

ASSIGNMENT-2

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III-YEAR CSE

(TEAM LEADER)

In the last Assignment you have created index.html and profile.html. So, now in this assignment you have create two html pages and style it using css.

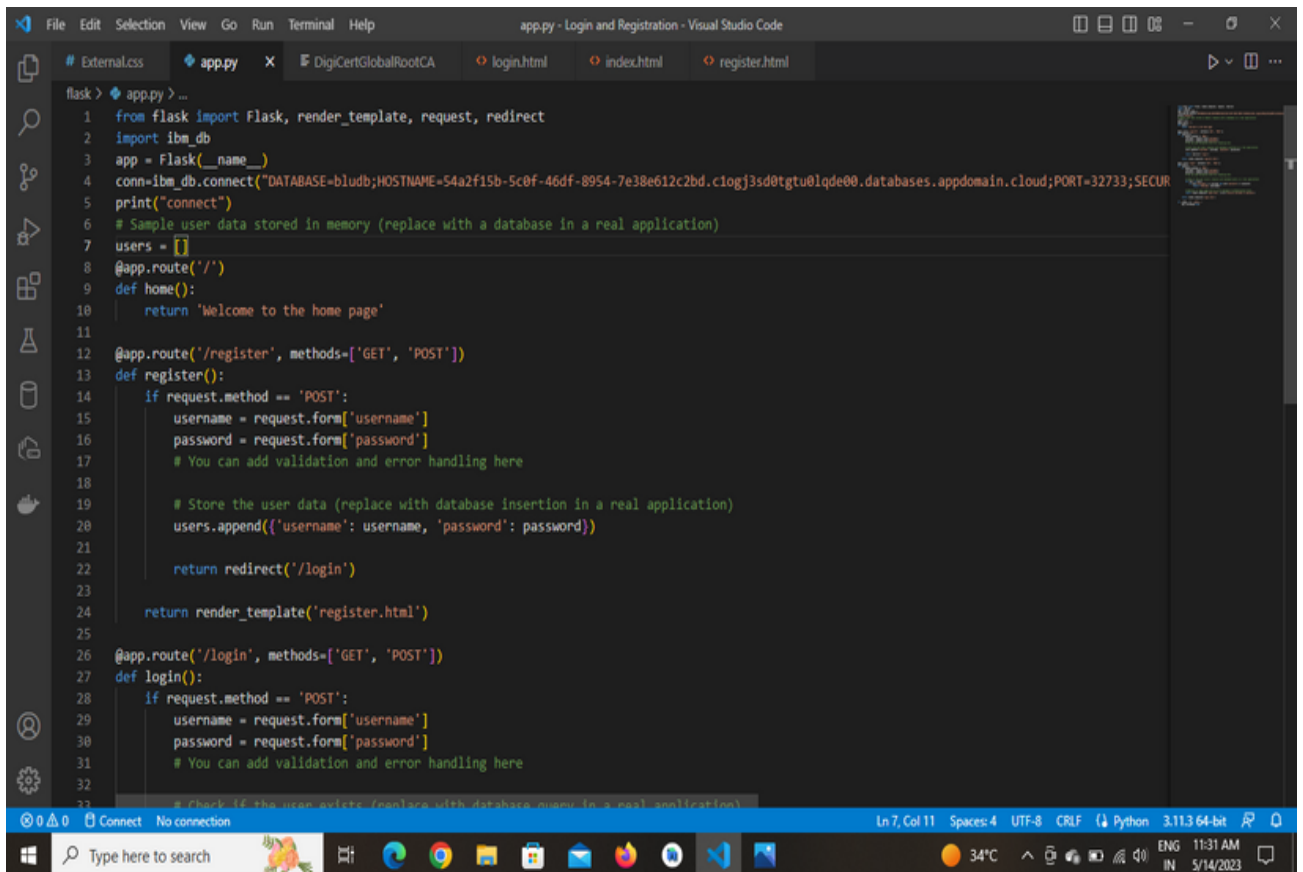
1. Login and Register html page

Task 1: You need to run the html pages in server by using Flask web framework

Task 2: Store the user registration details in IBM DB2

Task 3: while user logging in do the login validation (checking the login credentials is correct or not)

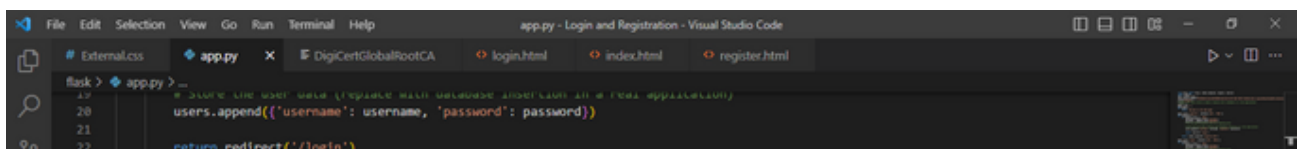
App.py:



The screenshot shows a Visual Studio Code editor window titled "app.py - Login and Registration - Visual Studio Code". The editor displays the following Python code for app.py:

```
1 from flask import Flask, render_template, request, redirect
2 import ibm_db
3 app = Flask(__name__)
4 conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECUR
5 print("connect")
6 # Sample user data stored in memory (replace with a database in a real application)
7 users = []
8 @app.route('/')
9 def home():
10     return 'Welcome to the home page'
11
12 @app.route('/register', methods=['GET', 'POST'])
13 def register():
14     if request.method == 'POST':
15         username = request.form['username']
16         password = request.form['password']
17         # You can add validation and error handling here
18
19         # Store the user data (replace with database insertion in a real application)
20         users.append({'username': username, 'password': password})
21
22         return redirect('/login')
23
24     return render_template('register.html')
25
26 @app.route('/login', methods=['GET', 'POST'])
27 def login():
28     if request.method == 'POST':
29         username = request.form['username']
30         password = request.form['password']
31         # You can add validation and error handling here
32
33         # Check if the user exists (replace with database query in a real application)
```

The status bar at the bottom indicates the file is at Line 7, Column 11, with 4 spaces, UTF-8 encoding, CRLF line endings, Python 3.11.3 64-bit, and a "Connect No connection" status.



This close-up screenshot shows the register function in app.py, specifically lines 14 through 22:

```
14     if request.method == 'POST':
15         username = request.form['username']
16         password = request.form['password']
17         # You can add validation and error handling here
18
19         # Store the user data (replace with database insertion in a real application)
20         users.append({'username': username, 'password': password})
21
22         return redirect('/login')
```

```
23     return render_template('register.html')
24
25
26 @app.route('/login', methods=['GET', 'POST'])
27 def login():
28     if request.method == 'POST':
29         username = request.form['username']
30         password = request.form['password']
31         # You can add validation and error handling here
32
33         # Check if the user exists (replace with database query in a real application)
34         for user in users:
35             if user['username'] == username and user['password'] == password:
36                 return f'Welcome, {username}!'
37
38         # Redirect to login page with an error message if authentication fails
39         return render_template('login.html', error='Invalid username or password')
40
41     return render_template('login.html')
42
43 if __name__ == '__main__':
44     app.run(debug=True)
45
```

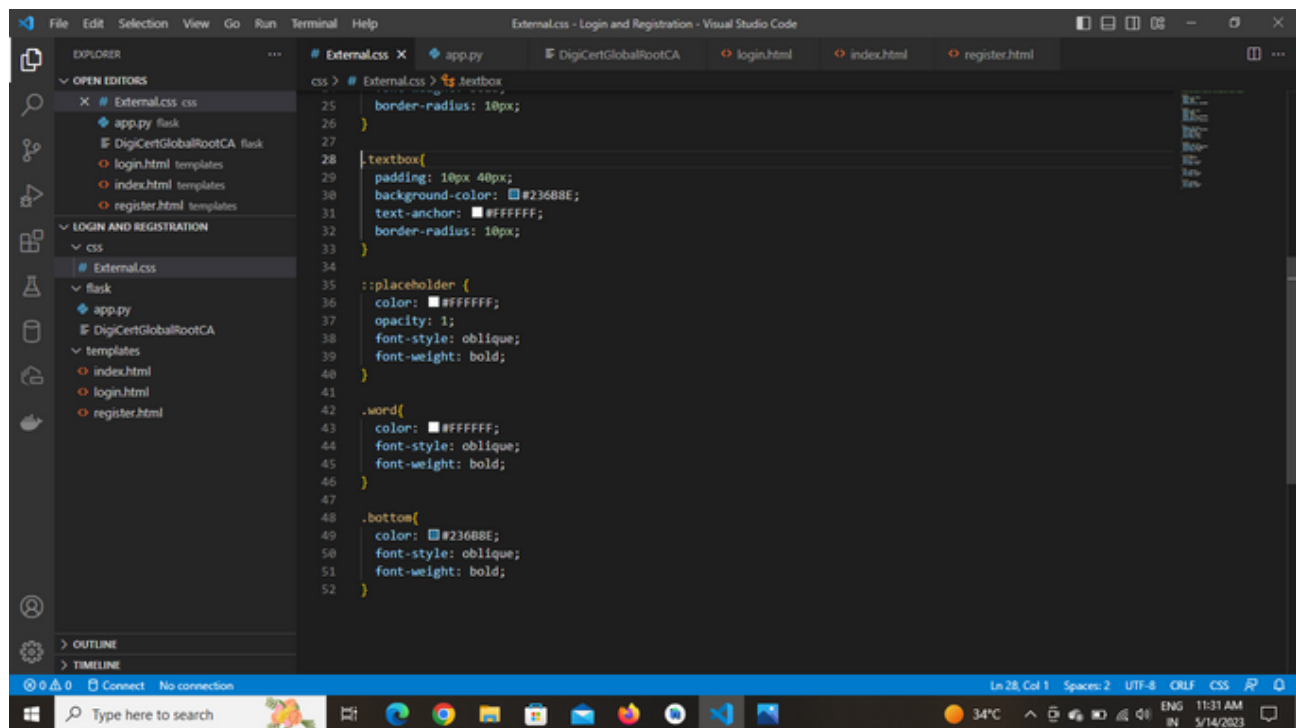
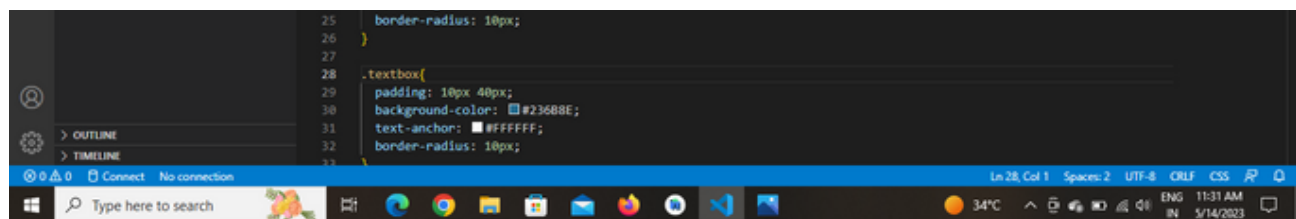
Ln 7, Col 11 Spaces: 4 UTF-8 CRLF Python 3.11.3 64-bit

Type here to search

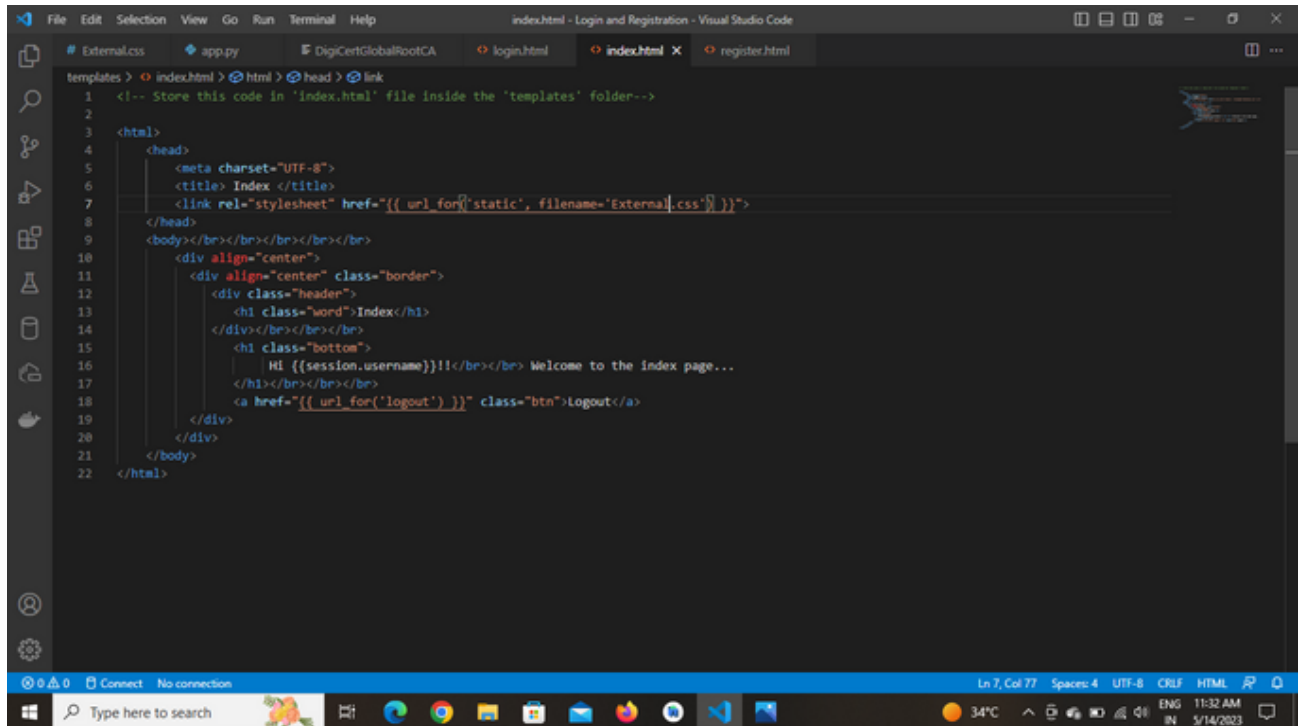
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External.css

```
File Edit Selection View Go Run Terminal Help External.css - Login and Registration - Visual Studio Code
EXPLORER
  OPEN EDITORS
    External.css.css
    app.py flask
    DigiCertGlobalRootCA flask
    login.html templates
    index.html templates
    register.html templates
  LOGIN AND REGISTRATION
    css
      External.css
    flask
      app.py
      DigiCertGlobalRootCA
    templates
      index.html
      login.html
      register.html
  External.css X
  app.py
  DigiCertGlobalRootCA
  login.html
  index.html
  register.html
css > External.css >  textbox
1  /* Store this code in 'style.css' file inside the 'static' folder*/
2
3  .header{
4      padding: 5px 120px;
5      width: 150px;
6      height: 70px;
7      background-color: #23688E;
8  }
9
10 .border{
11     padding: 80px 50px;
12     width: 400px;
13     height: 450px;
14     border: 1px solid #23688E;
15     border-radius: 0px;
16     background-color: #9AC8CD;
17 }
18
19 .btn {
20     padding: 10px 40px;
21     background-color: #23688E;
22     color: #FFFFFF;
23     font-style: oblique;
24     font-weight: bold;
```

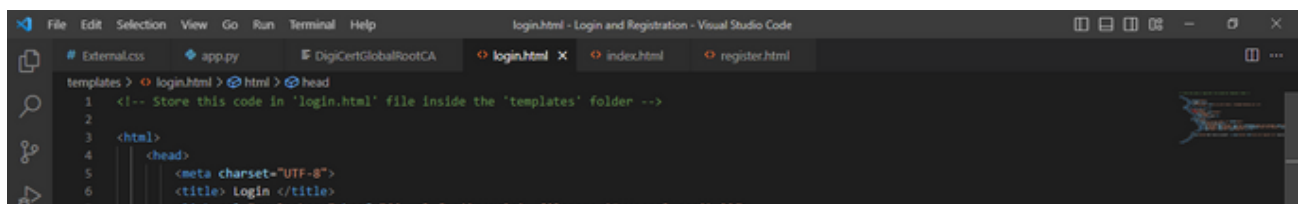


Index.html



```
1 <!-- Store this code in 'index.html' file inside the 'templates' folder-->
2
3 <html>
4   <head>
5     <meta charset="UTF-8">
6     <title> Index </title>
7     <link rel="stylesheet" href="{{ url_for('static', filename='External.css')}}">
8   </head>
9   <body><br></br></br></br></br>
10   <div align="center">
11     <div class="header">
12       <div class="word">Index</div>
13     </div><br></br></br></br>
14     <div class="bottom">
15       <div class="word">Hi {{session.username}}!!</div><br></br> Welcome to the index page...
16     </div><br></br></br></br>
17     <a href="{{ url_for('logout')}}" class="btn">Logout</a>
18   </div>
19 </body>
20 </html>
```

Login.html



```
1 <!-- Store this code in 'login.html' file inside the 'templates' folder-->
2
3 <html>
4   <head>
5     <meta charset="UTF-8">
6     <title> Login </title>
7     <link rel="stylesheet" href="{{ url_for('static', filename='External.css')}}">
```

```
8      </head>
9      <body></br></br></br></br></br>
10     <div align="center">
11       <div align="center" class="border">
12         <div class="header">
13           <h1 class="word">Login</h1>
14         </div></br></br></br></br>
15         <h2 class="word">
16           <form action="{{ url_for('login') }}" method="post">
17             <div class="msg">{{ msg }}</div>
18             <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
19             <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>
20             <input type="submit" class="btn" value="Sign In"></br></br>
21           </form>
22         </h2>
23         <p class="bottom">Don't have an account? <a class="bottom" href="{{url_for('register')}}"> Sign Up here</a></p>
24       </div>
25     </div>
26   </body>
27 </html>
```

Register.html

```
1  <!-- Store this code in 'register.html' file inside the 'templates' folder -->
2
3  <html>
4    <head>
5      <meta charset="UTF-8">
6      <title> Register </title>
7      <link rel="stylesheet" href="{{ url_for('static', filename='External.css')}}">
8    </head>
9    <body></br></br></br></br></br>
10   <div align="center">
11     <div align="center" class="border">
12       <div class="header">
13         <h1 class="word">Register</h1>
14       </div></br></br></br></br>
15       <h2 class="word">
16         <form action="{{ url_for('register') }}" method="post">
17           <div class="msg">{{ msg }}</div>
18           <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
19           <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
20           <input id="email" name="email" type="text" placeholder="Enter Your Email ID" class="textbox"/></br></br>
21           <input type="submit" class="btn" value="Sign Up"></br>
22         </form>
23       </h2>
24       <p class="bottom">Already have an account? <a class="bottom" href="{{url_for('login')}}"> Sign In here</a></p>
25     </div>
26   </div>
27 </body>
28 </html>
```

Login page:

Login

Enter Your Username

Enter Your Password

Sign In

Don't have an account? [Sign Up here](#)

Registration page:

Register

Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

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

If registration successful:

Register

You have successfully registered!

Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

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

Database Table:

Service Details - IBM Cloud

IBM Db2 on Cloud

IBM

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemox%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Fc182babed5914f8bbb9a52c024a74...

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

Find schemas or tables

Refresh

Tables

New table

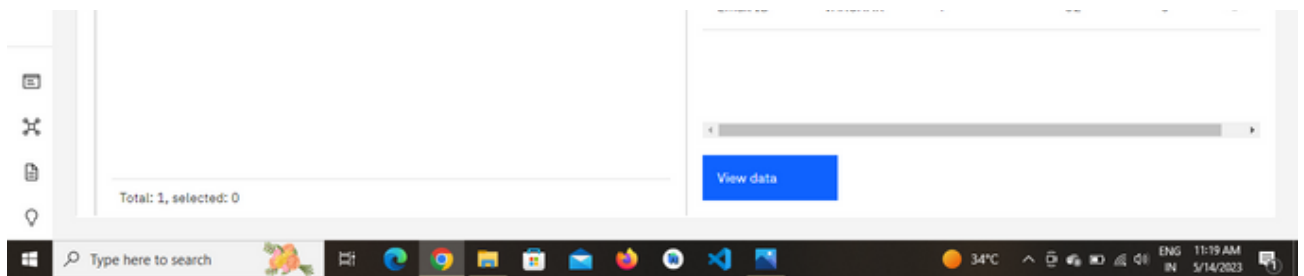
Name	Schema	Properties
REGISTER	HJN64724	...

Table definition

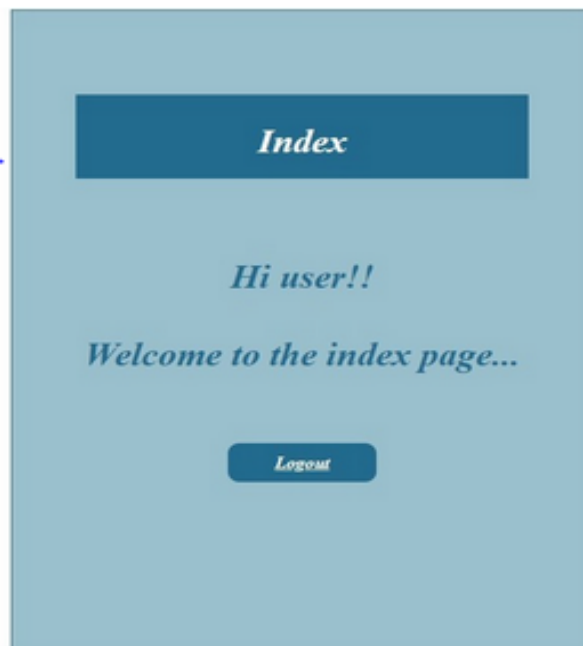
REGISTER

No statistics available

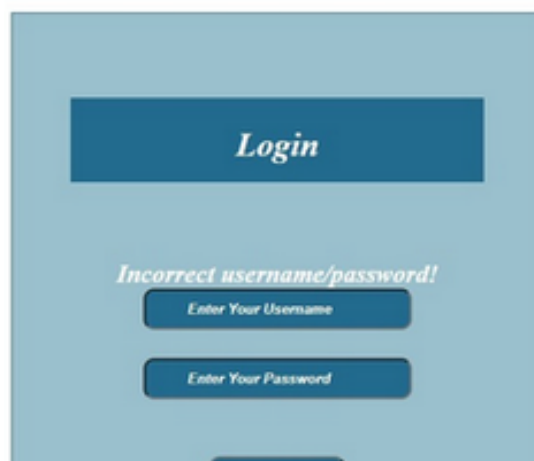
Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0
Email ID	VARCHAR	Y	32	0



If login successful:



Index page is displayed:



[Sign In](#)

Don't have an account? [Sign Up here](#)

