

Assignment-3

Team id	PNT2022TMID26431
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION
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ROLL NO	211719104155

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('varshidh@gmail.com', 'varshidh12', '01154', 'varshidh')
```

2.Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username='varshidh' WHERE email=
```

```
'varshidh@gmail.com' DELETE FROM user WHERE username = 'varshidh'
```

3.Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-  
8954-  
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;Secur  
ity=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hgm40493;PWD=M  
yVIfYf5WrLQF6tG;", "", "")
```

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>

    <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>
```

```
        </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>
```

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 Our
page...

```
</h1></br></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=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hgm40493;PWD=MyVIfYf5WrL
QF6tG;",",")

@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 :
    username = request.form['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:
    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:

```

```

        prep_stmt = ibm_db.prepare(conn,"INSERT INTO users VALUES(?, ?, ?)")
ibm_db.bind_param(prepare_stmt, 1, username)          ibm_db.bind_param(prepare_stmt,
2, email)      ibm_db.bind_param(prepare_stmt, 3, password)

ibm_db.execute(prepare_stmt) msg = 'You have successfully
registered !'

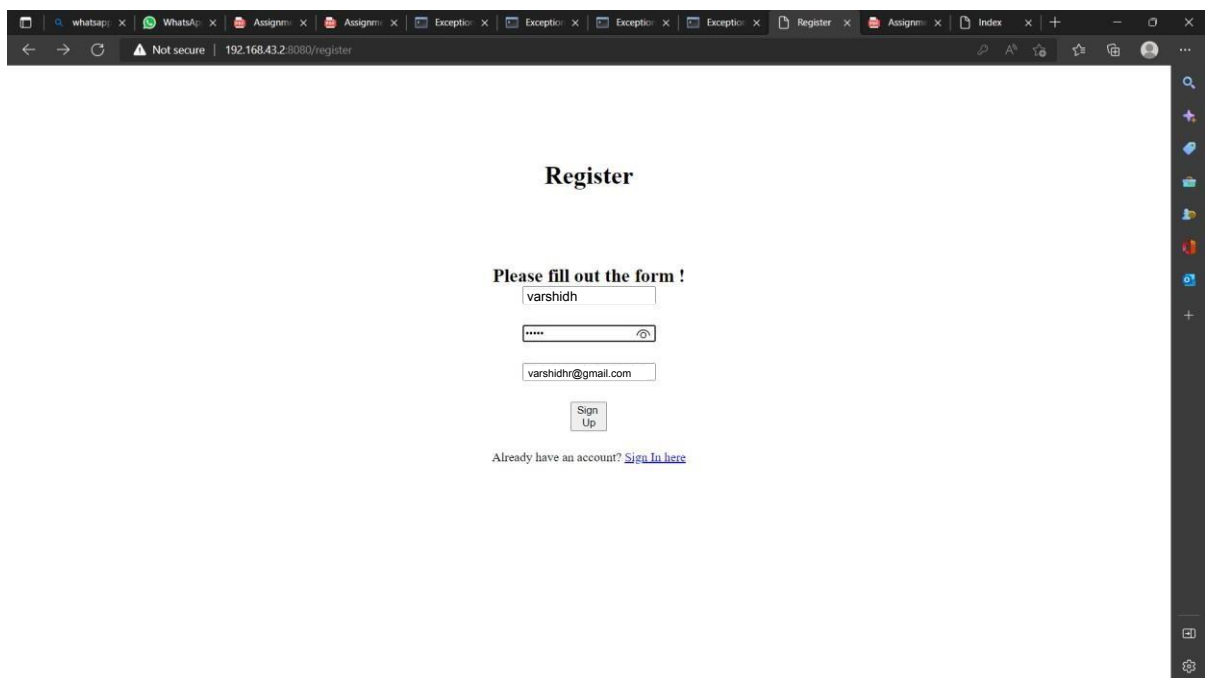
elif request.method == 'POST':      msg =
'Please fill out the form !'      return

render_template('register.html', msg = msg)

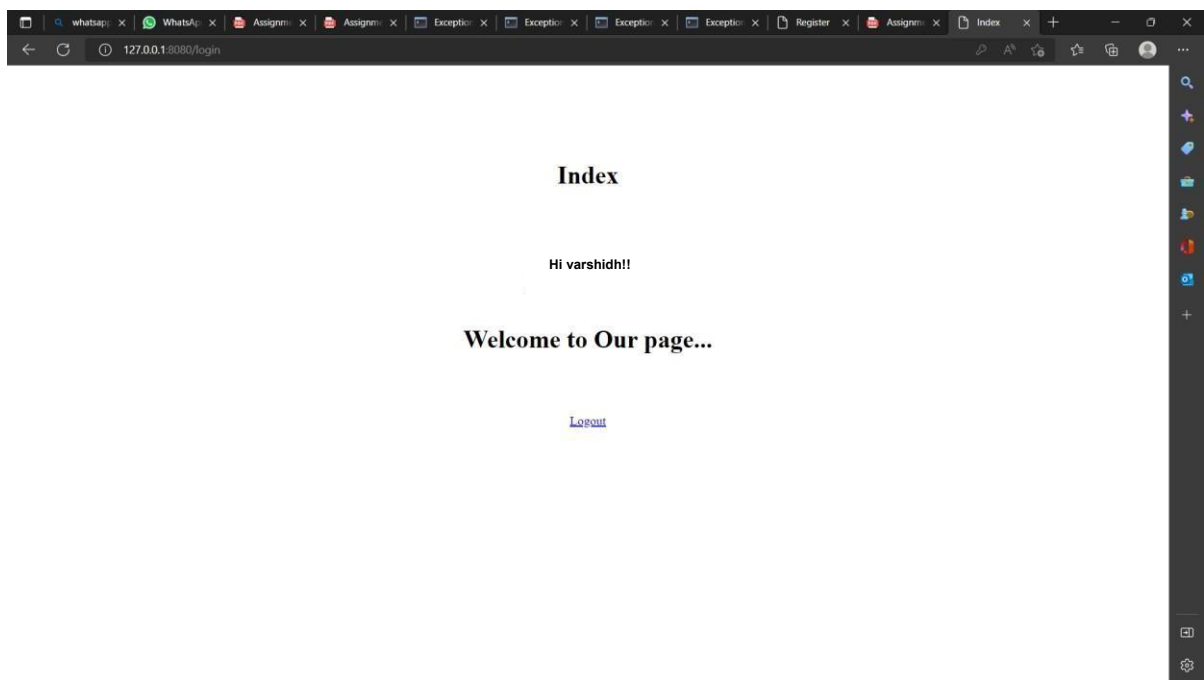
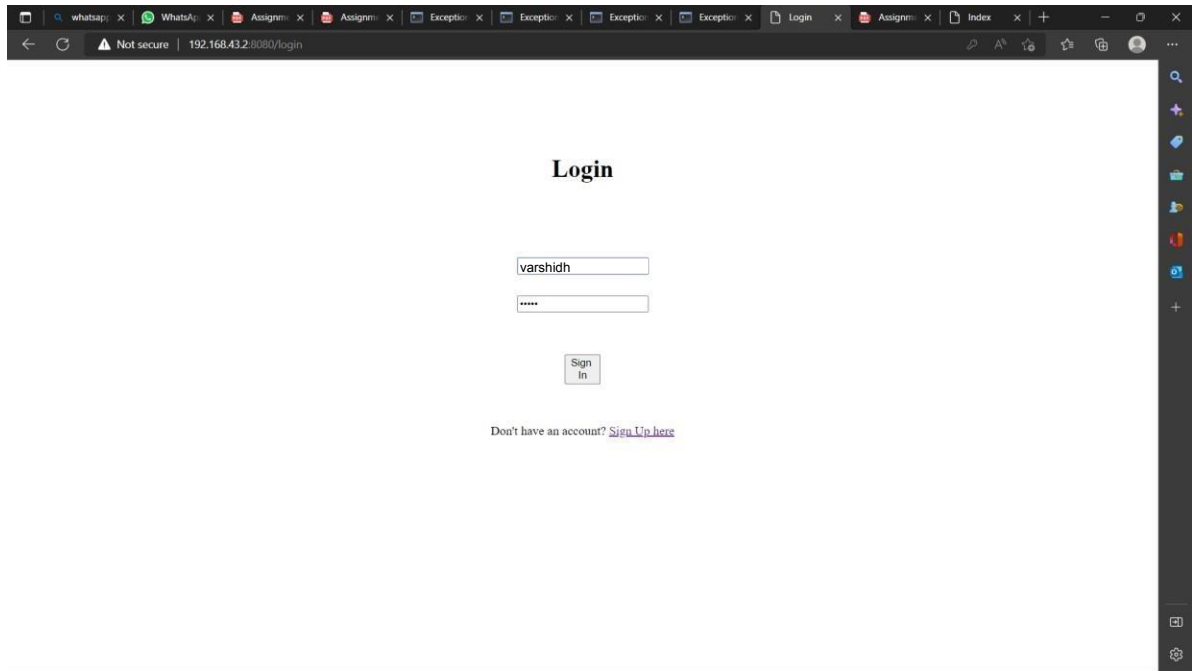
if __name__ == '__main__':
    app.debug = True
    app.run(host='0.0.0.0',port=8080)

```

Output:



The screenshot shows a web browser window with the address bar displaying '192.168.43.2:8080/register'. The page has a dark theme and contains a registration form. The form is titled 'Register' and includes a message 'Please fill out the form !'. The form fields are: a text input for 'varshidh', a password input (masked with '*****'), an email input for 'varshidhr@gmail.com', and a 'Sign Up' button. Below the form, there is a link that says 'Already have an account? [Sign In here](#)'.



IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables Refresh

Tables New table

Name	Schema	Properties
USERS	HGM40493	...
USER	HGM40493	...

Total: 2, selected: 0

Table definition

USERS No statistics available

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	20	0
EMAIL	VARCHAR	N	50	0
PASSWORD	VARCHAR	N	20	0

View data

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

HGM40493.USERS Back

Export to CSV

USERNAME	EMAIL	PASSWORD
varshish	varshidhr@gmail.com	12345