Assignment-3

Team id	PNT2022TMID30808
PROJECT NAME	PERSONAL EXPENSE TRACKER
	APPLICATION
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1. Create User table with user with email, username, roll number, password.

CREATE TABLE user(email varchar(50) not null, username varchar(20) not null, roll_number int not null, password varchar(20) not null)

INSERT INTO user(email, username, roll_number, password)

VALUES('Aadhi@gmail.com','Aadhi12','4017','Aadhi')

2. Perform UPDATE, DELETE Queries with user table

UPDATE user SET username='Aadhi' WHERE email= 'Aadhi@gmail.com'
DELETE FROM user WHERE username = 'Aadhi'

3. Connect python code to db2.

 $conn = ibm_db.connect ("DATABASE=bludb; HOSTNAME=b0 aebb68-94 fa-46 ecal fc-46 ecal fc$

1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;Sec urity=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=kgz66990;PWD=Jy Xwg9tlyalS4PVb;",",")

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.

login.html

```
<html>
       <head>
             <meta charset="UTF-8">
             <title> Login </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
      </head>
      <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Login</h1>
                    </div></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</pre>
Username" class="textbox"/></br>
                                  <input id="password" name="password"</pre>
type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
                                  <input type="submit" class="btn" value="Sign</pre>
In"></br>
```

```
</form>
                    </h2>
                    Don't have an account? <a class="bottom"</pre>
href="{{url_for('register')}}"> Sign Up here</a>
             </div>
             </div>
      </body>
</html>
register.html:
<html>
       <head>
             <meta charset="UTF-8">
             <title> Register </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Register</h1>
                    </div></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>
                                  <input id="password" name="password"</pre>
```

```
type="password" placeholder="Enter Your Password" class="textbox"/></br>
        <input id="email" name="email" type="text" placeholder="Enter Your Email ID"</pre>
class="textbox"/></br>
                                 <input type="submit" class="btn" value="Sign</pre>
Up"></br>
                          </form>
                    </h2>
 Already have an account? <a class="bottom"</pre>
href="{{url_for('login')}}"> Sign In here</a>
             </div>
             </div>
      </body>
</html>
index.html: <html>
       <head>
             <meta charset="UTF-8">
             <title> Index </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
      </head>
      <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Index</h1>
                    </div></br></br>
                           <h1 class="bottom">
                                 Hi {{session.username}}!!</br></br>
page...
```

```
</hl>
</h1></br>
</br>>
</a href="{{ url_for('logout') }}" class="btn">Logout</a>
</div>
</div>
</body>
</html>
```

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=b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=kgz66990;PWD=JyXwg9tlyalS4PVb;",",")

```
@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']
stmt = ibm_db.prepare(conn, 'SELECT * FROM users 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' and 'username' in request.form and 'password' in request.form
and 'email' in request.form:
                      request.form['username']
    username
password = request.form['password'] email
= request.form['email']
    stmt = ibm_db.prepare(conn, 'SELECT * FROM users WHERE username = ?')
ibm_db.bind_param(stmt,1,username)
                                         ibm_db.execute(stmt)
                                                                      account =
ibm_db.fetch_assoc(stmt) if account:
```

```
elif not
       msg = 'Account already exists!'
re.match(r'[^@]+@[^@]+\.[^@]+', email):
       msg = 'Invalid email address!'
                                         elif
not re.match(r'[A-Za-z0-9]+', username):
                                                                        elif
       msg = 'Username must contain only characters and numbers!'
not username or not password or not email:
       msg = 'Please fill out the form!'
else:
       prep_stmt = ibm_db.prepare(conn,"INSERT INTO users VALUES(?, ?, ?)")
ibm_db.bind_param(prep_stmt, 1, username)
                                                   ibm_db.bind_param(prep_stmt,
2, email)
                ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)
                                   msg = 'You have
                           elif request.method == 'POST':
successfully registered!'
msg = 'Please fill out the form!'
render_template('register.html', msg = msg)
if__name__== '_main_':
  app.debug = True
app.run(host='0.0.0.0',port=8080)
```

Output:







