CLIENT.C

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/\*#include<pthread.h>

#include <limits.h>

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

#include <sys/types.h>

#include <netinet/in.h>

#include <arpa/inet.h>

#include <sys/socket.h>

#include <unistd.h>

#include <sys/wait.h>

#include <time.h>

\*/

#include<header.h>

#include<common.h>

#define MAXBUFF 1024

#define PORTNO 3001

void menuc(int);

int main()

{

static int cfd = 0, retValue=0;

int choice;

char ans[10]={0,};

struct sockaddr\_in serv\_address;

char buffer[MAXBUFF] = {0,};

cfd = socket(AF\_INET,SOCK\_STREAM,0);

if(cfd < 0)

{

perror("socket() ");

exit(EXIT\_FAILURE);

}

printf("\nSocket created with sockfd : %d",cfd);

//reset/set address of client

memset(&serv\_address,'\0',sizeof(serv\_address));

// setting of Server side ipaddress and port no

serv\_address.sin\_family = AF\_INET;

serv\_address.sin\_port = htons(PORTNO);

serv\_address.sin\_addr.s\_addr = INADDR\_ANY;

retValue = connect(cfd,(struct sockaddr \*)&serv\_address, sizeof(serv\_address));

if(retValue < 0)

{

perror("connect()");

exit(EXIT\_FAILURE);

}

printf("\nClient: Connected to the server\n");

// strcpy(msg,"\nHi This is from Client\n");

while(1)

{

printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("Choose an Option:\n");

printf("\n\n");

printf("1. SignUp\n");

printf("2. Log in\n");

printf("3. Exit\n");

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

printf("\n");

printf("Enter your choice:\n ");

// Input validation for choice

while (1) {

if (scanf("%d", &choice) != 1)

{

printf("Invalid input. Please enter a number: ");

while (getchar() != '\n'); // Clear the input buffer

}

else if (choice < 1 || choice > 3)

printf("Please enter a valid option (1-4): ");

else

break; // Valid input, break out of the loop

}

send(cfd, &choice, sizeof(choice), 0);

switch(choice)

{

case 1:

printf("\n Enter username");

getchar();

scanf("%s",buffer);

send(cfd,buffer,sizeof(buffer),0);

printf("\n Enter Password");

memset(buffer, 0, sizeof(buffer));

send(cfd,buffer,sizeof(buffer),0);

break;

case 2:

printf("\n Enter username");

getchar();

scanf("%s",buffer);

send(cfd,buffer,sizeof(buffer),0);

printf("\n Enter Password");

memset(buffer, 0, sizeof(buffer));

send(cfd,buffer,sizeof(buffer),0);

memset(buffer, 0, sizeof(buffer));

recv(cfd,buffer,sizeof(buffer),0);

printf("\n %s",buffer);

if(strcmp(buffer,"Login Successful")==0)

{

menuc(cfd);

}

break;

case 3:

close(cfd);

exit(EXIT\_FAILURE);

default:

printf("\n Invalid choice \n");

break;

}

}

// close(sfd);

return 0;

}

void menuc(int cfd )

{

char buffer[1024]={0,};

char operator[50]={0,};

long int msisdn;

printf("\n \n");

printf("\n 1. Process CDR File");

printf("\n 2. Print/Search Billing Info");

printf("\n 3. Logout");

printf("\nEnter Choice:\n");

int choice;

scanf("%d",&choice);

send(cfd,&choice,sizeof(choice),0);

switch(choice)

{

case 1:

recv(cfd,buffer,sizeof(buffer),0);

printf("\n %s",buffer);

case 2:

printf("\n ");

printf("1. Customer Billing \n");

printf("2. Interoperator Billing \n");

printf("Enter Choice: \n");

getchar();

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("\n Enter MSISDN:");

scanf("%ld",&msisdn);

send(cfd,msisdn,sizeof(msisdn),0);

memset(buffer,sizeof(buffer),0);

recv(cfd,buffer,sizeof(buffer),0);

printf("\n %s",buffer);

break;

case 2:

printf("\n Enter Operator Name:");

getchar();

scanf("%s",operator);

send(cfd,operator,strlen(operator),0);

break;

}

}

}