INDEX

ACKNOWLEDGEMENT

First and foremost, we'd like to thank our beloved principal, Ms. Asna Nafees for presenting before us this glorious opportunity to showcase our talents and traits.

Next, we'd like to thank our computer teacher, Mr. Avishek Jha for his continuing and never-ending support and advices which helped provide a foundation to this esteemed scheme.

Lastly, we'd like to thank our parents on their constant pushing and assistance which shaped our motivation and determination into constructing this efficiently.

PROJECT NAME

Locker

PROJECT MEMBERS

- Bhargav Raman
- Ameen Mansour
- Gaurav Kumar Singh

MINIMUM REQUIREMENTS

Python 3.0 IDE + shell supporting OS/ Mysql

OVERVIEW

This project is based on a simple database-like storage space wherein the user first creates an account using relevant details, logs into it .

FUNCTIONALITY

POV: Front-end

Introductory set-ups. The file opens into a page wherein the user can either create an account or login using pre-existing user ID and password. “Create:” opens into a page wherein the user can create a new account by entering user ID and password alongside essential details. “Login:” opens into a page wherein the user is asked to enter a pre-existing user ID-password couplet, which can be later added on to an app for an extra layer of security

POV: Back-end

SQL is created using Mysql-python connectivity which serves as a base to the building of the “storage space”.. From the introductory set-up page; when the user selects “Create:”, a predetermined database is opened where you can add delete or update accounts.When the user selects “LOGIN:”, the code cross checks entered user ID and password and confirms the existence of the account based on the account entered. Once this is done the user has the opportunity to delete,update their account or sign out

Code

```
def database():
    try:
        import mysql.connector
        db=mysql.connector.connect(
            user="root",
            host="localhost",
            passwd=sqlpassword)
        mycursor=db.cursor()
        mycursor.execute("create database dpsmis")
    except:
        print("database already exists")
def table():
    try:
        import mysql.connector
        db=mysql.connector.connect(
            user="root",
            host="localhost",
            passwd=sqlpassword,
            database="dpsmis")
        mycursor=db.cursor()
        mycursor.execute("create table account(account varchar(30),username varchar(30),password varchar(30),gender char(1))")
    except:
        print("table already exists")
def create():
    database()
    table()

def acc():
    account=input("enter mails, only gmail.com and yahoo.com accepted:")
    if account[-10:]=="@gmail.com" or account[-10:]=="@yahoo.com":
        return account
    else:
        print("re-enter account")
        acc()



def user():
    username=input("enter username,only letters and number allowed:")
    if username.isalnum():
        return username
    else:
        print("password should contain only letters and numbers")
        user()
```

```
def passwd():
    password=input("enter password:")
    if len(password)>=8:
        passwordconfirm=input("re-enter your password:")
        if passwordconfirm==password:
            return password
        else:
            print("password isnt the same")
            passwd()

    else:
        print("password must be minimum 8 characters long")
        passwd()

def gndr():
    gender=input("enter M for male,F for female,O for other:").upper()
    if gender=="M" or gender=="O" or gender=="F":
        return gender
    else:
        print("invalid input")
        gndr()
```

```
def register():
    account=acc()
    username=user()
    password=passwd()
    gender=gndr()
    import mysql.connector
    db=mysql.connector.connect(
        user="root",
        host="localhost",
        passwd=sqlpassword,
        database="dpsmis")
    mycursor=db.cursor()
    mycursor.execute("insert into account values('{}','{}','{}','{}')".format(account,username,password,gender))
    db.commit()
    print("account successfully created")
```

```
def login():
    import mysql.connector
    db=mysql.connector.connect(
        user="root",
        host="localhost",
        passwd=sqlpassword,
        database="dpsmis")
    mycursor=db.cursor()
    mycursor.execute("select * from account")
    records=mycursor.fetchall()
    C=input("enter username or account:")
    for i in records:
        if C[-10:]=="@gmail.com" or C[-10:]=="@yahoo.com":
            if i[0]==C:
                print("enter password next")
                passwordentry=input("enter password:")
                for i in records:
                    if i[0]==C or i[1]==C:
                        if i[2]==passwordentry:
                            print("you've successfully logged in")
                        else:
                            print("password is wrong")
                            login()

        elif i[1]==C:
            print("enter password next")
            passwordentry=input("enter password")
            for i in records:
                if i[0]==C or i[1]==C:
                    if i[2]==passwordentry:
                        print("you've successfully logged in")
                    else:
                        print("password is wrong")
                        login()
        else:
            print("account or username does not exist")
```

```
def update():
    import mysql.connector
    db=mysql.connector.connect(
        user="root",
        host="localhost",
        passwd=sqlpassword,
        database="dpsmis")
    mycursor=db.cursor()
    mycursor.execute("select * from account")
    records=mycursor.fetchall()
    print("1 for changing account")
    print("2 for changing username")
    print("3 for changing password")
    print("4 for changing gender")
    choice=int(input("enter your choice:"))
    if choice==1:
        account=input("enter account to be updated:")
        updateaccount=acc()
        for i in records:
            while account==i[0]:
                password=input("enter password to make sure its you:")
                if password==i[2]:
                    mycursor.execute("update account set account='{}' where account='{}'".format(updateaccount,account))
                    db.commit()
                else:
                    print("invalid password try again")
                account=1
    if choice==2:
        account=input("enter account of which username is to be changed:")
        updateusername=user()
        for i in records:
            while account==i[0]:
                password=input("enter password to make sure its you:")
                if password==i[2]:
                    mycursor.execute("update account set username='{}' where account='{}'".format(updateusername,account))
                    db.commit()
                else:
                    print("invalid password try again")
                    update()
                account=1
```

```
    if choice==3:
        account=input("enter account of which password is to be changed:")
        updatepassword=passwd()
        for i in records:
            while account==i[0]:
                password=input("enter password to make sure its you:")
                if password==i[2]:
                    mycursor.execute("update account set password='{}' where account='{}'".format(updatepassword,account))
                    db.commit()
                else:
                    print("invalid password try again")
                    passwd()
                account=1
    if choice==4:
        account=input("enter account of which gender is to be changed:")
        updategender=gndr()
        for i in records:
            while account==i[0]:
                password=input("enter password to make sure its you:")
                if password==i[2]:
                    mycursor.execute("update account set gender='{}' where account='{}'".format(updategender,account))
                    db.commit()
                else:
                    print("invalid password try again")
                    update()
                account=1

def delacc():
    deleteaccount=input("enter mail to be deleted:")
    password=input("enter password to make sure its you:")
    import mysql.connector
    db=mysql.connector.connect(
        user="root",
        host="localhost",
        passwd=sqlpassword,
        database="dpsmis")
    mycursor=db.cursor()
    mycursor.execute("select * from account")
    records=mycursor.fetchall()
    for i in records:
        while deleteaccount==i[0]:
            if password==i[2]:
                mycursor.execute("delete from account where account='{}'".format(deleteaccount))
                db.commit()
            else:
                print("invalid account try again")
                delacc()
            account=1
```

```
global sqlpassword
sqlpassword=input("enter password of your mysql:")
a=0
while a==0:
    print("1 for creating database and table (NECESSARY TO DO FIRST)")
    print("2 for regstering")
    print("3 for login")
    print("4 for updating details")
    print("5 for deleting account")
    print("6 for signing out")
    Ch=int(input("enter option:"))
    if Ch==1:
        create()
    elif Ch==2:
        register()
    elif Ch==3:
        login()
    elif Ch==4:
        update()
    elif Ch==5:
        delacc()
    elif Ch==6:
        exit()
    else:
        print("invalid choice")
    continuation=input("do you want to continue,y for yes and n for no:").upper()
    if continuation=="Y":
        a=0
    elif continuation=="N":
        a=1
    else:
        print("invalid input")
```

OUTPUT

```
enter password of your mysql:bhargav2004
1 for creating database and table (NECESSARY TO DO FIRST)
2 for regstering
3 for login
4 for updating details
5 for deleting account
6 for signing out
enter option:
```

```
enter option:1
database already exists
table already exists
do you want to continue,y for yes and n for no:
```

```
enter option:2
enter mails, only gmail.com and yahoo.com accepted:hi@gmail.com
enter username,only letters and number allowed:hello
enter password:hello@123
re-enter your password:hello@123
enter M for male,F for female,O for other:m
account successfully created
```

```
mysql> select * from account;
+-------------------+----------+-------------+--------+
| account           | username | password    | gender |
+-------------------+----------+-------------+--------+
| hi@gmail.com      | hello    | hello@123   | M      |
```

```
enter option:3
enter username or account:hi@gmail.com
enter password next
enter password:hello@123
you've successfully logged in
```

```
1 for creating database and table (NECESSARY TO DO FIRST)
2 for regstering
3 for login
4 for updating details
5 for deleting account
6 for signing out
enter option:4
1 for changing account
2 for changing username
3 for changing password
4 for changing gender
enter your choice:1
enter account to be updated:hi@gmail.com
enter mails, only gmail.com and yahoo.com accepted:hello@gmail.com
enter password to make sure its you:hello@123
```

```
mysql> select * from account;
+-------------------+----------+-------------+--------+
| account           | username | password    | gender |
+-------------------+----------+-------------+--------+
| hello@gmail.com   | hello    | hello@123   | M      |
```

```
enter option:4
1 for changing account
2 for changing username
3 for changing password
4 for changing gender
enter your choice:2
enter account of which username is to be changed:hello@gmail.com
enter username,only letters and number allowed:hello1
enter password to make sure its you:hello@123
```

```
mysql> select * from account;
+-------------------+----------+-------------+--------+
| account           | username | password    | gender |
+-------------------+----------+-------------+--------+
| hello@gmail.com   | hello1   | hello@123   | M      |
```

```
enter account of which password is to be changed:hello@gmail.com
enter password:hello@1234
re-enter your password:hello@1234
enter password to make sure its you:hello@123
```

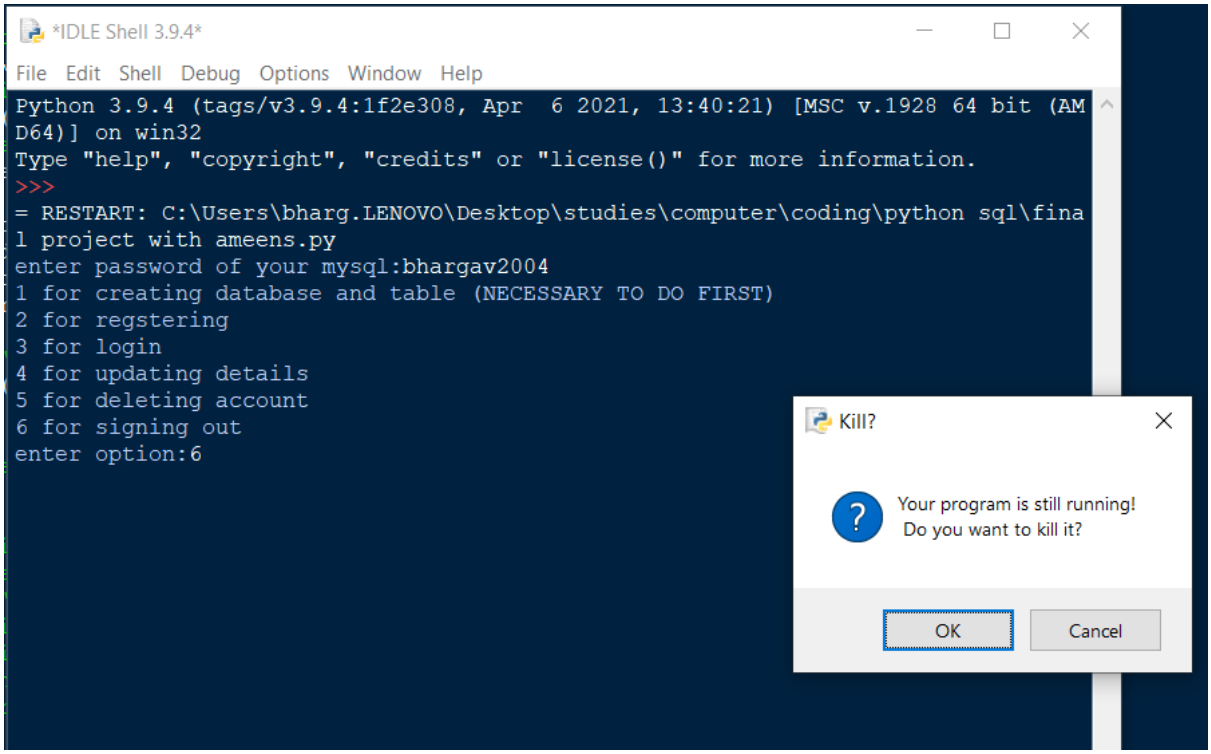
```
mysql> select * from account;
+-------------------+----------+-------------+--------+
| account           | username | password    | gender |
+-------------------+----------+-------------+--------+
| hello@gmail.com   | hello1   | hello@1234  | M      |
```

```
1 for creating database and table (NECESSARY TO DO FIRST)
2 for regstering
3 for login
4 for updating details
5 for deleting account
6 for signing out
enter option:4
1 for changing account
2 for changing username
3 for changing password
4 for changing gender
enter your choice:4
enter account of which gender is to be changed:hello@gmail.com
enter M for male,F for female,O for other:f
enter password to make sure its you:hello@1234
```

```
mysql> select * from account;
+-------------------+----------+-------------+--------+
| account           | username | password    | gender |
+-------------------+----------+-------------+--------+
| hello@gmail.com   | hello1   | hello@1234  | F      |
```

```
1 for creating database and table (NECESSARY TO DO FIRST)
2 for regstering
3 for login
4 for updating details
5 for deleting account
6 for signing out
enter option:5
enter mail to be deleted:hello@gmail.com
enter password to make sure its you:hello@1234
```

```
mysql> select * from account;
Empty set (0.00 sec)
```



SCOPE

This program is created with the intent to be used as an add on to other pre-existing applications to have an extra layer of security which is otherwise non existent

BIBLIOGRAPHY

Google.com

Cbse.nic.in