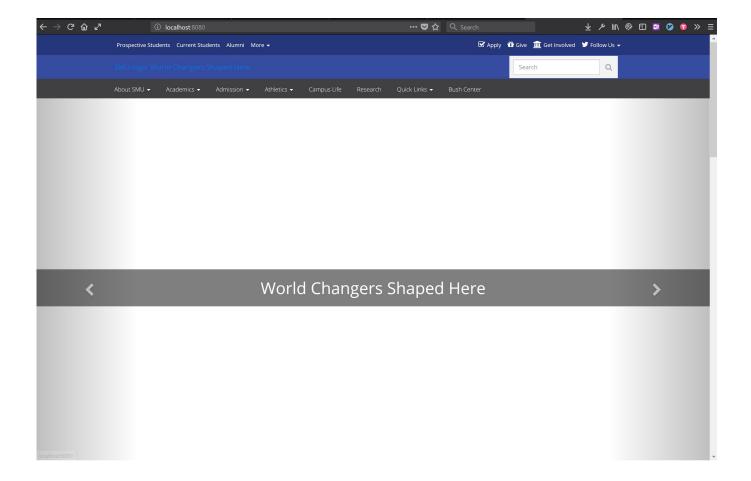
this will start the server listening on port 8080, then follow the onscreen prompts for any other info

output

Program output while running

Program response page

how to run

since i have a windows computer, development and testing has been done using docker, and so i've included the dockerfile necessary to run and build the program.

but if you have gcc, libssl-dev, and the ability to use a Makefile, you should be able to build locally without an issue.

if that doesn't work then **please use the docker environment**

local build

If you have make, then you can just use the included Makefile. Simply run `make` and then run the executable as `./proxsox` and you should be good to go.

docker build

If you don't want to build the application locally, then you can also run in docker.

First, build the container with `docker build -t proxsox .` Then, you can run the container with `docker run -it --rm --name run -p 8080:8080 proxsox`

references

- stackoverflow thread on http requests in c
- stackoverflow thread on makefiles
- the gcc docker image
- compilation flags
- integrating openssl
- the man pages for openssl
- beej's guide to network programming