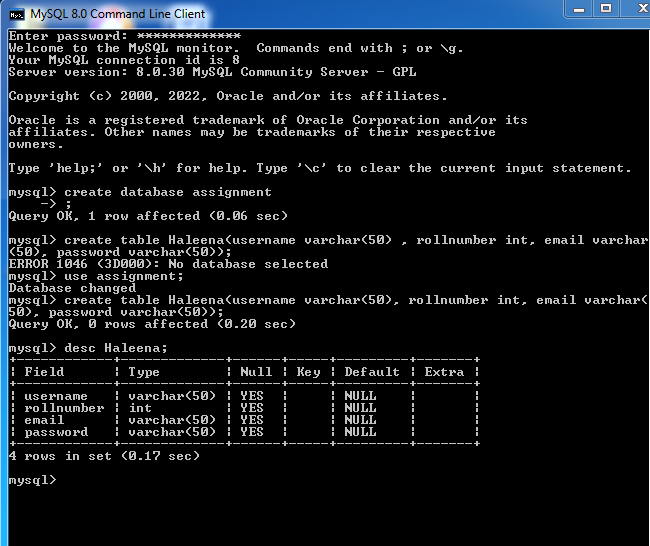
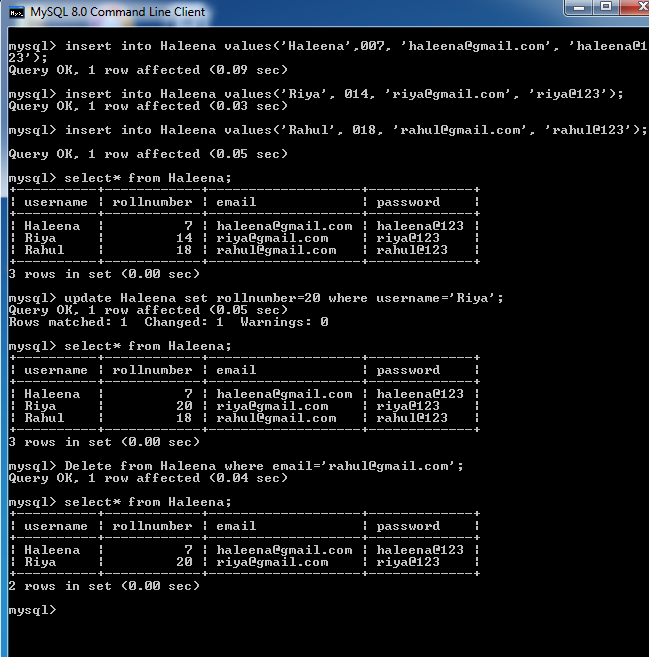
|  |  |
| --- | --- |
| DATE | 22 October 2022 |
| Team ID | PNT2022TMID49588 |
| Project Name | Project - Personal Expense Tracker |
| Team Member Name | Ayishathul Haleena Moufika A |
|  |  |

**ASSIGNMENT-2**

1.Create user table with user with email, username, roll number, password.



2.Perform UPDATE, DELETE Queries with user table.



3.Connect python code to db2.

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mfy24311;PWD=IKdxVUVroa2IH4y8",'','')

4. Create a flask app with registration page, login page and welcome page. By default

load the registration page once the user enters all the fields, store the data in the

database and navigate to the login page to authenticate user username and

password. If the user is valid show the welcome page.

**app.py:**

from flask import Flask, render\_template, request, redirect, url\_for, session

import ibm\_db

import re

app = Flask(\_\_name\_\_)

app.secret\_key = 'a'

conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mfy24311;PWD=IKdxVUVroa2IH4y8",'','')

@app.route('/')

def home():

return render\_template('register.html')

@app.route('/login', methods =['GET', 'POST'])

def login():

global userid

msg = ''

if request.method == 'POST'and 'username' in request.form and 'password' in request.form:

username = request.form['username']

password = request.form['password']

stmt = ibm\_db.prepare(conn,'SELECT \* FROM accounts WHERE username = ? AND password = ?')

ibm\_db.bind\_param(stmt,1,username)

ibm\_db.bind\_param(stmt,2,password)

ibm\_db.execute(stmt)

account = ibm\_db.fetch\_assoc(stmt)

if account:

session['loggedin'] = True

session['username'] = account['USERNAME']

msg = 'Logged in successfully !'

return render\_template('index.html', msg = msg)

else:

msg = 'Incorrect username / password !'

return render\_template('login.html', msg = msg)

@app.route('/logout')

def logout():

session.pop('loggedin', None)

session.pop('id', None)

session.pop('username', None)

return redirect(url\_for('login'))

@app.route('/register', methods =['GET', 'POST'])

def register():

msg = ''

if request.method == 'POST':

username = request.form['username']

password = request.form['password']

email = request.form['email']

sql = "SELECT \* FROM accounts WHERE username = ? "

stmt = ibm\_db.prepare(conn,sql)

ibm\_db.bind\_param(stmt,1,username)

ibm\_db.execute(stmt)

account = ibm\_db.fetch\_assoc(stmt)

print(account)

if account:

msg = 'Account already exists !'

elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):

msg = 'Invalid email address !'

elif not re.match(r'[A-Za-z0-9]+', username):

msg = 'Username must contain only characters and numbers !'

elif not username or not password or not email:

msg = 'Please fill out the form !'

else:

insert\_sql = "INSERT INTO accounts VALUES (?, ?, ?)"

stmt = ibm\_db.prepare(conn,insert\_sql)

ibm\_db.bind\_param(stmt, 1, username)

ibm\_db.bind\_param(stmt, 2, password)

ibm\_db.bind\_param(stmt, 3, email)

ibm\_db.execute(stmt)

msg = 'You have successfully registered !'

elif request.method == 'POST':

msg = 'Please fill out the form !'

return render\_template('register.html', msg = msg)

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug = True)

**index.html:**

<html>

    <head>

        <meta charset="UTF-8">

        <title> Index </title>

        <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

          <div align="center" class="border">

             <div class="header">

                <h1 class="word">Index</h1>

             </div></br></br></br>

                <h1 class="bottom">

                     Hi {{session.username}}!!</br></br> Welcome to the index page...

                </h1></br></br></br>

                <a href="{{ url\_for('logout') }}" class="btn">Logout</a>

          </div>

        </div>

    </body>

</html>

**register.html:**

<html>

    <head>

        <meta charset="UTF-8">

        <title> Register </title>

        <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

          <div align="center" class="border">

             <div class="header">

                <h1 class="word">Register</h1>

             </div></br></br></br>

            <h2 class="word">

                <form action="{{ url\_for('register') }}" method="post">

                  <div class="msg">{{ msg }}</div>

                    <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>

                    <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br>

                    <input id="email" name="email" type="text" placeholder="Enter Your Email ID" class="textbox"/></br></br>

                    <input type="submit" class="btn" value="Sign Up"></br>

                </form>

            </h2>

            <p class="bottom">Already have an account?  <a class="bottom" href="{{url\_for('login')}}"> Sign In here</a></p>

          </div>

        </div>

    </body>

</html>

**login.html:**

<html>

    <head>

        <meta charset="UTF-8">

        <title> Login </title>

        <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

          <div align="center" class="border">

             <div class="header">

                <h1 class="word">Login</h1>

             </div></br></br></br>

            <h2 class="word">

                <form action="{{ url\_for('login') }}" method="post">

                  <div class="msg">{{ msg }}</div>

                    <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>

                    <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>

                    <input type="submit" class="btn" value="Sign In"></br></br>

                </form>

            </h2>

            <p class="bottom">Don't have an account?  <a class="bottom" href="{{url\_for('register')}}"> Sign Up here</a></p>

          </div>

        </div>

    </body>

</html>

**style.css:**

.header{

                padding: 5px 120px;

                width: 150px;

                height: 70px;

                background-color: #236B8E;

            }

            .border{

                padding: 80px 50px;

                width: 400px;

                height: 450px;

                border: 1px solid #236B8E;

                border-radius: 0px;

                background-color: #9AC0CD;

            }

            .btn {

                padding: 10px 40px;

                background-color: #236B8E;

                color: #FFFFFF;

                font-style: oblique;

                font-weight: bold;

                border-radius: 10px;

            }

            .textbox{

                padding: 10px 40px;

                background-color: #236B8E;

                text-color: #FFFFFF;

                border-radius: 10px;

            }

            ::placeholder {

                color: #FFFFFF;

                opacity: 1;

                font-style: oblique;

                font-weight: bold;

            }

            .word{

                color: #FFFFFF;

                font-style: oblique;

                font-weight: bold;

            }

            .bottom{

                color: #236B8E;

                font-style: oblique;

                font-weight: bold;

            }

**OUTPUT:**

