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PASSWORD MANAGEMENT SYSTEM

COMPUTER PROJECT
GAURI RAMABHADHAN

CLASS-XII-C
ROLL NO.-18611611

INDEX

1. Certificate
2. Acknowledgement
3. Objective
4. Problem definition
5. Analysis
6. Block diagram
7. Languages used
8. Libraries used
9. Code
10. Sample output
11. References

ACKNOWLEDGEMENT

I undertook this Project work, as the part of my XII-Computer Science course. I had tried to apply my best of knowledge and experience, gained during the study and class work experience. However, developing password management systems is generally a quite complex and time-consuming process. It requires a systematic study, insight vision and professional approach during the design and development. Moreover, the developer always feels the need, the help and good wishes of the people near you, who have considerable experience and idea.

I would like to extend my sincere thanks and gratitude to my principal **Manju Sharma Ma'am**. I am very much thankful to my teacher **Vasudha Ma'am** for giving valuable time and moral support to develop this software.

I would like to take the opportunity to extend my sincere thanks and gratitude to my parents for being a source of inspiration and providing time and freedom to develop software projects.

I feel indebted to my friends for the valuable suggestions during the project work.

OBJECTIVE

This project aims to developing software that can be used for securing their email IDs and passwords. This project is useful because we generally forget our email ID or passwords and if we note down on a diary or any paper anyone can access it and misuse our email id. So here is a solution - you can store your data in password management system. It is simple and convenient for security.

According to the above facts the objectives of password management systems are:

- Identifying the importance of passwords as it concerns the advantages and disadvantages in their daily use in home and corporate environments.
- Identifying the weaknesses raised from these poorly chosen passwords and describe the modern attacking techniques against these passwords. Besides proposing possible countermeasures to address and eliminate these attacks.
- Conducting a critical analysis of different techniques used to facilitate users to remember strong passwords easily.
- Analyzing the operating principles of the Password Management System and the processes that it enforces in order to produce “safe passwords”.
- Test this password generator system for the strength of all passwords it generates.

PROBLEM DEFINITION

Remembering passwords is a pain. Around 85% of the people forget the passwords they have used for each and every website. Creating different passwords each time is a huge problem to remember. Since most of the websites accept strong complex passwords it becomes really difficult to remember them all. Keeping in mind all of these issues, we have created a password management system that can save the passwords of various websites along with the email and phone number.

You now don't have to worry, and be stressed about all the password remembering. Our site not only helps you to store important information but also detects which password is weak and which is strong. One can add new records, delete unnecessary records, update and sort by the records according to his/her need.

You can register as well as log into the website according to your convenience.

ANALYSIS

INPUT-OUTPUT DESCRIPTION

1. If you do not have an account click on sign up and enter a unique username, click on submit
2. Now choose a strong password and you have created your password management account
3. If you already have an account click on 'log in', type in your password and begin
4. You can perform different functions on password management system like:
 - **Adding records**
Click on 'Add new' from Menu and fill in – website name, username, password, email Id and phone number. Press 'Submit' and a new record is added to your password manager table
 - **Deleting record**
To delete a record from your password manager table click on 'Delete' from Menu.
Type the record ID, you would like to delete and press on 'Submit'.
 - **Updating records**

To update records click on 'Update' from Menu. Choose the column you would like to update and type ID of the record to change and the new information below it Press 'Submit' and your record has been updated

- **Sorting your records**

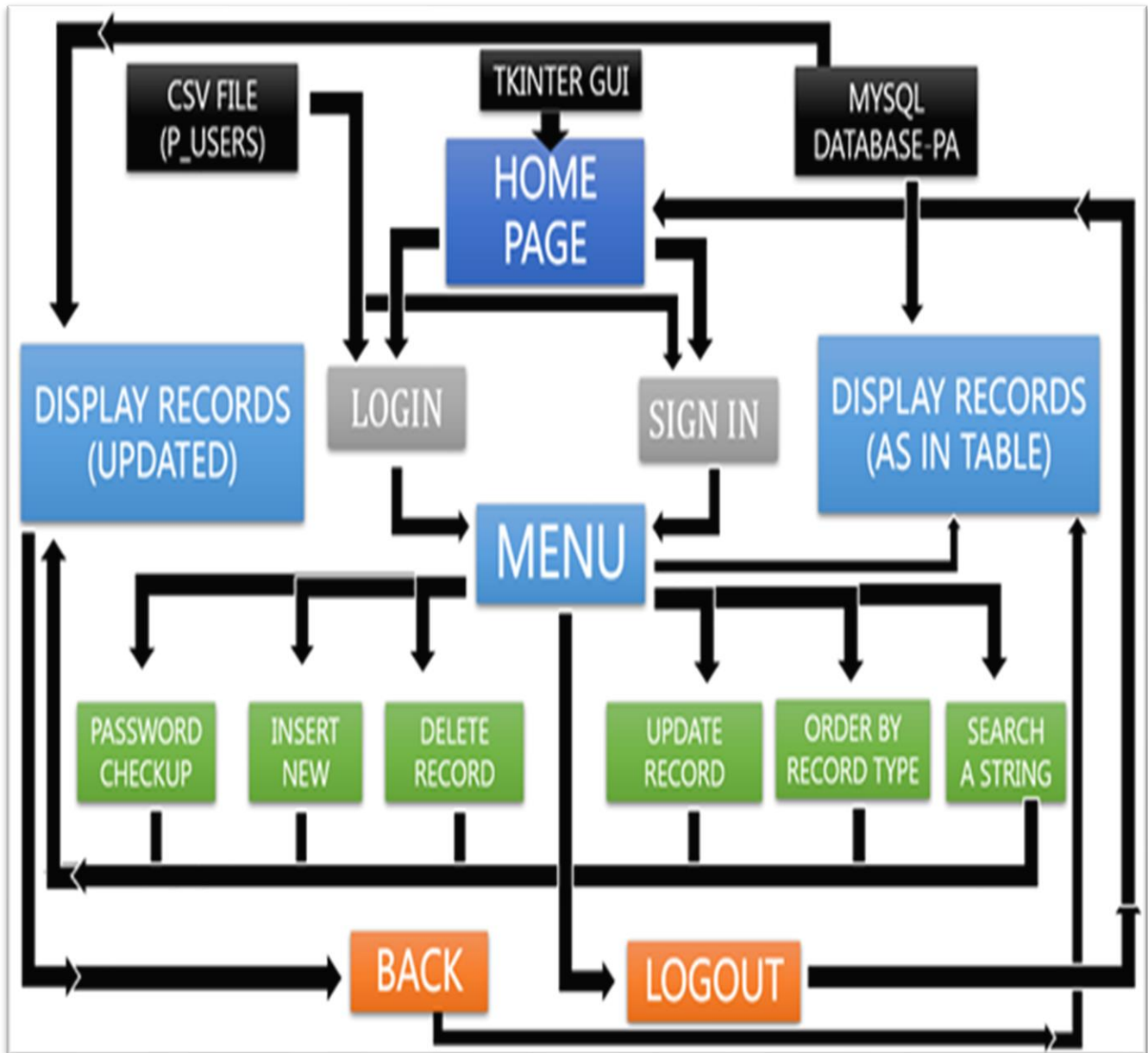
To sort your records for convenience, click on 'Sort by' and choose a column from the list that appears below. Your table is sorted

- **To check the strength of your password**

Click on 'Go to password check up' from Menu. You will notice a new column in your table – check, indicating whether your password is weak or strong

5. Refreshing your password manager can be done by clicking on 'MENU'
6. Click on 'back' button to clear your changes
7. To search for anything present in your table, click on the search bar and type in the information you are searching for
8. After you are done working on password manager you can log out by clicking on 'Logout' which leads you to the main page

BLOCK DIAGRAM



LANGUAGES USED

MYSQL

A database is a collection of information related to a particular subject or purpose. Using any RDBMS application software like MySQL, you can store your information in a single database file. Within the file, divide your data into separate storage containers called tables. You may add and retrieve the data using queries.

Using a separate table for each topic means you can store that data only once, which makes your database more efficient and reduces data-entry errors. Table organizes data into columns (called fields) and rows (called records).

A Primary key is one or more fields whose value or values uniquely identify each record in a table. In a relationship, a primary key is used to refer to specific record in one table from another table.

MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for Password Management system.

PYTHON

Python is a widely used general-purpose, high level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code.

Python is a programming language that lets you work quickly and integrate systems more efficiently. There are two major Python versions - Python 2 and Python 3. Both are quite different. Python 3 is used for this project.

Reason for increasing popularity:

1. Emphasis on code readability, shorter codes, ease of writing
2. Programmers can express logical concepts in fewer lines of code in comparison
to languages such as C++ or Java.
3. There exists inbuilt functions for almost all of the frequently used concepts.
4. Philosophy is "Simplicity is the best".

CSV

The CSV (Comma Separated Values) format refers to tabular data that has been saved as plaintext where data is separated by commas.

In CSV Format:

Each row of the table is stored in one row i.e. the number of rows in a CSV file are equal to the number of rows in the table.

The field-values of row are stored together with commas after every field value; but after the last field's value in a line/row, no comma is given, just the end of line.

Advantages:

- A simple, compact and ubiquitous format for data storage.
- A common format for data interchange.
- It can be opened in popular spreadsheet packages like MS-Excel, Calc etc.

LIBRARIES USED

TKINTER

Tkinter is Python's de-facto standard GUI (Graphical User Interface) package. GUI is nothing but a desktop app that provides you with an interface that helps you to interact with the computers and enriches your experience of giving a command (command-line input) to your code. They are used to perform different tasks in desktops, laptops, and other electronic devices, etc.

Methods used

a. `geometry()` : This method is used to set the dimensions of the Tkinter

window as well as it is used to set the position of the main window on the

user's desktop.

b. `Frame()` : It works like a container, which is responsible for arranging the

position of other widgets. It uses rectangular areas in the screen to organize

the layout and to provide padding of these widgets.

c. `grid()` : This geometry manager organizes widgets in a table-like structure in

the parent widget.

d. `pack ()` : This geometry manager organizes widgets in blocks before placing

them in the parent widget.

e. `Label ()` : This widget implements a display box where you can place text or

images. The text displayed by this widget can be updated at any time you

want.

f. `Button ()` : The Button widget is used to add buttons in a Python application.

These buttons can display text or images that convey the purpose of the

buttons. You can attach a function or a method to a button which is called

automatically when you click the button.

g. `Entry ()` : The Entry widget is used to accept single-line text strings from a user

PYMYSQL

PyMySQL is an interface for connecting to a MySQL database server from Python. It implements the Python Database API v2.0 and contains a pure-Python MySQL client library.

Methods used:

- a. `connect()` : Establish a connection to the MySQL database.
- b. `cursor()` : Creates a cursor object. This is the object you use to interact with the database.
- c. `execute()` : This method executes the given database operation (query or command). The parameters found in the tuple are bound to the variables in the operation.
- d. `fetchall()` : The `fetchall()` method retrieves all (remaining) rows of a query result, returning them as a sequence of sequences.
- e. `commit()` : This method commits the current transaction.
- f. `rollback()` : This method reverts the changes made by the current transaction.

CODE

```
#importing all the necessary files
from tkinter import *
import mysql.connector as m
import csv

#connecting to sql server
con=m.connect(host='localhost',user='root',passwd='0000',database='
pa')

#program

def search_rec(a,z):
    #to search records

    #creating a new frame
    f=Frame(w,height=800,width=1050,bg='gray11').place(x=500,y=0)

    #header line
    Label(f,text="ALL RECORDS ARE",bg='gray11',fg='snow',font=('mv
boli',40),bd=4).place(y=25,x=700)

    def sub(a):
        #extracting vallue of searched record
        z3=z2.get()
        search_rec(a,z3)

    #declaring search value
    z2=StringVar()

    #to enter text for user to search
```

```
Entry(f,textvariable=z2,fg='gray11',bg='snow',font=('coureir','18'),).place(y=125,x=1050)
```

```
#byttton to search
```

```
Button(f,image=pic,command=lambda:sub(a),bg="gray11",relief='flat').place(x=1300,y=120)
```

```
#button to go back
```

```
Button(f,text="BACK",width=6,bg='gray11',fg='snow',font=('coureir','18'),command=lambda:show_all(a),relief='ridge').place(y=125,x=600)
```

```
#extracting all values from sql
```

```
c=con.cursor()
```

```
s="select * from {}".format(a)
```

```
c.execute(s)
```

```
d=c.fetchall()
```

```
m=200
```

```
n=550
```

```
z=z.lower()
```

```
#displaying header
```

```
Label(f,text='ID',width=3,fg='gray11',bg='honeydew3',font=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n-45)
```

```
Label(f,text='WEBSITE',width=14,fg='gray11',bg='honeydew3',font=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text='USERNAME',width=18,fg='gray11',bg='honeydew3',font=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text='PASSWORD',width=13,fg='gray11',bg='honeydew3',font=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+340)
```



```

Label(f,text='EMAILID',width=27,fg='gray11',bg='honeydew3',font=('
    @microsoft yahei ui','12'),pady=2,).place(y=m,x=n+490)
    Label(f,text='PHONE
NO',width=11,fg='gray11',bg='honeydew3',font=('@microsoft    yahei
ui','12'),pady=2,).place(y=m,x=n+775)
    m+=50

    #to display records
    for i in d:

        #to display only for which it is seached
        if z in i[1].lower() or z in i[2].lower() or z in i[3].lower() or z in
i[4].lower() or z in i[5].lower():

            Label(f,text=str(i[0]),width=3,
fg='gray11',bg='mintcream',font=('coureir','12'),pady=2,).place(y=m,x
=n-45)

Label(f,text=str(i[1]),width=15,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n-5)

Label(f,text=str(i[2]),width=20,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+145)

Label(f,text=str(i[3]),width=15,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+340)

Label(f,text=str(i[4]),width=30,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+490)

Label(f,text=str(i[5]),width=12,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+775)
    m+=30

def show_all(a):

```

```
#to display all records
```

```
#creating a new frame
```

```
f=Frame(w,height=800,width=1050,bg='gray11').place(x=500,y=0)
```

```
#heading line
```

```
Label(f,text="ALL RECORDS ARE",bg='gray11',fg='snow',font=('mv  
boli',40),bd=4).place(y=25,x=700)
```

```
def sub(a):
```

```
    #extracting search value and calling the function
```

```
    z2=z.get()
```

```
    search_rec(a,z2)
```

```
#declaring variable for search
```

```
z=StringVar()
```

```
#giving user space to type what to search
```

```
Entry(f,textvariable=z,fg='gray11',bg='snow',font=('coureir','18'),).pla  
ce(y=125,x=1050)
```

```
#button to search
```

```
Button(f,image=pic,command=lambda:sub(a),bg="gray11",relief='fla  
t').place(x=1300,y=120)
```

```
#ectracting values from sql
```

```
c=con.cursor()
```

```
s="select * from {}".format(a)
```

```
c.execute(s)
```

```
d=c.fetchall()
```

```
m=200
```

```
n=550
```

```
#displaying heading
```

```
Label(f,text='ID',width=3,fg='gray11',bg='honeydew3',font=('@micros  
oft yahei ui','12'),pady=2,).place(y=m,x=n-45)
```

```
Label(f,text='WEBSITE',width=14,fg='gray11',bg='honeydew3',font=('
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text='USERNAME',width=18,fg='gray11',bg='honeydew3',font
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text='PASSWORD',width=13,fg='gray11',bg='honeydew3',font
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text='EMAILID',width=27,fg='gray11',bg='honeydew3',font=('
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text='PHONE
NO',width=11,fg='gray11',bg='honeydew3',font=('@microsoft yahei
ui','12'),pady=2,).place(y=m,x=n+775)
m+=50
```

```
#displaying all records
for i in d:
```

```
Label(f,text=str(i[0]),width=3,
fg='gray11',bg='mintcream',font=('coureir','12'),pady=2,).place(y=m,x
=n-45)
```

```
Label(f,text=str(i[1]),width=15,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text=str(i[2]),width=20,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text=str(i[3]),width=15,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text=str(i[4]),width=30,fg='gray11',bg='mintcream',font=('cou
reir','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text=str(i[5]),width=12,fg='gray11',bg='mintcream',font=('courier','12'),pady=2,).place(y=m,x=n+775)
    m+=30
```

```
def p_check(a):
    #to check if passowrd is strong or not

def strongpass(s):
    #checks password

    a,b,c,d=0,0,0,0

    #to see if length greater than 8
    if len(s)>=8:

        #checks if all components are there
        for i in s:

            #lowercase
            if i.islower():
                a+=1

            #uppercase
            elif i.isupper():
                b+=1

            #numbers
            elif i.isdigit():
                c+=1

            #symbols
            else:
                d+=1

    if a>0 and b>0 and c>0 and d>0:
```

```

        return True
        #strong passowrd
    else:
        return False
        #weak password
    else:
        return False
        #weak password

#creating a new frame
f=Frame(w,height=800,width=1050,bg='gray11').place(x=500,y=0)
#heading label
Label(f,text="ALL RECORDS ARE",bg='gray11',fg='snow',font=('mv
boli',40),bd=4).place(y=25,x=700)

def sub(a):
    #to extract search value and call function
    z2=z.get()
    search_rec(a,z2)

#declaring variable for search
z=StringVar()
#giving space to search

Entry(f,textvariable=z,fg='gray11',bg='snow',font=('coueir','18'),).pla
ce(y=125,x=1050)
#calling search function using button

Button(f,image=pic,command=lambda:sub(a),bg="gray11",relief='fla
t').place(x=1300,y=120)
#to go back to main table
Button(f,text="BACK",
width=6,bg='gray11',fg='snow',font=('coueir','18'),command=lambda
:show_all(a),relief='ridge').place(y=125,x=600)

#extracting all values from sql
c=con.cursor()

```

```
s="select * from {}".format(a)
c.execute(s)
d=c.fetchall()
```

```
m=200
n=550
```

```
#displaying heading row
```

```
Label(f,text='ID',width=3,fg='gray11',bg='honeydew3',font=('@micros
oft yahei ui','12'),pady=2,).place(y=m,x=n-45)
```

```
Label(f,text='WEBSITE',width=14,fg='gray11',bg='honeydew3',font=('
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text='USERNAME',width=18,fg='gray11',bg='honeydew3',font
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text='PASSWORD',width=13,fg='gray11',bg='honeydew3',font
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text='EMAILID',width=27,fg='gray11',bg='honeydew3',font=('
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text='PHONE
NO',width=11,fg='gray11',bg='honeydew3',font=('@microsoft yahei
ui','12'),pady=2,).place(y=m,x=n+775)
```

```
Label(f,text='CHECK',width=6,fg='gray11',bg='honeydew3',font=('@
microsoft yahei ui','12'),pady=2,).place(y=m,x=n+905)
m+=50
```

```
#variables to analyse number of strong or weak password
s1=0
s2=0
```

```
#displaying all records
for i in d:
```

```
Label(f,text=str(i[0]),width=3,  
fg='gray11',bg='mintcream',font=('coureir','12'),pady=2,).place(y=m,x  
=n-45)
```

```
Label(f,text=str(i[1]),width=15,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text=str(i[2]),width=20,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text=str(i[3]),width=15,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text=str(i[4]),width=30,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text=str(i[5]),width=12,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+775)
```

```
#after checking if password is strong or not, it displays as it is  
if strongpass(i[3]):
```

```
Label(f,text="STRONG",width=7,fg='gray11',bg='darkolivegreen3',fo  
nt=('coureir','12'),pady=2,).place(y=m,x=n+905)
```

```
    m+=30
```

```
    s1+=1
```

```
else:
```

```
Label(f,text='WEAK',width=7,fg='gray11',bg='indianred1',font=('cour  
eir','12'),pady=2,).place(y=m,x=n+905)
```

```
    m+=30
```

```
    s2+=1
```

```
#creating new frame in menu to show complete analysis of
password
```

```
f1=Frame(w,height=375,width=500,bg='gray11').place(x=0,y=350)
```

```
#displaying analysis
```

```
Label(f1,text="PASSWORD ANALYSIS -
".format(s1),bg='gray11',fg='snow',relief='flat',font=('@Microsoft
YaHei UI',18,)).place(x=20, y=400)
```

```
Label(f1,text="{ websites have strong
password.".format(s1),bg='gray11',fg='snow',relief='flat',font=('@Micr
osoft YaHei UI',16)).place(x=20, y=500)
```

```
Label(f1,text="{ websites have weak
password.".format(s2),bg='gray11',fg='snow',relief='flat',font=('@Micr
osoft YaHei UI',16)).place(x=20, y=550)
```

```
Label(f1,text="Advised to change these
passwords.",bg='gray11',fg='snow',relief='flat',font=('@Microsoft
YaHei UI',16)).place(x=20, y=600)
```

```
def insert_new(a):
```

```
#to ask user if he wants to insert new values
```

```
#creating a new frame
```

```
f=Frame(w,height=375,width=500,bg='gray11').place(x=0,y=350)
```

```
#header
```

```
Label(f,text="ENTER VALUES
HERE",bg='gray11',fg='snow',relief='flat',font=('@Microsoft YaHei
UI',16)).place(y=350,x=50)
```

```
def sub(a):
```

```
#extracting values
```

```
n2=n.get()
```

```
o2=o.get()
```

```
p2=p.get()
```

```
q2=q.get()
```

```
r2=r.get()
```


#to indert values in table using these values

query(a,n2,o2,p2,q2,r2)

d=400

e=50

#defining which entry is for what

```
Label(f,text="Website                                     :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=d,x=e)
Label(f,text="Username                                   :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=d+50,x=e)
Label(f,text="Password                                   :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=d+100,x=e)
Label(f,text="Emailid                                    :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=d+150,x=e)
Label(f,text="Phone_no                                   :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=d+200,x=e)
```

#assigning variables

n=StringVar()

o=StringVar()

p=StringVar()

q=StringVar()

r=StringVar()

#user to type all the variables

```
Entry(f,textvariable=n,fg='gray11',bg='snow',font=('coureir','18'),).pla
ce(y=d,x=e+130)
```

```
Entry(f,textvariable=o,fg='gray11',bg='snow',font=('coureir','18'),).pla
ce(y=d+50,x=e+130)
```

```
Entry(f,textvariable=p,fg='gray11',bg='snow',font=('coureir','18'),).pla
ce(y=d+100,x=e+130)
```

```
Entry(f,textvariable=q,fg='gray11',bg='snow',font=('coureir','18'),).place(y=d+150,x=e+130)
```

```
Entry(f,textvariable=r,fg='gray11',bg='snow',font=('coureir','18'),).place(y=d+200,x=e+130)
```

```
#submit button
```

```
Button(f,text="SUBMIT",command=lambda:sub(a),bg='ivory4',fg='snow',font=('coureir','18')).place(y=660,x=200)
```

```
def query(a,n,o,p,q,r):
```

```
    #to enter values in sql
```

```
    c=con.cursor()
```

```
    s="select * from {}".format(a)
```

```
    c.execute(s)
```

```
    d=c.fetchall()
```

```
    ro=c.rowcount
```

```
    #extracting value of id number
```

```
    if ro==0:
```

```
        m=1
```

```
    else:
```

```
        m=d[ro-1][0]+1
```

```
    #inserting all values
```

```
    s="insert into {} values ({},'{}',{},'{}',{},'{}')".format(a,m,n,o,p,q,r)
```

```
    c.execute(s)
```

```
    con.commit()
```

```
    show_all(a)
```

```
def delete_rec(a):
```

```
    #to delete a record
```

```

#to make a new frame
f=Frame(w,height=375,width=500,bg='gray11').place(x=0,y=350)
#header
Label(f,text="Enter      the      Record      ID      to      be
deleted",height=6,width=20,bg='gray11',fg='snow',relief='flat',font=('
@Microsoft YaHei UI',20),wraplength=250).place(y=350,x=80)

def sub(a):
    #extracting values
    y2=y.get()
    #to call the function
    query(a,int(y2))

#asking what to enter
Label(f,text="ID                                     :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=550,x=175)

#defining a variable
y=StringVar()

#asking to enter

Entry(f,textvariable=y,fg='gray11',bg='snow',font=('coureir','18'),widt
h=5).place(y=550,x=225)
#submit button

Button(f,text="SUBMIT",command=lambda:sub(a),bg='ivory4',fg='sno
w',font=('coureir','18')).place(y=650,x=200)

def query(a,m):
    #to ask query

    #deleting from sql
    c=con.cursor()
    s="delete from {} where id={}".format(a,m)
    c.execute(s)
    con.commit()

```

```

ro=c.rowcount

#to show its deleted
Label(f,text="{ } records have been
deleted".format(ro),bg='gray11',fg='firebrick1',font=('coureir','14')).pl
ace(y=600,x=175 )

#displaying all records
show_all(a)

def update_menu(a):
    #to update menu

def use_now(a,q,q1):
    #to update the particular option chosen for

    #creating new frame for each

f=Frame(w,height=200,width=500,bg="gray11").place(x=0,y=500)

def sub(a,q):
    #extracting value of the id to be created
    x2=x.get()
    y2=y.get()

    #calling the function
    query(a,int(x2),y2,q)

    #giving instructions
    Label(f,text="Enter the record ID for which new { } is to be
entered".format(q1),bg='gray11',fg='snow',relief='flat',font=('@Micros
oft YaHei UI',12)).place(y=500,x=10)

    #asking for values
    Label(f,text="ID
",bg='gray11',fg='snow',font=('coureir','18')).place(y=550,x=50)

```

```
Label(f,text="{0} :  
".format(q1),bg='gray11',fg='snow',font=('coureir','18')).place(y=600,x  
=50)
```

```
#declaring variable for entries
```

```
x=StringVar()
```

```
y=StringVar()
```

```
#asking user value
```

```
Entry(f,textvariable=y,fg='gray11',bg='snow',font=('coureir','18'),).pla  
ce(y=600,x=175)
```

```
Entry(f,textvariable=x,fg='gray11',bg='snow',font=('coureir','18'),).pla  
ce(y=550,x=175)
```

```
#letting user to submit values
```

```
Button(f,text="SUBMIT",command=lambda:sub(a,q),bg='ivory4',fg='s  
now',font=('coureir','16')).place(y=675,x=200)
```

```
def query(a,x,y,q):
```

```
    #updating in sql
```

```
    #quesry to be updated
```

```
    c=con.cursor()
```

```
    s="update {0} set {0}='{1}' where id={2}".format(a,q,y,x)
```

```
    c.execute(s)
```

```
    con.commit()
```

```
    #displaying number of records updated
```

```
    ro=c.rowcount
```

```
    Label(f,text="{0} records have been  
updated".format(ro),bg='gray11',fg='firebrick1',font=('coureir','14')).p  
lace(y=650,x=120)
```

```
    #displaying all records updated
```

```
    show_all(a)
```

```

#creating a new frame
f=Frame(w,height=375,width=500,bg='gray11').place(x=0,y=350)

#header
Label(f,text="Select what to update :
",bg='gray11',fg='snow',relief='flat',font=('@Microsoft YaHei
UI',16)).place(y=350,x=150)

m=350
n=75

#giving choices
Button(f,text="Website",
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd
a:use_now(a,'website','Website'),relief='ridge').place(y=m+50,x=n)
Button(f,text="Username"
,width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lamb
da:use_now(a,'username','Username'),relief='ridge').place(y=m+50,x
=n+160)
Button(f,text="Password",
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd
a:use_now(a,'password','Password'),relief='ridge').place(y=m+100,x=
n-60)
Button(f,text="Email ID", width=10,
bg='gray11',fg='snow',font=('coureir','18'),command=lambda:use_no
w(a,'emailid','Email ID'),relief='ridge').place(y=m+100,x=n+100)
Button(f,text="Phone No.",
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd
a:use_now(a,'phone_no','Phone
NO.'),relief='ridge').place(y=m+100,x=n+260)

def sort_menu(a):
    #to sort table by its components

    def g_user(a,m):

```

```
#to display records in sorted form after user has chose options
```

```
#creating a new frame
```

```
f=Frame(w,height=800,width=1050,bg='gray11').place(x=500,y=0)
```

```
#heading label
```

```
Label(f,text="ALL RECORDS  
ARE",bg='gray11',fg='snow',font=('mv  
boli',40),bd=4).place(y=25,x=700)
```

```
def sub(a):
```

```
#to extract search value and call function
```

```
z2=z.get()
```

```
search_rec(a,z2)
```

```
#declaring variable for search
```

```
z=StringVar()
```

```
#giving space to search
```

```
Entry(f,textvariable=z,fg='gray11',bg='snow',font=('coureir','18'),).pla  
ce(y=125,x=1050)
```

```
#calling search function using button
```

```
Button(f,image=pic,command=lambda:sub(a),bg="gray11",relief='fla  
t').place(x=1300,y=120)
```

```
#to go back to main table
```

```
Button(f,text="BACK",  
width=6,bg='gray11',fg='snow',font=('coureir','18'),command=lambda  
:show_all(a),relief='ridge').place(y=125,x=600)
```

```
#to extract values from sql in the order
```

```
c=con.cursor()
```

```
s="select * from {} order by {}".format(a,m)
```

```
c.execute(s)
```

```
d=c.fetchall()
```

```
m=200
```

```
n=550
```

```
#displaying heading
```

```
Label(f,text='ID',width=3,fg='gray11',bg='honeydew3',font=('@micros  
oft yahei ui','12'),pady=2,).place(y=m,x=n-45)
```

```
Label(f,text='WEBSITE',width=14,fg='gray11',bg='honeydew3',font=('  
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text='USERNAME',width=18,fg='gray11',bg='honeydew3',font  
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+145)
```

```
Label(f,text='PASSWORD',width=13,fg='gray11',bg='honeydew3',font  
=('@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text='EMAILID',width=27,fg='gray11',bg='honeydew3',font=('  
@microsoft yahei ui','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text='PHONE  
NO',width=11,fg='gray11',bg='honeydew3',font=('@microsoft yahei  
ui','12'),pady=2,).place(y=m,x=n+775)
```

```
m+=50
```

```
#displaying all records
```

```
for i in d:
```

```
Label(f,text=str(i[0]),width=3,  
fg='gray11',bg='mintcream',font=('coureir','12'),pady=2,).place(y=m,x  
=n-45)
```

```
Label(f,text=str(i[1]),width=15,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n-5)
```

```
Label(f,text=str(i[2]),width=20,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+145)
```



```
Label(f,text=str(i[3]),width=15,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+340)
```

```
Label(f,text=str(i[4]),width=30,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+490)
```

```
Label(f,text=str(i[5]),width=12,fg='gray11',bg='mintcream',font=('cou  
reir','12'),pady=2,).place(y=m,x=n+775)  
m+=30
```

```
#creating a new frame
```

```
f=Frame(w,height=375,width=500,bg='gray11').place(x=0,y=350)
```

```
#header
```

```
Label(f,text="Select what to sort by :  
",bg='gray11',fg='snow',relief='flat',font=('@Microsoft YaHei  
UI',16)).place(y=350,x=150)
```

```
m=350
```

```
n=175
```

```
#giving choices
```

```
Button(f,text="Website",  
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd  
a:g_user(a,'website'),relief='ridge').place(y=m+50,x=n)
```

```
Button(f,text="Username",  
,width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lamb  
da:g_user(a,'username'),relief='ridge').place(y=m+100,x=n)
```

```
Button(f,text="Password",  
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd  
a:g_user(a,'password'),relief='ridge').place(y=m+150,x=n)
```

```
Button(f,text="Email ID",width=10,  
bg='gray11',fg='snow',font=('coureir','18'),command=lambda:g_user(  
a,'emailid'),relief='ridge').place(y=m+200,x=n)
```

```
Button(f,text="Phone no.",  
width=10,bg='gray11',fg='snow',font=('coureir','18'),command=lambd  
a:g_user(a,'phone_no'),relief='ridge').place(y=m+250,x=n)
```

```

def menu(a):

    #creating a new frame
    f=Frame(w,height=800,width=500,bg="gray11").place(x=0,y=0)

    #creating menu options
    Button(f,text="MENU",fg='white',bg='gray11',bd=4,font=('mv
boli',36),command=lambda:menu(a),relief='flat').place(y=0,x=150)

    m=130
    n=50

    #creating all buttons and showing table
    show_all(a)
    Button(f,text="GO      TO      PASSWORD      CHECK      UP",
bg="gray26",fg="light      cyan",relief='groove',font=('yu
gothic',18),command=lambda:p_check(a)).place(y=m,x=n+20)
    Button(f,text="ADD      NEW      ",bg="gray26",fg="light
cyan",relief='groove',font=('yu
gothic',18),width=10,command=lambda:insert_new(a)).place(y=m+7
5,x=n)
    Button(f,text="DELETE      ",bg="gray26",fg="light
cyan",relief='groove',font=('yu
gothic',18),width=10,command=lambda:delete_rec(a)).place(y=m+7
5,x=n+250)
    Button(f,text="UPDATE",bg="gray26",fg="light
cyan",relief='groove',font=('yu
gothic',18),width=10,command=lambda:update_menu(a)).place(y=m
+150,x=n)
    Button(f,text="SORT      BY      ",bg="gray26",fg="light
cyan",relief='groove',font=('yu
gothic',18),width=10,command=lambda:sort_menu(a)).place(y=m+1
50,x=n+250)

    #to log out

```

```
Button(f,text="LOGOUT",bg="gray26",fg="light
cyan",relief='groove',font=('yu
gothic',18),width=10,command=lambda:main()).place(y=m+600,x=n
+125)
```

```
def log_in():
```

```
    #to login the user
```

```
    #creating a new frame
```

```
f=Frame(w,height=400,width=1550,bg="gray11").place(x=0,y=400)
```

```
    #giving options like before
```

```
    Button(f,text="LOG IN",width=20,height=2,font=("sitka
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:log_i
n(),relief='flat').place(y=400,x=200)
```

```
    Button(f,text="SIGN IN",width=20,height=2,font=("sitka
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:sign
_in(),relief='flat').place(y=600,x=200)
```

```
    #asking for user to typer username and password
```

```
    Label(f,text="Username" :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=450,x=900)
```

```
    Label(f,text="Password" :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=550,x=900)
```

```
def sub():
```

```
    #to get variables and go for next function
```

```
    x2=x.get()
```

```
    y2=y.get()
```

```
    check(x2,y2)
```

```
    #calling variables
```

```
    x=StringVar()
```

```
    y=StringVar()
```

```
#giving entry options
```

```
Entry(f,textvariable=x,fg='gray11',bg='snow',font=('coureir','18')).place(y=450,x=1050)
```

```
Entry(f,textvariable=y,show="*",fg='gray11',bg='snow',font=('coureir','18')).place(y=550,x=1050)
```

```
#button to get the variables
```

```
Button(w,text="SUBMIT",command=lambda:sub(),bg='gray31',fg='snow',font=('coureir','18'),width=10,height=2).place(y=650,x=1000)
```

```
def check(x,y):
```

```
    #to check username and passowrd and log in the user
```

```
    #opening the file
```

```
    a=open('users.csv','r')
```

```
    b=csv.reader(a)
```

```
    #to check if username is there
```

```
    for i in b:
```

```
        if x.lower()==i[0]:
```

```
            if y==i[1]:
```

```
                #to check if its same as password
```

```
                menu(x)
```

```
                #calling the menu, x is the username of the person and also the table name for the user
```

```
                break
```

```
            else:
```

```
                #to display message if passowrd is worng
```

```
                Label(f,text="Wrong Password entered! Please try again.",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=600,x=925)
```

```
                break
```

```

else:
    #if username is not there in the file
    Label(f,text="Username doesn't exist! Please try
again.",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=500,x
=925)

a.close()
#closing the csv file

def sign_in():
    #to sign in the user

    #creating a new frame

f=Frame(w,height=400,width=1550,bg="gray11").place(x=0,y=400)

#giving options like before
Button(f,text="LOG IN",width=20,height=2,font=("sitka
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:log_i
n(),relief='flat').place(y=400,x=200)
Button(f,text="SIGN IN",width=20,height=2,font=("sitka
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:sign
_in(),relief='flat').place(y=600,x=200)

#asking user to choose a username
Label(f,text="Choose Username :
",bg='gray11',fg='snow',font=('coureir','18')).place(y=450,x=950)

def sub():
    #extracting the value
    x2=x.get()
    check(x2)

#declaring variable for username

```

```
x=StringVar()
```

```
#asking for it
```

```
Entry(f,textvariable=x,fg='gray11',bg='snow',font=('coueir','18')).place(y=500,x=950)
```

```
#button to get the variables
```

```
Button(f,text="SUBMIT",command=lambda:sub(),bg='gray31',fg='snow',font=('coueir','18'),width=10,height=2).place(y=650,x=975)
```

```
def password(a):
```

```
    #to let user take password and enter it in a file
```

```
    #creating a new frame for password
```

```
f=Frame(w,height=400,width=650,bg="gray11").place(x=900,y=400)
```

```
    #asking user to enter values
```

```
    Label(f,text="Create Password : ",bg='gray11',fg='snow',font=('coueir','18')).place(y=450,x=850)
```

```
    Label(f,text="Confirm Password : ",bg='gray11',fg='snow',font=('coueir','18')).place(y=550,x=850)
```

```
def sub():
```

```
    #extracting values
```

```
    x2=x.get()
```

```
    y2=y.get()
```

```
    #to check if password is okay
```

```
    check(x2,y2)
```

```
#assigning variables
```

```
x=StringVar()
```

```
y=StringVar()
```

```
#giving entry options
```

```
Entry(f,textvariable=x,fg='gray11',bg='snow',font=('coureir','18'),show="*").place(y=450,x=1100)
```

```
Entry(f,textvariable=y,show="*",fg='gray11',bg='snow',font=('coureir','18')).place(y=550,x=1100)
```

```
#button to get the variables
```

```
Button(w,text="SUBMIT",command=lambda:sub(),bg='gray31',fg='snow',font=('coureir','18'),width=10,height=2).place(y=650,x=1000)
```

```
def create_table(a):
```

```
#creating table in sql
```

```
c=con.cursor()
```

```
s="""create table {(
```

```
id int ,
```

```
website varchar(50),
```

```
username varchar(50),
```

```
password varchar(50),
```

```
emailid varchar(50),
```

```
phone_no varchar(12))""".format(a)
```

```
c.execute(s)
```

```
def entry(x,y):
```

```
#to enter username and password in csv file
```

```
#openingthe file
```

```
p=open('users.csv','a',newline=")
```

```
q=csv.writer(p)
```

```
q.writerow([x.lower(),y])
```

```
#creating table for that username in database
```

```
create_table(x)
```

```
#letting the person go to menu after that  
menu(x)
```

```
#closing the file  
p.close()
```

```
def check(x,y):
```

```
#to check if password is minimum of 8 characters  
if len(x)>7:
```

```
    if x==y:  
        #to check if passwords are same  
        entry(a,y)  
        #to enter in the csv file
```

```
    else:  
        Label(f,text="Passwords dont match! Please try  
again!",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=600,x  
=950)
```

```
    else:  
        Label(f,text="Length of password should be greater than  
7.",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=500,x=95  
0)
```

```
def check(x):
```

```
#checks if username already exists or not
```

```
#to open the file  
a=open('users.csv','r')  
b=csv.reader(a)
```

```
for i in b:
```

```
    if len(x)<1:
```



```

        #checks if its length is greater than 1
        Label(f,text="Username length should be more than 1.
",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=550,x=950)
        break

    else:
        if x[0].isdigit():
            #checks if it starts with alphabet
            Label(f,text="Username should always start with an
alphabet.",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=55
0,x=950)
            break

        else:
            if x.lower()==i[0]:
                #checks in file
                Label(f,text="Username already taken! Please try again.
",bg='gray11',fg='firebrick1',font=('coureir','14')).place(y=550,x=950)
                break

            else:
                #if username is allotted it goes to check for password
                password(x)
            #closing the file
            a.close()

def create_userfile():
    a=open('users.csv','w',newline=")
    b=csv.writer(a)
    b.writerow(['username','password'])

def main():
    #1st page to start up with

    #creating a frame
    f=Frame(w,height=800,width=1550,bg='gray11').place(x=0,y=0)

    #to print the welcome message and give it a aesthetic look

```

```
Label(f,text="WELCOME TO ",font=("Segoe  
Script",36,"bold"),height=1,width=40,bg='gray11',fg='white',bd=4,pa  
dx=4,pady=4,relief='flat').place(y=50,x=100)
```

```
Label(f,text="PASSOWRD MANAGEMENT",font=("Segoe  
Script",40,"bold"),height=1,width=40,bg='gray11',fg='white',bd=4,pa  
dx=4,pady=4,relief='flat').place(y=150,x=100)
```

```
#giving user the choices
```

```
Button(f,text="LOG IN",width=20,height=2,font=("sitka  
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:log_i  
n(),relief='flat').place(y=600,x=400)
```

```
Button(f,text="SIGN IN",width=20,height=2,font=("sitka  
heading",24,"bold"),bg="gray26",fg="snow",command=lambda:sign  
_in(),relief='flat').place(y=600,x=800)
```

```
#create_userfile()
```

```
#to be called only when everything needs to be refreshed
```

```
#make sure that database is cleared so tables dont clash with each  
other
```

```
#cteating window
```

```
w=Tk()
```

```
#adding background to window
```

```
w.configure(bg='GRAY11')
```

```
#adding title to window
```

```
w.title("PASSWORD MANAGEMENT SYSTEM")
```

```
#setting up size of the window
```

```
w.geometry('1550x800')
```

```
#importing a pic for search
```

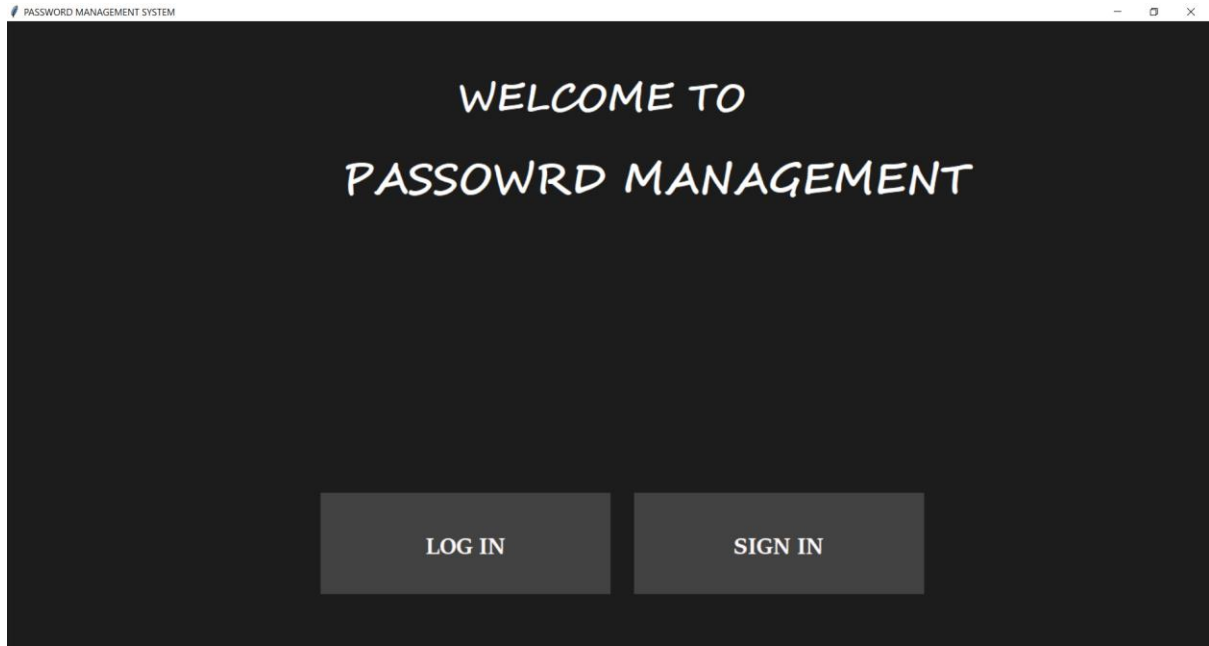
```
pic=PhotoImage(file="sea.png")
```

```
#main to start the function
```

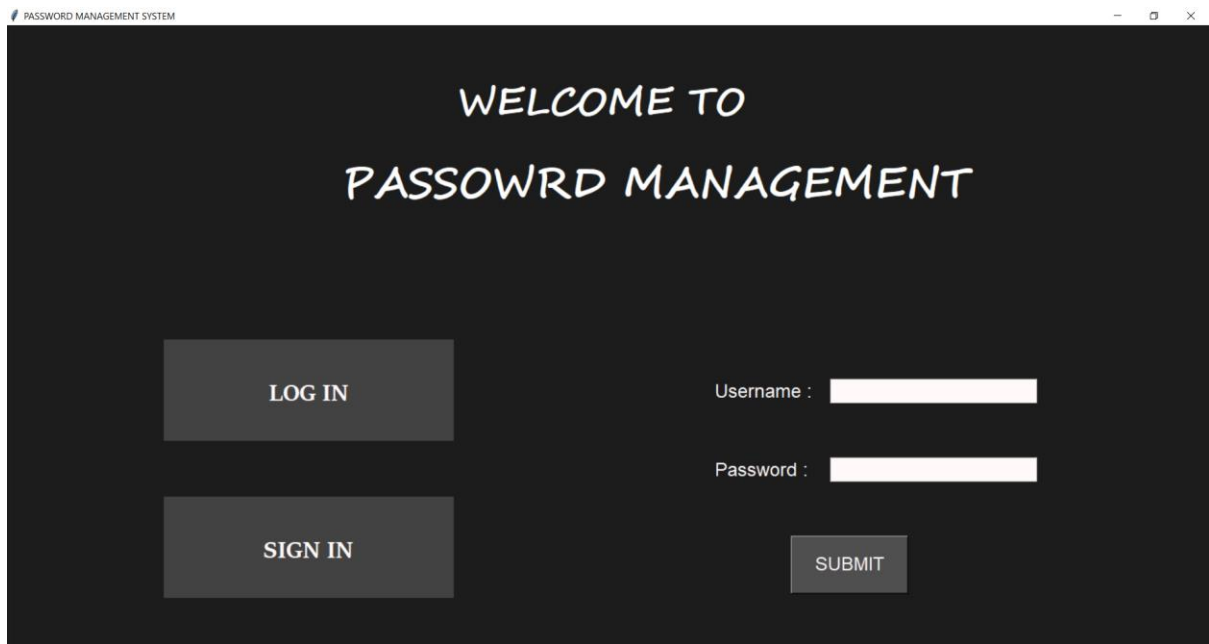
```
main()
```

SAMPLE OUTPUTS

Home page:

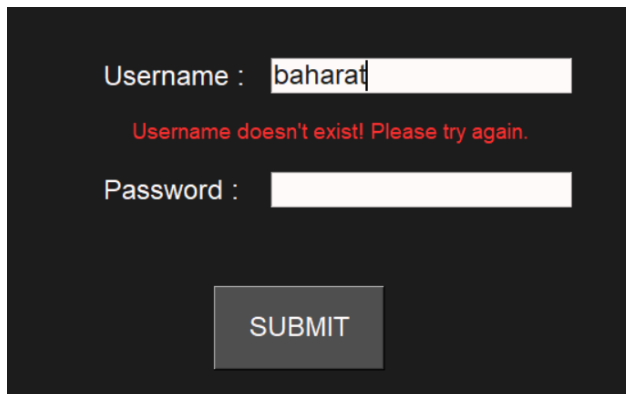


Login page:



NOTE:

A '**Please try again**' message appears if username is invalid

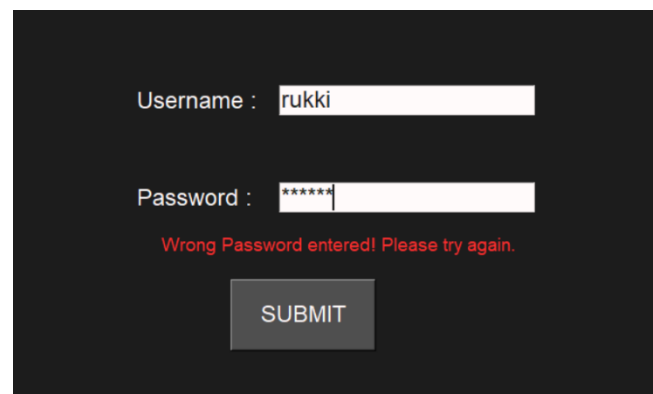


Username : baharat

Username doesn't exist! Please try again.

Password :

SUBMIT



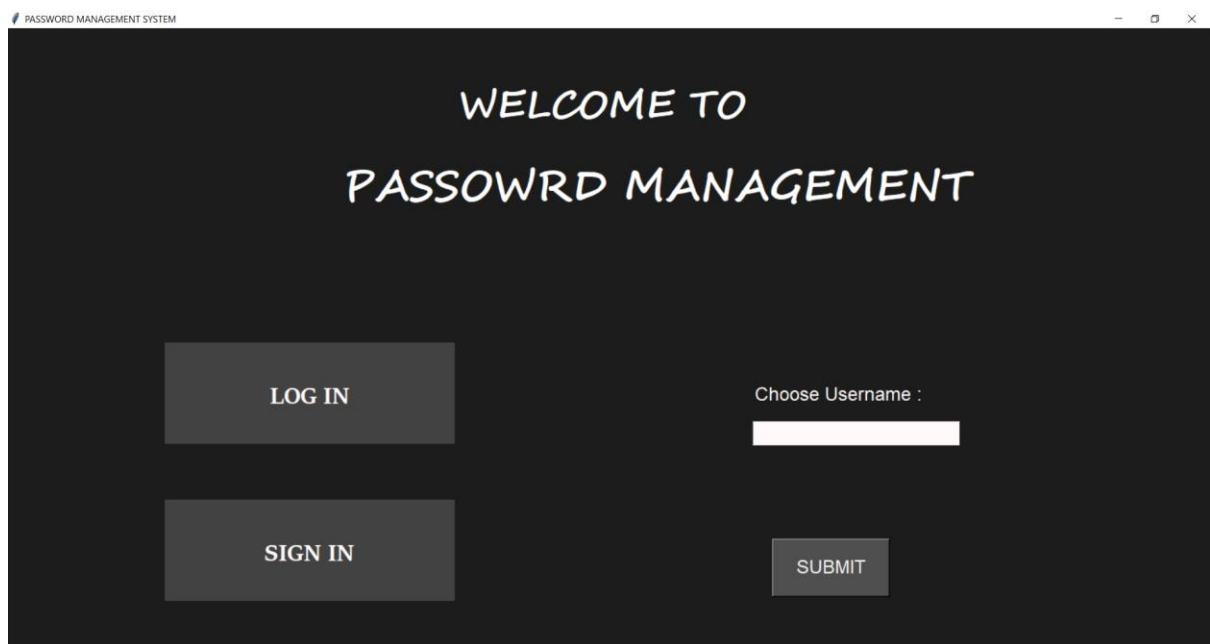
Username : rukki

Password : *****

Wrong Password entered! Please try again.

SUBMIT

sign up page:



PASSWORD MANAGEMENT SYSTEM

WELCOME TO
PASSOWRD MANAGEMENT

LOG IN

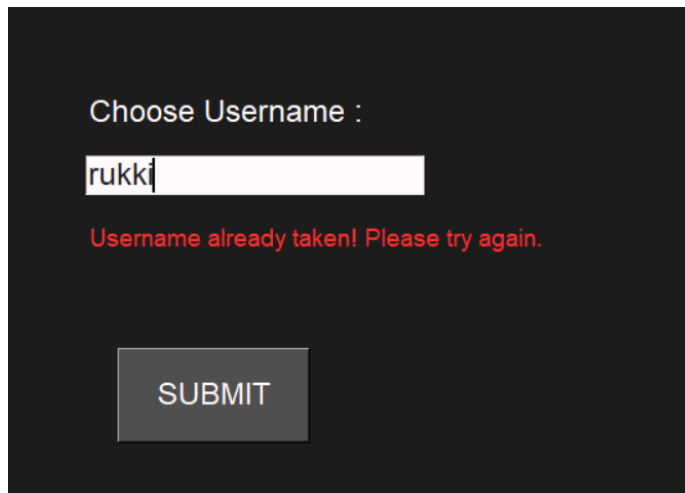
SIGN IN

Choose Username :

SUBMIT

A '**Please try again**' message appears if

1. Username already exists
2. Username starts with a number
3. Username is a white space



Choose Username :

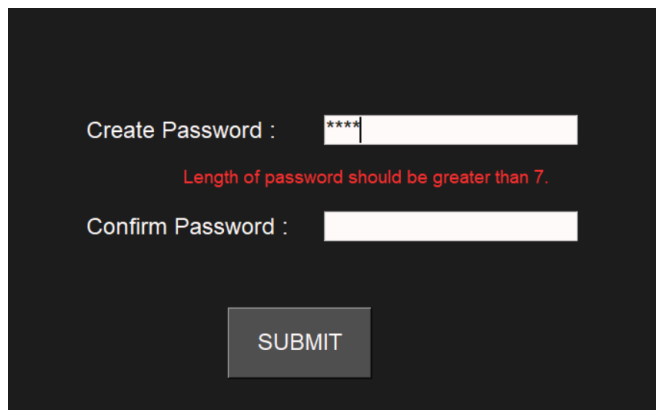
rukki

Username already taken! Please try again.

SUBMIT

NOTE:

Length of your password must be more than 7 characters



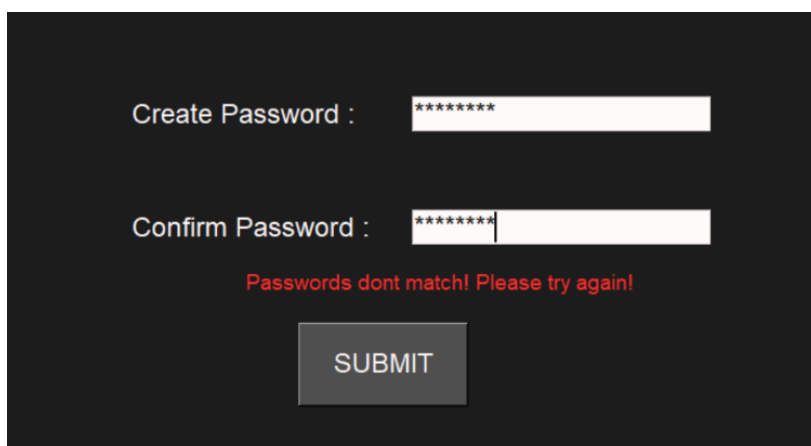
Create Password : ****

Length of password should be greater than 7.

Confirm Password :

SUBMIT

When confirming your password, **'Please try again'** message appears if password is not the same as created password



Create Password : *****

Confirm Password : *****

Passwords dont match! Please try again!

SUBMIT

Menupage:

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW

DELETE

UPDATE

SORT BY

LOGOUT

ALL RECORDS ARE

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
3	Actcorp	102142423266	rkkmen56	menonrukki@gmail.com	9871471590
4	Meritnation		5603-Rukki	menonrukki@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
6	Mynta		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
8	Adobe		menon123	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
10	entrar	B/4187	yolo		
11	Pinterest			menonrukki@gmail.com	
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	
15	Instagram	meno_priv	rukki563	rukki563@gmail.com	9871471590
16	Snapchat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
17	Call of duty		RkkMnn@56	rukki563@gmail.com	

Password check up – to check if your password is strong or weak

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW

DELETE

UPDATE

SORT BY

LOGOUT

ALL RECORDS ARE

BACK

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO	CHECK
1	Allen solly		5603-Rukki		6936255800	STRONG
2	Amazon		menon123	rukki563@gmail.com	6936255800	WEAK
3	Actcorp	102142423266	rkkmen56	menonrukki@gmail.com	9871471590	WEAK
4	Meritnation		5603-Rukki	menonrukki@gmail.com		STRONG
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com		WEAK
6	Mynta		Menon12	rukki563@gmail.com		STRONG
7	Netflix		Menon12	rukki563@gmail.com		STRONG
8	Adobe		menon123	rukki563@gmail.com		WEAK
9	Pinterest			rukki563@gmail.com		WEAK
10	entrar	B/4187	yolo			WEAK
11	Pinterest			menonrukki@gmail.com		WEAK
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590	WEAK
13	Instagram	rukki_5603	yoloyolo		6936255800	WEAK
14	Zoom		RkkMnn@56	rukki563@gmail.com		STRONG
15	Instagram	meno_priv	rukki563	rukki563@gmail.com	9871471590	WEAK
16	Snapchat	rukki_5603	menon123	menonrukki@gmail.com	6936255800	WEAK
17	Call of duty		RkkMnn@56	rukki563@gmail.com		STRONG

PASSWORD ANALYSIS -

6 websites have strong password.

11 websites have weak password.

Advised to change these passwords.

NOTE:

Click on '**BACK**' to go back to menu page

Adding a new record - after submitting record values, new record gets added at the end of the table

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

ENTER VALUES HERE

Website :

Username :

Password :

Emailid :

Phone_no :

SUBMIT

LOGOUT

ALL RECORDS ARE

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
3	Actcorp	102142423266	rkkmen56	menonrukki@gmail.com	9871471590
4	Meritnation		5603-Rukki	menonrukki@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
6	Myntra		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
8	Adobe		menon123	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
10	entrar	B/4187	yolo		
11	Pinterest			menonrukki@gmail.com	
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	
15	Instagram	meno_priv	rukki563@gmail.com	rukki563@gmail.com	9871471590
16	Snachat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
17	Call of duty		RkkMnn@56	rukki563@gmail.com	
18	Facebook		RkkMnnI56	rukkinenon@gmail.com	

Deleting a record- required record gets deleted after submitting record ID

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

Enter the Record ID to be deleted

ID :

1 records have been deleted

SUBMIT

LOGOUT

ALL RECORDS ARE

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
4	Meritnation		5603-Rukki	menonrukki@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
6	Myntra		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
8	Adobe		menon123	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
10	entrar	B/4187	yolo		
11	Pinterest			menonrukki@gmail.com	
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	
15	Instagram	meno_priv	rukki563@gmail.com	rukki563@gmail.com	9871471590
16	Snachat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
17	Call of duty		RkkMnn@56	rukki563@gmail.com	
18	Facebook		RkkMnnI56	rukkinenon@gmail.com	

Updating a record- choose the column to be updated and updated record will be displayed after clicking on 'SUBMIT'

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

Select what to update :

Website Username

Password Email ID Phone No.

Enter the record ID for which new Phone NO. is to be entered

ID : 18

Phone NO. 9871471590

1 records have been updated

SUBMIT

LOGOUT

ALL RECORDS ARE

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
4	Meritnation		5603-Rukki	menonrukki@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
6	Myntira		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
8	Adobe		menon123	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
10	entrar	B/4187	yolo		
11	Pinterest			menonrukki@gmail.com	
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	
15	Instagram	meno_priv	rukki563@gmail.com	rukki563@gmail.com	9871471590
16	Snapchat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
17	Call of duty		RkkMnn@56	rukki563@gmail.com	
18	Facebook		RkkMnn@56	rukki563@gmail.com	9871471590

Sorting a Record- To sort records by a particular column, choose the column with respect to which you would like to sort the table (in this case website)

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

Select what to sort by :

Website

Username

Password

Email ID

Phone no.

LOGOUT

ALL RECORDS ARE

BACK

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
8	Adobe		menon123	rukki563@gmail.com	
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
17	Call of duty		RkkMnn@56	rukki563@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
10	entrar	B/4187	yolo		
18	Facebook		RkkMnn@56	rukki563@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
15	Instagram	meno_priv	rukki563@gmail.com	rukki563@gmail.com	9871471590
4	Meritnation		5603-Rukki	menonrukki@gmail.com	
6	Myntira		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
11	Pinterest			menonrukki@gmail.com	
16	Snapchat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	

NOTE:

Click on '**BACK**' button to display the table sorted by ID

Search- searches for the required item in all columns (in this case Amazon)

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

Select what to sort by :

Website

Username

Password

Email ID

Phone no.

LOGOUT

ALL RECORDS ARE

BACK Amazon

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
2	Amazon		menon123	rukki563@gmail.com	6936255800
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590

NOTE:

Click on '**BACK**' to return to original table

The **MENU** button on left of the screen is a hidden refresh button for convenience and updating the password management system

PASSWORD MANAGEMENT SYSTEM

MENU

GO TO PASSWORD CHECK UP

ADD NEW DELETE

UPDATE SORT BY

LOGOUT

ALL RECORDS ARE

ID	WEBSITE	USERNAME	PASSWORD	EMAILID	PHONE NO
1	Allen solly		5603-Rukki		6936255800
2	Amazon		menon123	rukki563@gmail.com	6936255800
4	Mentration		5603-Rukki	menonrukki@gmail.com	
5	Discord	rukki#5655	rkkmen56	menonrukki@gmail.com	
6	Myntra		Menon12	rukki563@gmail.com	
7	Netflix		Menon12	rukki563@gmail.com	
8	Adobe		menon123	rukki563@gmail.com	
9	Pinterest			rukki563@gmail.com	
10	entrar	B/4187	yolo		
11	Pinterest			menonrukki@gmail.com	
12	Amazon		rukki9876	menonrukki@gmail.com	9871471590
13	Instagram	rukki_5603	yoloyolo		6936255800
14	Zoom		RkkMnn@56	rukki563@gmail.com	
15	Instagram	meno_priv	rukki563	rukki563@gmail.com	9871471590
16	Snapchat	rukki_5603	menon123	menonrukki@gmail.com	6936255800
17	Call of duty		RkkMnn@56	rukki563@gmail.com	
18	Facebook		RkkMnn@56	rukki563@gmail.com	9871471590

Click on '**Logout**' to return to home page

REFERENCES

In order to work on this project, the following books and literature were referred by us during the various phases of development of the project.

- 1) <http://www.mysql.org/>
- 2) <http://www.python.org/>
- 3) Computer Science for class XII –by Sumita Arora
- 4) Various websites of discussion forum software development activities.
- 5) tkinter-
 - a. basic-
<https://realpython.com/python-gui-tkinter/>
 - b. window-
<https://pythonexamples.org/python-tkinter-window-background-color/>
 - c. frames-
https://www.tutorialspoint.com/python/tk_frame.htm
 - d. label-
https://www.tutorialspoint.com/python/tk_label.htm
 - e. button-

https://www.tutorialspoint.com/python/tk_button.htm

f. font-

https://www.tutorialspoint.com/python/tk_fonts.htm#:~:text=Font%20object%20Fonts&text=weight%20%E2%88%92%20%22bold%22%20for%20boldface,overstruck%20text%2C%20%20for%20normal

g. colors-

<http://www.science.smith.edu/dftwiki/images/3/3d/TkInterColorCharts.png>

h. styles-

<https://stackoverflow.com/questions/39614027/list-available-font-families-in-tkinter>

Other than the above-mentioned books, the suggestions and supervision of my teacher and my class experience also helped me to develop this software project.