Report

Usage: ./project2 [filename]

Basic Features

A. Open a socket named telnetSocket

telnetSocket = socket(AF_INET, SOCK_STREAM,0);

B. Set telnetSocket

int port=23;

server.sin_addr.s_addr = inet_addr("140.112.172.11");

server.sin_family = AF_INET;

server.sin_port = htons(port);

C. Connect telnetSocket to the port 23 and the IP address of PTT 140.112.172.11

if(connect(telnetSocket,(struct sockaddr*)&server, sizeof(server))<0){

   perror("connect");

   return 1;

}

D. Implement basic features by writing the ascii code or commands (read from file) to the telnetSocket

a. Log in

write(telnetSocket, ID,strlen(ID));

write(telnetSocket, "\r\n",2);

write(telnetSocket, PASS,strlen(PASS));

write(telnetSocket, "\r\n",2);

write(telnetSocket, "\x003" ,1); // Press ctrl+c to skip the advertisement

sleep(5);

b. Delete repeated connection

write(telnetSocket, "\x003" ,1); // Press ctrl+c to skip the advertisement

write(telnetSocket,"y\r\n",3);

sleep(10);

c. Press ctrl+c to skip some advertisements

write(telnetSocket, "\x003" ,1);

sleep(2);

d. Press s and enter Board

write(telnetSocket,"s",1);

write(telnetSocket, BOARD,strlen(BOARD));

write(telnetSocket,"\r\n",2);

write(telnetSocket, "\x003" ,1); // Press ctrl+c to skip the advertisement

write(telnetSocket, "\x003" ,1); // Press ctrl+c to skip the advertisement

e. Press ctrl+p and enter the title

write(telnetSocket, "\x010" ,1);   //Press ctrl+p

write(telnetSocket, "\r\n",2); //choose types of text (by default, just skip it)

write(telnetSocket, P,strlen(P));   //enter title

write(telnetSocket,"\r\n",2);

f. Enter contents

write(telnetSocket,CONTENT,strlen(CONTENT));

g. Save and post

write(telnetSocket, "\x018" ,1); //Press ctrl+x

sleep(1);

write(telnetSocket,"s\r\n",3); //Press s to save and post the contents

write(telnetSocket, "q",1);   //Press several q to return the starting page

write(telnetSocket, "q",1);

write(telnetSocket, "q",1);

write(telnetSocket, "q",1);

write(telnetSocket, "q",1);

write(telnetSocket, "q",1);

write(telnetSocket, "q",1);

h. Exit

Repeat the procedures d-g until read <EXIT> from the file

write(telnetSocket, "g",1);   //Press g to exit

sleep(3);

write(telnetSocket, "\r\n",2);

write(telnetSocket,"y\r\n",3); //Enter y to ensure exit

E. Close telnetSocket

close(telnetSocket);

F. Bonus features

In this part, I add the following feature:

In each line of contents, users can color a word (including red, green, yellow, blue, purple, light blue, white, and black), a sentence or a sequence of letters by putting a color (including COLOR_R, COLOR_G, COLOR_Y, COLOR_L, COLOR_P, COLOR_C, COLOR_W, and COLOR_B) tag in desired position in each line of contents.

For the part of codes:

Take color red for instance,

write(telnetSocket,"\x016",1); //Press ctrl+v to enter image-and-text mode

write(telnetSocket,"\x003",1); //Press ctrl+c to choose color

write(telnetSocket,"1r\r\n",4);//Enter brightness(1) and color(r)

write(telnetSocket,CONTENT,strlen(CONTENT));

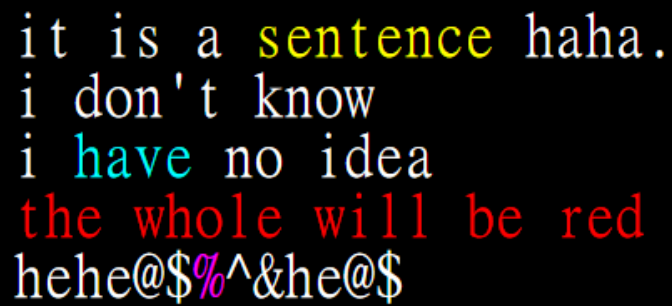**For the part of implemetation:**

In the text file:

<CONTENT>

it is a <COLOR_Y>sentence</COLOR_Y> haha.

i don't know

i <COLOR_C>have</COLOR_C> no idea

<COLOR_R>the whole will be red</COLOR_R>

hehe@$<COLOR_P>%</COLOR_P>^&</CONTENT>

In PTT: