

Assignment-3

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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('manickavasagam@gmail.com','manickavasagam','4026','manickavasaga  
m')
```

2.Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username='manickavasagam ' WHERE  
email='manickavasagam@gmail.com'
```

```
DELETE FROM user WHERE username = 'manickavasagam'
```

3.Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-  
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;Security=SS  
L;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wpt44980;PWD=aj1TyHuazGh4p  
Snw;",",")
```

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>
```

```
</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=125f9f61-9715-46f9-9399-  
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;Security=SSL;  
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wpt44980;PWD=aj1TyHuazGh4p  
Snw;", "", "")
```

```
@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)

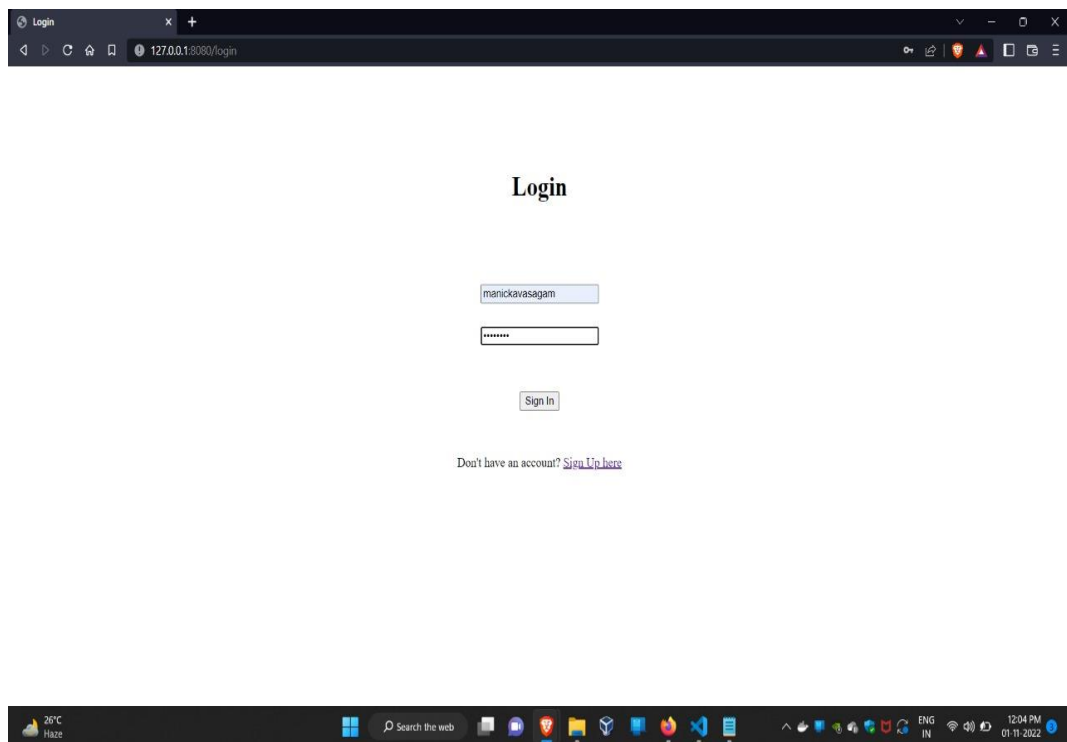
if __name__ == '__main__':

    app.debug = True

    app.run(host='0.0.0.0',port=8080)

```

Output:





Register

Already have an account? [Sign In here](#)



Index

Hi manickavasagam!!

Welcome to Our page...

[Logout](#)



