

# Assignment - III

## Assignment 3.py

```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db
import bcrypt

conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServer
Certificate=DigiCertGlobalRootCA.crt;UID=;PWD=\",\"")

# url_for('static', filename='style.css')

app = Flask(__name__)
app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'

@app.route("/",methods=['GET'])
def home():
    if 'email' not in session:
        return redirect(url_for('login'))
    return render_template('home.html',name='Home')

@app.route("/register",methods=['GET','POST'])
def register():
    if request.method == 'POST':
```

```
email = request.form['email']
username = request.form['username']
rollNo = request.form['rollNo']
password = request.form['password']
```

```
if not email or not username or not rollNo or not password:
```

```
    return render_template('register.html',error='Please fill all fields')
```

```
hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
```

```
query = "SELECT * FROM USER WHERE email=? OR rollNo=?"
```

```
stmt = ibm_db.prepare(conn, query)
```

```
ibm_db.bind_param(stmt,1,email)
```

```
ibm_db.bind_param(stmt,2,rollNo)
```

```
ibm_db.execute(stmt)
```

```
isUser = ibm_db.fetch_assoc(stmt)
```

```
if not isUser:
```

```
    insert_sql = "INSERT INTO User(username,email,PASSWORD,rollNo) VALUES  
(?,?,?,?)"
```

```
    prep_stmt = ibm_db.prepare(conn, insert_sql)
```

```
    ibm_db.bind_param(prepare_stmt, 1, username)
```

```
    ibm_db.bind_param(prepare_stmt, 2, email)
```

```
    ibm_db.bind_param(prepare_stmt, 3, hash)
```

```
    ibm_db.bind_param(prepare_stmt, 4, rollNo)
```

```
    ibm_db.execute(prepare_stmt)
```

```
    return render_template('register.html',success="You can login")
```

```
else:
```

```
return render_template('register.html',error='Invalid Credentials')
```

```
return render_template('register.html',name='Home')
```

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

```
def login():
```

```
    if request.method == 'POST':
```

```
        email = request.form['email']
```

```
        password = request.form['password']
```

```
    if not email or not password:
```

```
        return render_template('login.html',error='Please fill all fields')
```

```
    query = "SELECT * FROM USER WHERE email=?"
```

```
    stmt = ibm_db.prepare(conn, query)
```

```
    ibm_db.bind_param(stmt,1,email)
```

```
    ibm_db.execute(stmt)
```

```
    isUser = ibm_db.fetch_assoc(stmt)
```

```
    print(isUser,password)
```

```
    if not isUser:
```

```
        return render_template('login.html',error='Invalid Credentials')
```

```
    isPasswordMatch = bcrypt.checkpw(password.encode('utf-8'),isUser['PASSWORD'].encode('utf-8'))
```

```
    if not isPasswordMatch:
```

```
        return render_template('login.html',error='Invalid Credentials')
```

```
session['email'] = isUser['EMAIL']
```

```
return redirect(url_for('home'))
```

```
return render_template('login.html',name='Home')
```

```
@app.route('/logout')
```

```
def logout():
```

```
    session.pop('email', None)
```

```
    return redirect(url_for('login'))
```

## Homepage.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    WELCOME

    <button><a href="/logout">LOGOUT</a></button>
  </body>
</html>
```

## Loginpage.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Login</title>
  </head>
  <body>
    <h3>Login</h3>
    <form method="POST">
      <input type="email" name="email" placeholder="Email" required />
      <input type="password" name="password" placeholder="Password" required />
      <button type="submit">Login</button>
    </form>
    <p>{{ success }}</p>
    <p style="color: red">{{ error }}</p>

    <a href="/register">Don't have an account? Register</a>
  </body>
</html>
```

## Registerpage.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Login</title>
  </head>
  <body>
    <h3>Login</h3>
    <form method="POST">
      <input type="email" name="email" placeholder="Email" required />
      <input type="password" name="password" placeholder="Password" required />
      <button type="submit">Login</button>
    </form>
    <p>{{ success }}</p>
    <p style="color: red">{{ error }}</p>

    <a href="/register">Don't have an account? Register</a>
  </body>
</html>
```