A Project Report

On

ONLINE CHATTING

Submitted By
SHUBHAM YADAV
Class: ~ XII C

Under the Guidance of

Mr. SANWAR MAL
PGT (Computer Science)

Department of Computer Science
Kendriya Vidyalaya No. 2, Delhi Cantt

C E R T I F I C A T E

This is to certify that SHUBHAM YADAV
Of Class XII C has prepared the report on the
Project entitled "Online Chatting". The report is
the result of his efforts & endeavors. The report
is found worthy of acceptance as final project
report for the subject Computer Science of
Class XII. He has prepared the report under my
guidance.

(Mr. SANWAR MAL)
PGT (Computer Science)
Department of Computer Science
Kendriya Vidyalaya No.2, Delhi Cantt

Department of Computer Science
Kendriya Vidyalaya No. 2, Delhi Cantt
New Delhi

CERTIFICATE

The project report entitled

"ONLINE CHATTING",

Submitted by SHUBHAM YADAV of Class XII C for the

CBSE Senior Secondary Examination class XII of

Computer Science at Kendriya Vidyalaya No. 2, Delhi

Cantt has been examined.

SIGNATURE OF EXAMINER

DECLARATION

I hereby declare that the project work entitled "ONLINE CHATTING", submitted to Department of Computer Science, Kendriya Vidyalaya No. 2, Delhi Cantt, New Delhi is prepared by me. All the coding are result of my personal efforts.

SHUBHAM YADAV

Class XII C

<u>A C K N O W L E D G E M E N T</u>

I would like to express a deep sense of thanks & gratitude to my project guide Mr. Sanwar Mal Sir for guiding me immensely through the course of the project. He always evinced keen interest in my work. His constructive advice & constant motivation have been responsible for the successful completion of this project.

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Last but not the least, I would like to thank all those who had helped directly or indirectly towards the completion of this project.

SHUBHAM YADAV

Class: XII C

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HARDWARE AND SOFTWARE USED

HARDWARE	*SOFTWARE*
Monitor	Dev C++
Ram	MySQL 8.0
Hard Disk	Google Chrome
Keyboard	Windows 10
Mouse	PhpMyAdmin
Microprocessor	Notepad
SMPS	MS Word

ABOUT PROJECT

This is a simple menu driven program which lets you send message to other users in real time. It uses embedded DML MySQL commands to connect to MySQL database. This program is capable of signup, login, sending message, receiving message, viewing other users profile, viewing your own profile, changing password, logout and deleting your account.

HEADER FILES USED

- *iostream*
- *stdio.h*
- *stdlib.h*
- *windows.h*
- *conio.h*
- *string*
- *process.h*
- *ctime*
- *fstream*
- *mysql.h*
- *mysql_error.h*

FUNCTIONS USED

LIBRARY FUNCTIONS	*USER DEFINED FUNCTIONS*
system("cls")	cin_pass()
while()	is_empty()
mysql_init()	database_connect()
getch()	fullscreen()
exit()	choice()
mysql_real_connect()	check()
if() else	front_page()
keybd_event()	signup()
mysql_error()	login()
switch()	u_choice()
mysql_close()	search()
for()	profile()
getline()	f_profile()
cin.ignore()	message()
itoa()	logout()
strcpy()	acc_delete()
mysql_query()	pass_change()
mysql_store_result()	home_page()
mysql_fetch_row()	main()
ctime()	

MYSQL

Server: db4free.net

Name: online_chatting

Username: shubhamamsa

Password: 100miles

Port number: 3306

Database: online_chatting

Tables:

USERS

Field	Type	Null	Key	Default	Extra
user_id	smallint(6)	NO	PRI	NULL	auto_increment
f_name	varchar(40)	NO		NULL	
l_name	varchar(40)	NO		NULL	
dob	date	NO		NULL	
email	varchar(50)	NO	UNI	NULL	
username	varchar(40)	NO	UNI	NULL	
pass	char(40)	NO		NULL	
r_date	datetime	NO		NULL	

MSG

Field	Type	Null	Key	Default	Extra
uid	varchar(80)	NO		NULL	
f_name	varchar(40)	NO		NULL	
message	text	NO		NULL	

WORKING DESCRIPTION

This program is designed to keep the records of users.

This program consists of majorly 3 options as follows

1. TO SIGNUP

2. TO LOGIN:~

    a) SEND MESSAGE

    b) SEARCH PROFILE

    c) GO TO YOUR PROFILE

    d) LOGOUT

3. EXIT

CODING

```cpp
#include<iostream>
#include<stdio.h>
#include<stdlib.h>
#include<windows.h>
#include<conio.h>
#include<string>
#include<process.h>
#include<ctime>
#include<fstream>
#include<C:\Program Files\MySQL\MySQL Server 8.0\include\mysql.h>
#include<C:\Program Files\MySQL\MySQL Server
8.0\include\mysqld_error.h>

using namespace std;

MYSQL *obj;
MYSQL_RES *result = new MYSQL_RES;
MYSQL_ROW row;
string query_s;
char query[1000];
int execute;

void fullscreen();

string cin_pass();

int is_empty(string);


class online_chatting {

    private:
        void database_connect();
        int choice(int ch);
    protected:
        string f_name;
        string l_name;
        string username;
        string email;
        string password;
        string r_date;
        string _dob;
        struct dob {
                int year;
                int month;
                int date;
```

```cpp
            }inp;
            int check(dob inp);
      public:
            void front_page();
            void signup();
            int login();
};

class user: public online_chatting     {

            void u_choice(int);
            int search();
            void profile();
            void f_profile();
            void message(int t=0);
            void logout();
            void acc_delete();
            void pass_change();

      public:
                  void home_page();
}u;

int main() {
      fullscreen();
      u.front_page();
      u.home_page();
}

void online_chatting::front_page()     {

      database_connect();
      int ch;
      do    {
            system("cls");
            cout<<"\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\t
            WELCOME TO, ONLINE CHATTING";
            cout<<"\n\n\n\n\n\n\t\t\t\t\t\t\t\t 1. LOGIN";
            cout<<"\t|\t2. SIGN UP";
            cout<<"\n\n\t\t\t\t\t\t\t\t (Press 0 to exit)";
            cout<<"\n\t\t\t\t\t\t\t\t
            _____\n\t\t\t\t\t\t\t\t Enter
            your choice: ";
            cin>>ch;
      }while(choice(ch)==1);
}

void online_chatting::database_connect()    {
      obj = mysql_init(NULL);
      if(!obj)    {
            cout<<"An error occured, the object can't be created'.
            "<<mysql_error(obj);
```

```cpp
            getch();
            exit(0);
        }
   if(!mysql_real_connect(obj, "db4free.net", "shubhamamsa", "100miles",
                "online_chatting", 3306,NULL,0)) {
            cout<<"It seems your network is down or database server is
            not working."<<mysql_error(obj);
            cout<<"\n\nPress any key to exit...";
            getch();
            exit(0);
        }
}

int online_chatting::check(dob inp)    {

        if(inp.year>2019 || inp.month<1 || inp.month>12 || inp.date<1)
        {
            cout<<"\t\t\tSorry invalid date of birth... Enter again\n";
            return 0;
        }
        if(inp.month==2)
        {
            if((inp.year%4==0 && inp.date>29) || (inp.year%4!=0 &&
            inp.date>28))
            {
                cout<<"\t\t\tSorry invalid date of birth... Enter
                again\n";
                return 0;
            }
        }
        if((inp.month==1 || inp.month==3 || inp.month==5 || inp.month==7
        || inp.month == 8 || inp.month == 10 || inp.month == 12) &&
        inp.date>31)
        {
            cout<<"\t\t\tSorry invalid date of birth... Enter again\n";
            return 0;
        }
        if((inp.month==4 || inp.month==6 || inp.month==9 ||
        inp.month==11) && inp.date>30)
        {
            cout<<"\t\t\tSorry invalid date of birth... Enter again\n";
            return 0;
        }
        return 1;
}

int online_chatting::choice(int ch)    {
        switch(ch) {
            case 0:
                system("cls");
                cout<<"Exiting...";
                mysql_close(obj);
                exit(0);
```

```cpp
                case 1:
                        if(login()==1)
                                return 0;
                        break;
                case 2:
                        signup();
                        break;
                default:
                        cout<<"\n\t\t\t\t\t\t\t\t Sorry wrong choice
                        selected... Enter again.";
                        getch();
                        break;
        }
        return 1;
}

void online_chatting::signup()    {
        int a=2;
        do      {
                system("cls");
                cout<<"\n\n\t\t\t\t\t\t\t\t\t\tSIGN UP\n\n\t\t\t";
                for(int i=0;i<59;i++)
                        cout<<"==";
                cin.ignore();
                do      {
                cout<<"\n\n\t\t\tEnter your first name: ";
                getline(cin, f_name);
                if(is_empty(f_name))
                        cout<<"\t\t\tField cannot be blank.";
                }while(is_empty(f_name));
                do      {
                cout<<"\n\t\t\tEnter your last name: ";
                getline(cin, l_name);
                if(is_empty(l_name))
                        cout<<"\t\t\tField cannot be blank.";
                }while(is_empty(l_name));
                do      {
                        cout<<"\n\t\t\tEnter date of birth: \n\t\t\t Enter
                        year (in YYYY): ";
                        cin>>inp.year;
                        cout<<"\t\t\tEnter month (in MM): ";
                        cin>>inp.month;
                        cout<<"\t\t\tEnter date (in DD): ";
                        cin>>inp.date;
                }while(check(inp)==0);
                cin.ignore();
                do      {
                cout<<"\n\t\t\tEnter your email: ";
                getline(cin, email);
                if(is_empty(email))
                        cout<<"\t\t\tField cannot be blank.";
                }while(is_empty(email));
                do      {
```

```cpp
            cout<<"\n\t\t\tEnter your username: ";
            getline(cin, username);
            if(is_empty(username))
                    cout<<"\t\t\tField cannot be blank.";
            }while(is_empty(username));
            do      {
            cout<<"\n\t\t\tEnter your password: ";
            password = cin_pass();
            if(is_empty(password))
                    cout<<"\n\t\t\tField cannot be blank.";
            }while(is_empty(password));
            //MYSQL QUERY STARTS
            char y[10]={0},d[10]={0},m[10]={0};
            itoa(inp.year,y,10);
            itoa(inp.month,m,10);
            itoa(inp.date,d,10);
            query_s = "INSERT INTO users
            (f_name,l_name,dob,email,username,pass,r_date)
            VALUES('"+f_name+"','"+l_name+"','"+y+"-"+m+"-
            "+d+"','"+email+"','"+username+"','"+password+"',now())";
            strcpy(query, query_s.c_str());
            execute = mysql_query(obj, query);
            if(execute)
            {
                    cout<<"\n\t\t\tSorry some error occured. MySQL
                    error("<<mysql_error(obj)<<")"<<endl;
                    cout<<"\n\t\t\tDo you want to enter again.(Yes -> 1
                    ... No -> 0): ";
                    cin>>a;
            }
            //MYSQL QUERY ENDS
        }while(a==1);
        if(a==0)
                cout<<"\n\t\t\tRequest aborted.";
        else
                cout<<"\n\t\t\tSuccessfully registered... Please login to
                continue";
                getch();
}

int online_chatting::login()      {
        system("cls");
        cout<<"\n\n\t\t\t\t\t\t\t\t\tLOGIN\n\n\t\t\t";
        for(int i=0;i<59;i++)
                cout<<"==";
        cin.ignore();
        do      {
        cout<<"\n\n\t\t\tEnter your username: ";
        getline(cin, username);
        if(is_empty(username))
                cout<<"\t\t\tField cannot be blank.";
        }while(is_empty(username));
        do      {
```

```cpp
        cout<<"\n\n\t\t\tEnter your password: ";
        password = cin_pass();
        if(is_empty(password))
            cout<<"\n\t\t\tField cannot be blank.";
        }while(is_empty(password));
        query_s = "SELECT * FROM users where username='"+username+"'";
        strcpy(query,query_s.c_str());
        execute = mysql_query(obj, query);
        if(execute)        {
            cout<<"\n\n\t\t\tAn error occured
            MYSQL("<<mysql_error(obj)<<")";
            getch();
            return 0;
        }
        result = mysql_store_result(obj);
        row=mysql_fetch_row(result);
            if(row==NULL)     {
                    cout<<"\n\n\t\t\tUsername not found...";
                    getch();
                    return 0;
            }
            if((row[6]!=password))        {
                    cout<<"\n\n\t\t\tWrong username and password";
                    getch();
                    return 0;
            }
            f_name=row[1];
            l_name=row[2];
            _dob=row[3];
            email=row[4];
            r_date=row[7];
        return 1;
    }

    void user::home_page()       {
        time_t now = time(0);
        char* dt = ctime(&now);
        int ch;
        do    {
        system("cls");
        cout<<"\n\n\t\t\t\t\t\t\t\t\tHOME PAGE\n\n\t\t\t";
        for(int i=0;i<59;i++)
            cout<<"==";
            cout<<"\n\n\t\t\t Welcome, "<<f_name<<"\t\t\t\t\t\t\t\t\t
            "<<dt<<"\t\t\t";
        for(int i=0;i<59;i++)
            cout<<"==";
            cout<<"\n\n\n\n\n\t\t\t\t\t1. Send
            Message\n\n\n\t\t\t\t\t2. Search Profile\n\n\n\t\t\t\t\t3.
            Go to your Profile\n\n\n\t\t\t\t\t4. Logout";
        cout<<"\n\n\n\n\t\t\t\t\tEnter your choice: ";
        cin>>ch;
        u_choice(ch);
```

```cpp
        }while(1);
}

void user::u_choice(int ch){
        switch(ch)
        {
                case 1:
                        message();
                        break;
                case 2:
                        f_profile();
                        break;
                case 3:
                        profile();
                        break;
                case 4:
                        logout();
                        break;
                default:
                        cout<<"You have entered wrong choice... Enter again.";
                        getch();
                        break;
        }
}

int user::search()     {

        system("cls");
        string usr;
        cin.ignore();
        cout<<"\n\t\tEnter username to search: ";
        getline(cin, usr);
        query_s = "SELECT * FROM users where username = '"+usr+"'";
        strcpy(query, query_s.c_str());
        execute = mysql_query(obj, query);
        if(execute)        {
                cout<<"\n\t\tUh Oh! Some error occured
                MYSQL("<<mysql_error(obj)<<")";
                getch();
                return 0;
        }
        result = mysql_store_result(obj);
        row = mysql_fetch_row(result);
                if(row == NULL)  {
                        cout<<"\n\t\tNo user found with this username.";
                        getch();
                        return 0;
                }
        return 1;
}

void user::f_profile()       {
```

```cpp
        if(search()==0)
                return;
        system("cls");
                cout<<"\n\t\t\t\t\t\t\t\t\t\t"<<row[1]<<"'s
                Profile\n\t\t\t\t\t";
                for(int i=0;i<50;i++)
                        cout<<"__";
                cout<<"\n\n\n\n\n\n\t\t\t\t\t Name: "<<row[1]<<" "<<row[2];
                cout<<"\n\n\n\t\t\t\t\t Email: "<<row[4];
                cout<<"\n\n\n\t\t\t\t\t Username: "<<row[5];
                cout<<"\n\n\n\t\t\t\t\t Date of Birth: "<<row[3];
                cout<<"\n\n\n\t\t\t\t\t Registration Date: "<<row[7];
                cout<<"\n\n\n\n\n\n\t\t\t\t\t\t 1. MESSAGE\t\t|\t\t2.
                GO TO HOMEPAGE";
                cout<<"\n\n\t\t\t\t\t\t Enter your choice: ";
                int a;
                cin>>a;
                do {
                        if(a==1)
                        message(1);
                        else if(a==2)
                                return;
                        else {
                                cout<<"Wrong input.. Enter again";
                                getch();
                        }
                }while(a!=1 || a!=2);
}

void user::logout()   {

        char ch;
        cout<<"\n\t\t\t\t\t\tDo you want to logout(Y/N): ";
        cin>>ch;
        if(ch=='Y' || ch=='y')       {
                front_page();
        }
        else if(ch=='N' || ch=='n'){
                return;
        }
        else {
                cout<<"\t\t\t\t\t\t\tWrong input...";
                getch();
        }
}

void user::profile()  {

        int a;
        do    {
        system("cls");
        cout<<"\n\t\t\t\t\t\t\t\t\t\tYour Profile\n\t\t\t\t\t";
        for(int i=0;i<50;i++)
```

```cpp
                cout<<"__";
        cout<<"\n\n\n\n\n\n\t\t\t\t\t Name: "<<f_name<<" "<<l_name;
        cout<<"\n\n\n\t\t\t\t\t Email: "<<email;
        cout<<"\n\n\n\t\t\t\t\t Username: "<<username;
        cout<<"\n\n\n\t\t\t\t\t Date of Birth: "<<_dob;
        cout<<"\n\n\n\t\t\t\t\t Registration Date: "<<r_date;
        cout<<"\n\n\n\n\n\n\n\t\t\t\t\t\t 1. HOMEPAGE\t|\t 2. CHANGE
        PASSWORD\t|\t 3. DELETE YOUR ACCOUNT";
        cout<<"\n\n\t\t\t\t\t Enter your choice: ";
        cin>>a;
        switch(a)   {
                case 1:
                        return;
                case 2:
                        pass_change();
                        break;
                case 3:
                        acc_delete();
                        break;
                default:
                        cout<<"Wrong input enter again";
                        getch();
                        break;
        }
        }while(a>3||a<1);
}

void user::pass_change()    {


        system("cls");
        string pass;
        cout<<"\n\n\t\t\t Enter your current password: ";
        cin.ignore();
        pass = cin_pass();
        if(pass != password)  {
                cout<<"\n\t\t\t Sorry wrong password";
                getch();
                return;
        }
        cout<<"\n\n\t\t\t Enter new password: ";
        pass = cin_pass();
        query_s = "UPDATE users set pass = '"+pass+"'";
        strcpy(query, query_s.c_str());
        execute = mysql_query(obj, query);
        if(!execute)     {
                cout<<"\n\t\t\tPassword changed... Login again";
                getch();
                front_page();
        }
        else {
                cout<<"\n\t\t\tAn error occured
                MYSQL("<<mysql_error(obj)<<")";
```

```cpp
                getch();
        }
}

void user::acc_delete()       {

        system("cls");
        char ch;
        cout<<"\n\n\t\t\t ALL YOUR DATA WILL BE DELETED! DO YOU WANT TO
        DELETE YOUR ACCOUNT(Y/N): ";
        cin>>ch;
        if(ch=='Y' || ch=='y')          {
                query_s = "DELETE FROM users where username =
                '"+username+"'";
                strcpy(query, query_s.c_str());
                execute = mysql_query(obj, query);
                if(!execute)      {
                        system("cls");

        cout<<"\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\t\t
ACCOUNT DELETED SUCCESSFULLY";
                        getch();
                        front_page();
                }
                else {
                        cout<<"\n\t\t\t An error occured
                        MYSQL("<<mysql_error(obj)<<")";
                        getch();
                }
        }
        else if(ch=='N' || ch=='n');
        else {
                cout<<"\n\t\t\t Wrong input";
                getch();
        }
}

void user::message(int t)   {

                if(t==0)
                        if(search()==0)
                                return;
                int ch=1;
                string usr, msg;
                usr = row[5];
                do    {
                system("cls");
                cout<<"\n\t\t\t\t\t\t\t\t\t\t\t"<<usr<<"\n\t\t\t\t\t";
                for(int i=0;i<50;i++)
                        cout<<"__";
                query_s = "SELECT f_name, message from msg where uid =
                '"+username+usr+"' OR uid = '"+usr+username+"'";
                strcpy(query, query_s.c_str());
```

```cpp
execute = mysql_query(obj, query);
if(!execute)       {

      result = mysql_store_result(obj);
      while(row = mysql_fetch_row(result))   {

            if(row == NULL)  {
                  cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\tNo
                  messages yet.";
                  getch();
                  break;
            }
            cout<<"\n\n\t\t\t\t\t"<<row[0]<<":
            "<<row[1]<<endl<<endl;
      }
cout<<"\n\t\t\t\t\t";
for(int i=0;i<50;i++)
      cout<<"__";
cout<<"\n\n\t\t\t\t\t";
cout<<"1. Refresh \t\t\t\t 2. Reply \t\t\t\t 3. Home Page";
cout<<"\n\n\t\t\t\t\t";
cout<<"Enter your choice: ";
cin>>ch;
switch(ch) {
      case 1:
            break;
      case 2:
            cin.ignore();
            do    {
            cout<<"\n\n\t\t\t\t\t";
            cout<<"Enter message: ";
            getline(cin, msg);
            if(is_empty(msg))
                  cout<<"\t\t\t\t\tSorry blank message is not
                  allowed.";
            }while(is_empty(msg));
            query_s = "INSERT INTO msg
            values('"+username+usr+"','"+f_name+"','"+msg+"')
            ";
            strcpy(query, query_s.c_str());
            execute = mysql_query(obj, query);
            if(execute)        {
                  cout<<"\n\t\t\t\t\tSorry an error occured
                  MYSQL("<<mysql_error<<")";
            }
            break;
      case 3:
            home_page();
      default:
            cout<<"\n\n\t\t\t\t\t";
            cout<<"Sorry wrong input enter again";
            getch();
            break;
```

```cpp
			}
			}
			else {
				cout<<"\n\t\t\t\t\tSorry an error occured
				MYSQL("<<mysql_error(obj)<<")";
				return;
			}
		}while(ch==1 || ch == 2);
}

void fullscreen()     {
keybd_event(VK_MENU,0x38,0,0);
keybd_event(VK_RETURN,0x1c,0,0);
keybd_event(VK_RETURN,0x1c,KEYEVENTF_KEYUP,0);
keybd_event(VK_MENU,0x38,KEYEVENTF_KEYUP,0);
}

string cin_pass()     {

	char ch, pass[40];
	string password;
	int i=0;
	while(ch!=13)
	{
		ch=getch();
		if(ch!=8)
		{
			pass[i]=ch;
			i++;
		}
		else if(ch==8)
			if(i>0)
			i--;
	}
	pass[i-1]='\0';
	password = pass;
	return password;
}

int is_empty(string ch)     {

	if(ch=="")
		return 1;
	else
		return 0;
}
```

OUTPUT SCREENS

```
                              WELCOME TO, ONLINE CHATTING




                    1. LOGIN        |        2. SIGN UP

                    (Press 0 to exit)
                    _____
                    Enter your choice:
```

```
                                      SIGN UP

===================================================================================================================

Enter your first name: Dinesh

Enter your last name: Rewaria

Enter date of birth:
 Enter year (in YYYY): 2000
Enter month (in MM): 10
Enter date (in DD): 19

Enter your email: dineshrewaria@gmail.com

Enter your username: dainu

Enter your password:
Successfully registered... Please login to continue
```

```
                                        LOGIN
===============================================================================================

Enter your username: dainu

Enter your password: _
```

```
                                      HOME PAGE
===============================================================================================
 Welcome, Dinesh                                          Sun Feb 03 16:07:00 2019
===============================================================================================


              1. Send Message

              2. Search Profile

              3. Go to your Profile

              4. Logout


              Enter your choice: _
```

```
Enter username to search: shubhamamsa_
```

```
                                    shubhamamsa
_____
Dinesh: Hello


Dinesh: How are you


Shubham: I am fine. What about you?


Dinesh: Me too


_____
1. Refresh                        2. Reply                        3. Home Page
Enter your choice: 2

Enter message: How are your exams going?
```
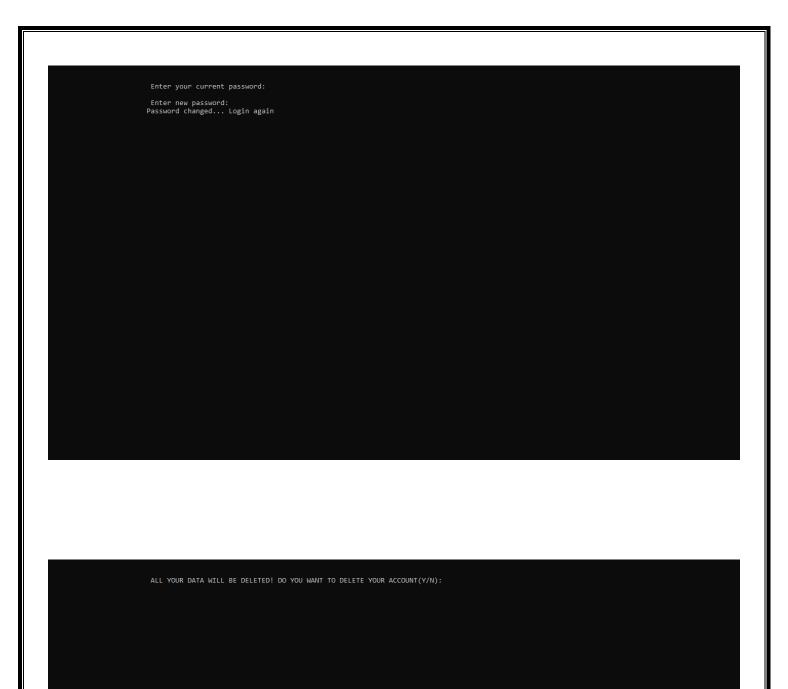
```
                                    Shubham's Profile
_____


    Name: Shubham Yadav

    Email: shubhamyadav2002@gmail.com

    Username: shubhamamsa

    Date of Birth: 2000-10-01

    Registration Date: 2019-01-29



                    1. MESSAGE            |             2. GO TO HOMEPAGE
                    Enter your choice:
```

```
                                    Your Profile
_____


    Name: Dinesh Rewaria

    Email: dineshrewaria@gmail.com

    Username: dainu

    Date of Birth: 2000-10-19

    Registration Date: 2019-02-03



            1. HOMEPAGE    |       2. CHANGE PASSWORD     |       3. DELETE YOUR ACCOUNT
            Enter your choice:
```

```
 Enter your current password:

 Enter new password:
Password changed... Login again
```

```
ALL YOUR DATA WILL BE DELETED! DO YOU WANT TO DELETE YOUR ACCOUNT(Y/N):
```

```
                                                ACCOUNT DELETED SUCCESSFULLY
```

```
                                         HOME PAGE
==============================================================================================

 Welcome, Shubham                                               Sun Feb 03 16:09:19 2019
==============================================================================================


            1. Send Message

            2. Search Profile

            3. Go to your Profile

            4. Logout


       Enter your choice: 4
                Do you want to logout(Y/N): Y
```

```
Exiting...
--------------------------------
Process exited after 176.8 seconds with return value 0
Press any key to continue . . .
```

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