ASSIGNMENT 2

|  |  |
| --- | --- |
| Student Name | SOWMIYA P |
| Student Roll Number | 811219205016 |
| Team ID | PNT2022TMID45001 |

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

CREATE TABLE User(  
    Email varchar(100),  
    Username varchar(100)  
    Roll number int,  
    Password(100)  
);

INSERT INTO User (Email, Username, Roll number, Password)  
VALUES

(‘abc@gmail.com’, ‘xyz’, ‘111’, ‘abcd’),

(‘123@gmail.com’,’abc’,’112’,’aabb’);

(‘xyz@gmail.com’,’ram’,’113’,’ffihja’);

**2. Perform UPDATE, DELETE Queries with user table**

CREATE TABLE User(  
    Email varchar(100),  
    Username varchar(100)  
    Roll number int,  
    Password(100)  
);

INSERT INTO User (Email, Username, Roll number, Password)  
VALUES

(‘abc@gmail.com’, ‘xyz’, ‘111’, ‘abcd’),

(‘123@gmail.com’,’abc’,’112’,’aabb’);

(‘xyz@gmail.com’,’ram’,’113’,’ffihja’);

|  |
| --- |
|  |
|  |
|  |

UPDATE User

SET Userame = 'shob’

WHERE Roll number = 112

DELETE FROM User

WHERE Username=xyz ;

**3. Connect python code to db2**

import ibm\_db

conn = ibm\_db.connect("database","username","password")

import ibm\_db

ibm\_db.connect("DATABASE=name;HOSTNAME=host;PORT=60000;PROTOCOL=TCPIP;UID=username; PWD=password;", "", "")

**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 database and navigate to login page 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

from flask\_mysqldb import MySQL

import MySQLdb.cursors

import re

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

app.secret\_key = 'your secret key'

app.config['MYSQL\_HOST'] = 'localhost'

app.config['MYSQL\_USER'] = 'root'

app.config['MYSQL\_PASSWORD'] = 'your password'

app.config['MYSQL\_DB'] = 'geeklogin'

mysql = MySQL(app)

@app.route('/')

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

def login():

msg = ''

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

username = request.form['username']

password = request.form['password']

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT \* FROM accounts WHERE username = % s AND password = % s', (username, password, ))

account = cursor.fetchone()

if account:

session['loggedin'] = True

session['id'] = account['id']

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' and 'username' in request.form and 'password' in request.form and 'email' in request.form :

username = request.form['username']

password = request.form['password']

email = request.form['email']

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT \* FROM accounts WHERE username = % s', (username, ))

account = cursor.fetchone()

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:

cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)', (username, password, email, ))

mysql.connection.commit()

msg = 'You have successfully registered !'

elif request.method == 'POST':

msg = 'Please fill out the form !'

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

**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>

**register.html**

        <meta charset="UTF-8">

        <title> Login </title>

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

    </head>

    <body></br></br></br></br></br>

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             <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>

**welcome.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>

**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;

            }