# **COEN 317: Programming Assignment 1**

#### **High Level Description**

For this assignment, I created a very simple http server using C. The server supports the http 1.0 protocol. It is capable of supporting txt, html, js, gif, png, jpg, and css file types. It supports the https codes 200, 400, 403, and 404. The program runs on an infinite loop where the server accepts client connections from a user supplied port. For every connection it accepts, it creates a thread to handle the request. In the request thread, the server parses the http request, and logs it. It checks if the request is well formed and sends an error otherwise. It then checks if the file exists and if permissions are set properly and returns an error otherwise. Afterwards, it then transmit the file and closes the connection

#### **List of Submitted Files**

document\_root:

a folder containing html, css, and jpg files. It contains the html files necessary to load the scu home webpage

httpServer.c

The c source code for this program

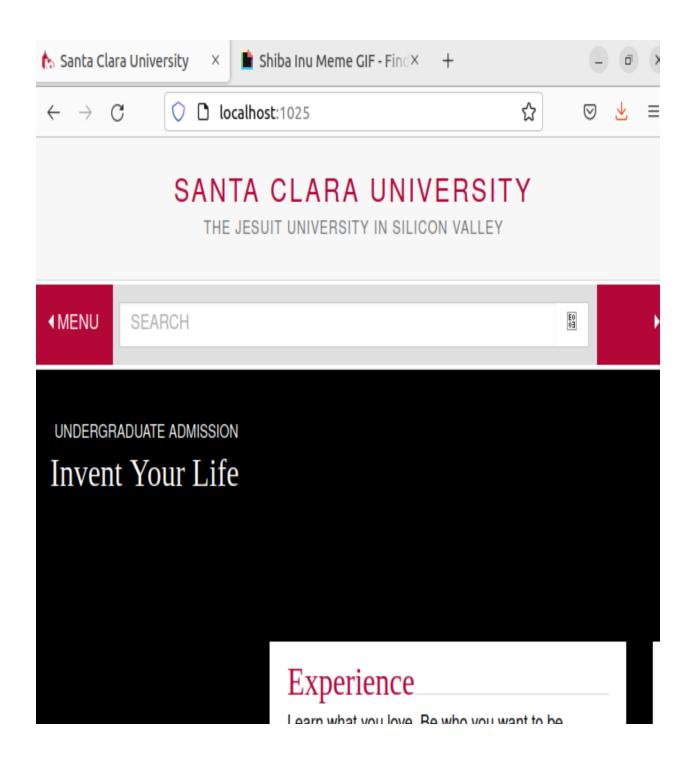
Makefile

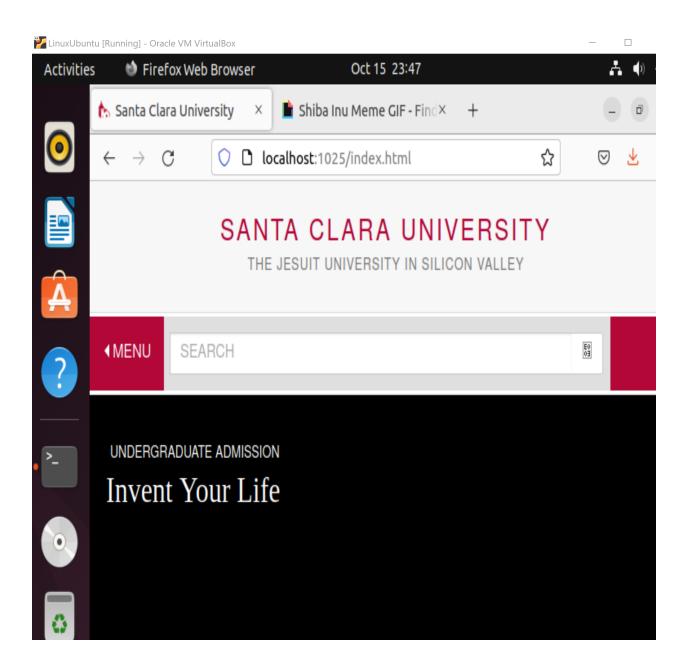
Makefile for this project

#### **How to Run the Program**

- 1. Run the command make in the terminal to create the executable "httpServer"
- 2. Type the command ./httpServer -document\_root document\_root -port "valid port number" (i.e: ./httpServer -document\_root document\_root -port 1025)

### **Snapshots**





## Requests

