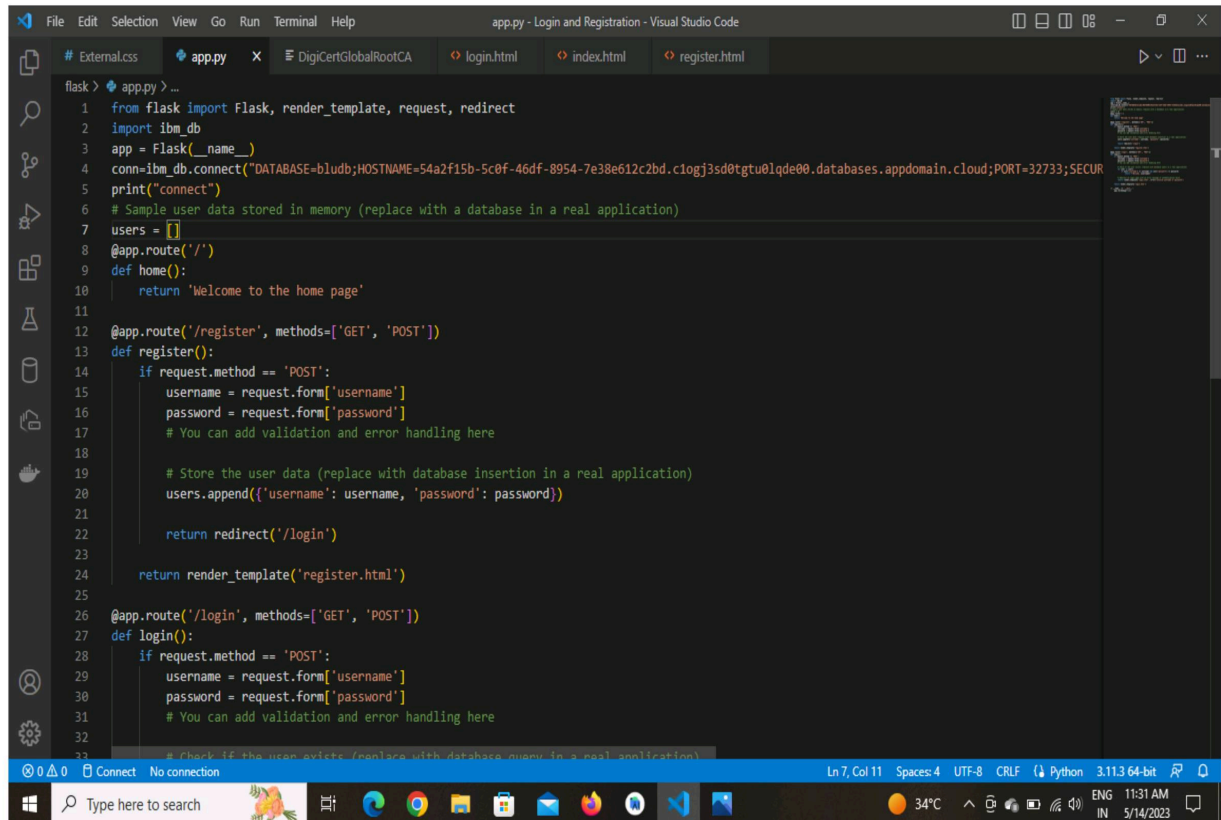
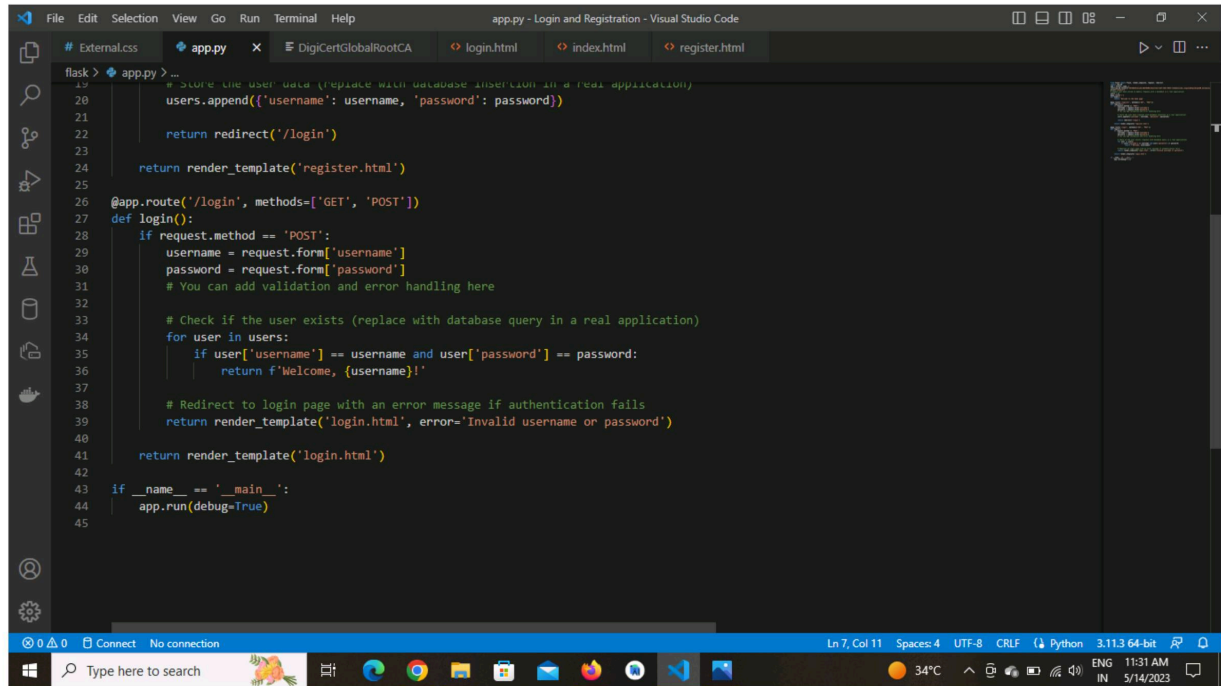


# App.py:



```
flask > 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)
```



```
File Edit Selection View Go Run Terminal Help
app.py - Login and Registration - Visual Studio Code

# External.css
app.py
DigiCertGlobalRootCA
login.html
index.html
register.html

flask > app.py > ...
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)
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
```

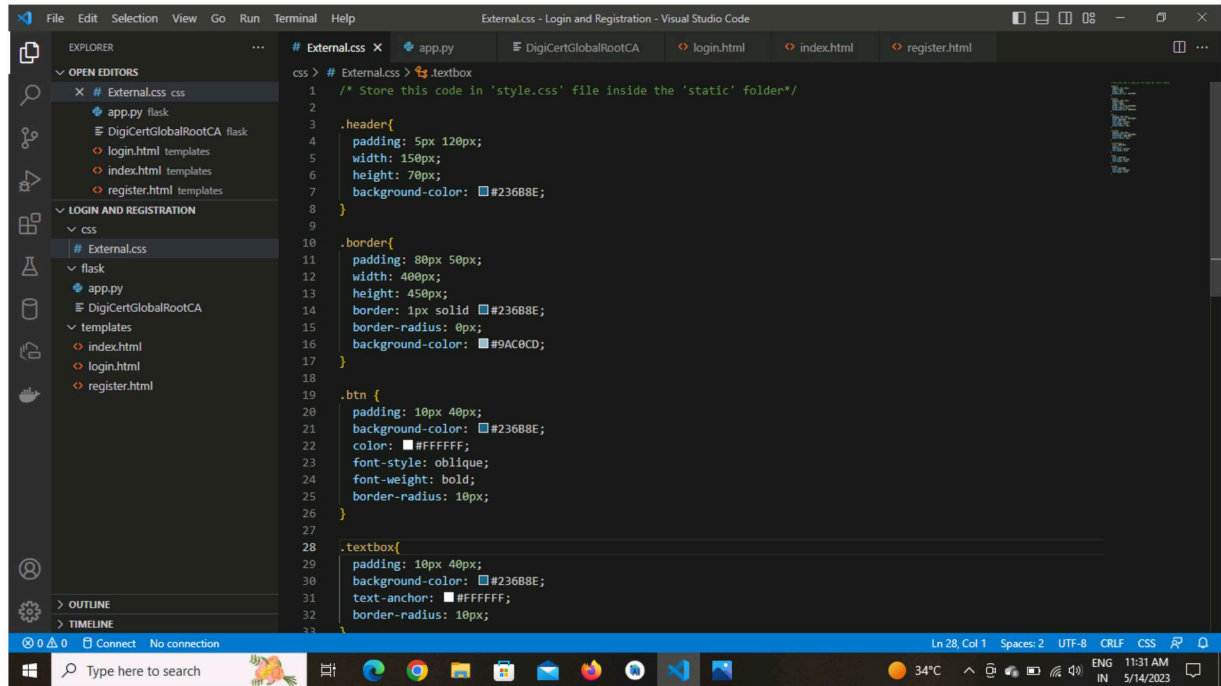
Ln 7, Col 11 Spaces: 4 UTF-8 CRLF Python 3.11.3 64-bit

0 0 0 Connect No connection

Type here to search

34°C 11:31 AM 5/14/2023

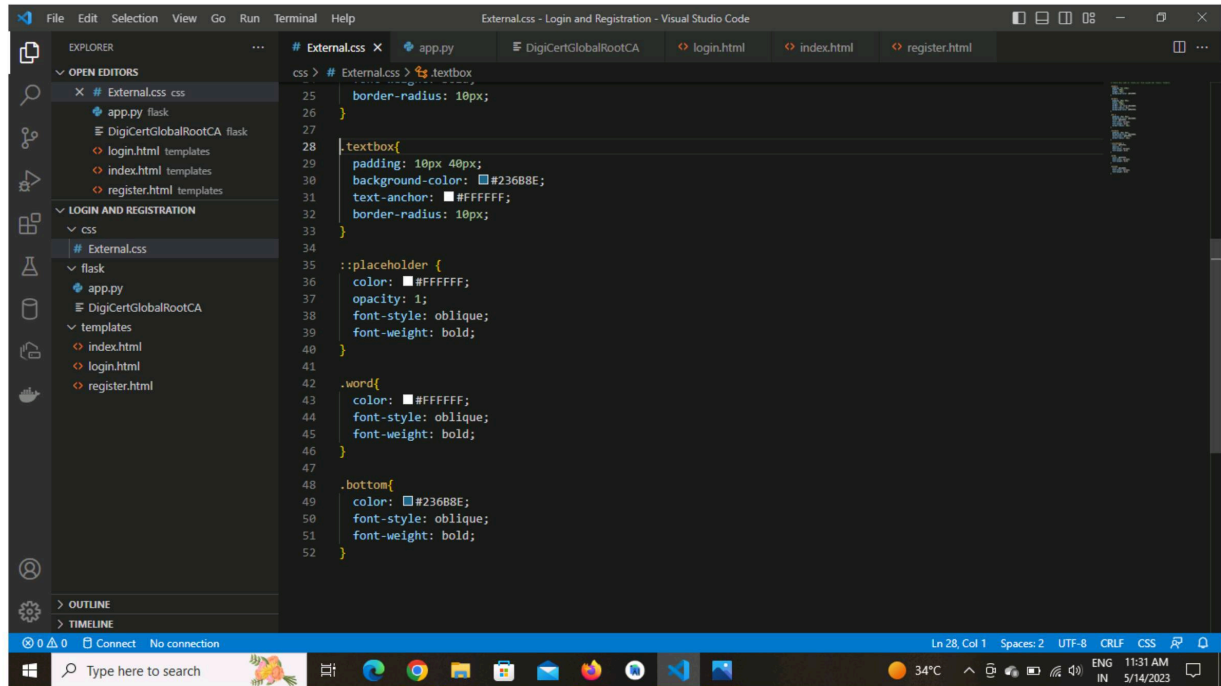
# External.css



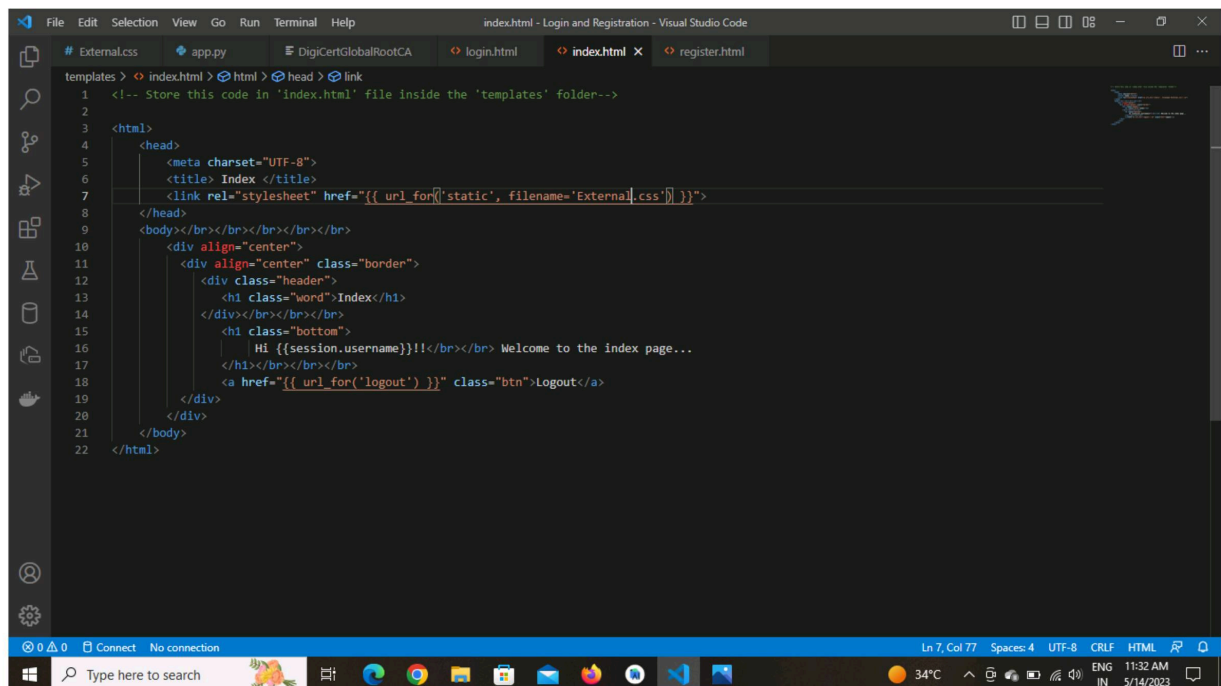
The screenshot shows the Visual Studio Code interface with the following details:

- Explorer Panel:** Shows the project structure with folders for `External.css`, `app.py`, `DigiCertGlobalRootCA`, `login.html`, `index.html`, and `register.html`. The `External.css` folder is expanded, showing its contents.
- Editor Panel:** Displays the `External.css` file with the following CSS code:

```
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: #236B8E;
8  }
9
10 .border{
11     padding: 80px 50px;
12     width: 400px;
13     height: 450px;
14     border: 1px solid #236B8E;
15     border-radius: 0px;
16     background-color: #9AC0CD;
17 }
18
19 .btn {
20     padding: 10px 40px;
21     background-color: #236B8E;
22     color: #FFFFFF;
23     font-style: oblique;
24     font-weight: bold;
25     border-radius: 10px;
26 }
27
28 .textbox{
29     padding: 10px 40px;
30     background-color: #236B8E;
31     text-anchor: #FFFFFF;
32     border-radius: 10px;
33 }
```
- Terminal Panel:** Shows the status "No connection".
- Bottom Bar:** Displays the status "Ln 28, Col 1 Spaces: 2 UTF-8 CRLF CSS" and the system clock "11:31 AM 5/14/2023".

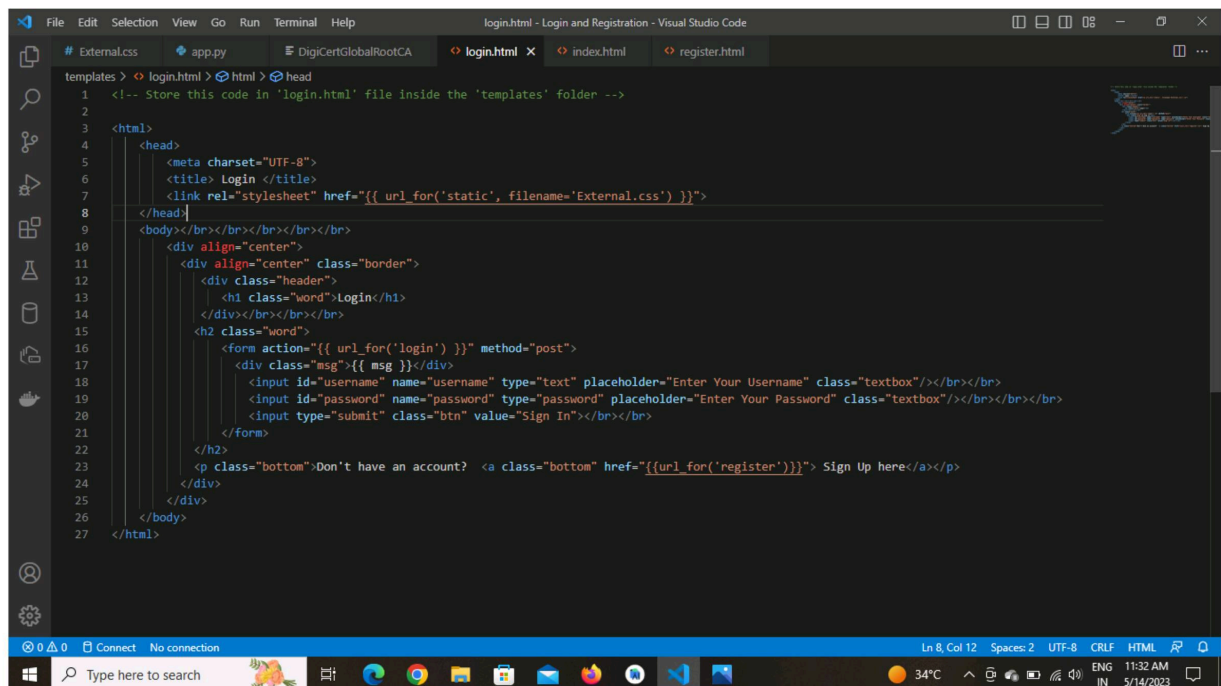


# Index.html



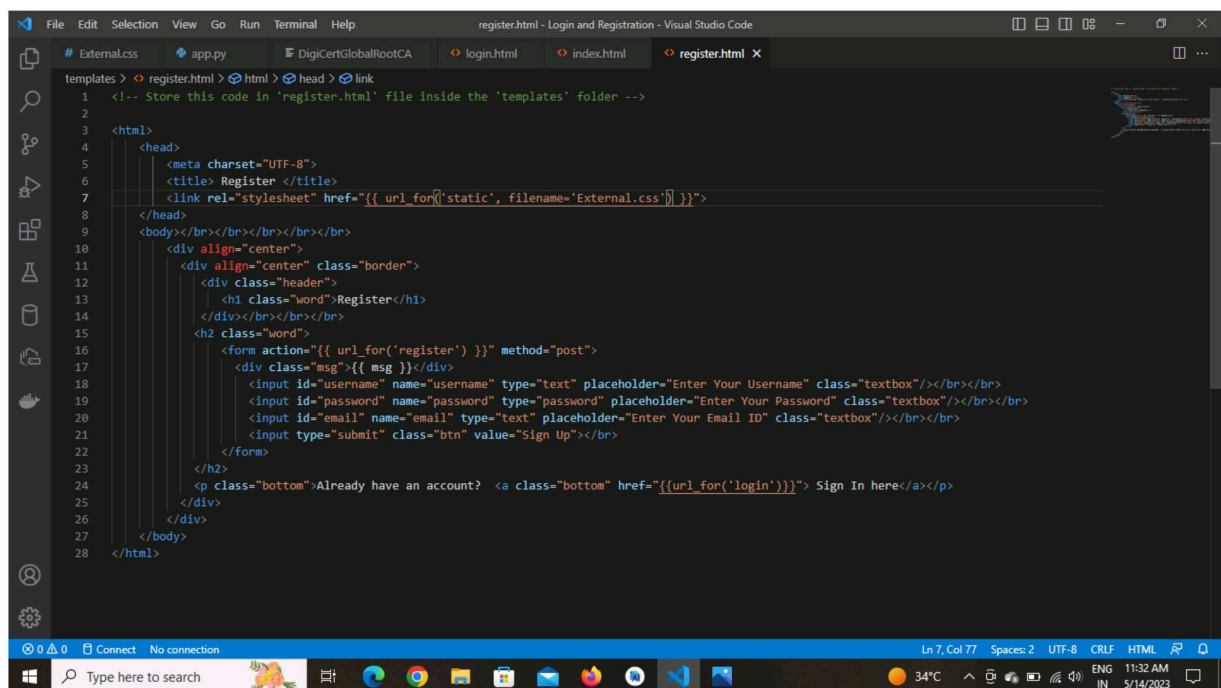
```
1 <!-- Store this code in 'index.html' file inside the 'templates' folder-->
2
3 <html>
4   <head>
5     <meta charset="UTF-8">
6     <title> Index </title>
7     <link rel="stylesheet" href="{{ url_for('static', filename='External.css')}}">
8   </head>
9   <body></br></br></br></br></br>
10   <div align="center">
11     <div align="center" class="border">
12       <div class="header">
13         <h1 class="word">Index</h1>
14       </div></br></br></br>
15       <div class="bottom">
16         Hi {{session.username}}!!</br></br> Welcome to the index page...
17       </div></br></br></br>
18       <a href="{{ url_for('logout') }}" class="btn">Logout</a>
19     </div>
20   </div>
21 </body>
22 </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>
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>
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:



The login page features a light blue background. At the top, a dark blue rectangular box contains the word "Login" in a white, italicized serif font. Below this, there are three dark blue rounded rectangular input fields. The first two are labeled "Enter Your Username" and "Enter Your Password" in a small, italicized white font. The third is a "Sign In" button, also in a small, italicized white font. At the bottom, a line of text in a small, italicized dark blue font reads "Don't have an account? [Sign Up here](#)".

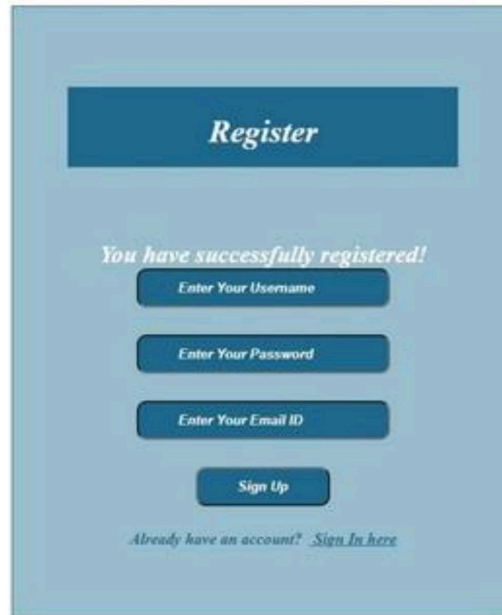
Registration page:



The registration page features a light blue background. At the top, a dark blue rectangular box contains the word "Register" in a white, italicized serif font. Below this, there are three dark blue rounded rectangular input fields. The first two are labeled "Enter Your Username" and "Enter Your Password" in a small, italicized white font. The third is labeled "Enter Your Email ID" in a small, italicized white font. Below these is a "Sign Up" button, also in a small, italicized white font. At the bottom, a line of text in a small, italicized dark blue font reads "Already have an account? [Sign In here](#)".

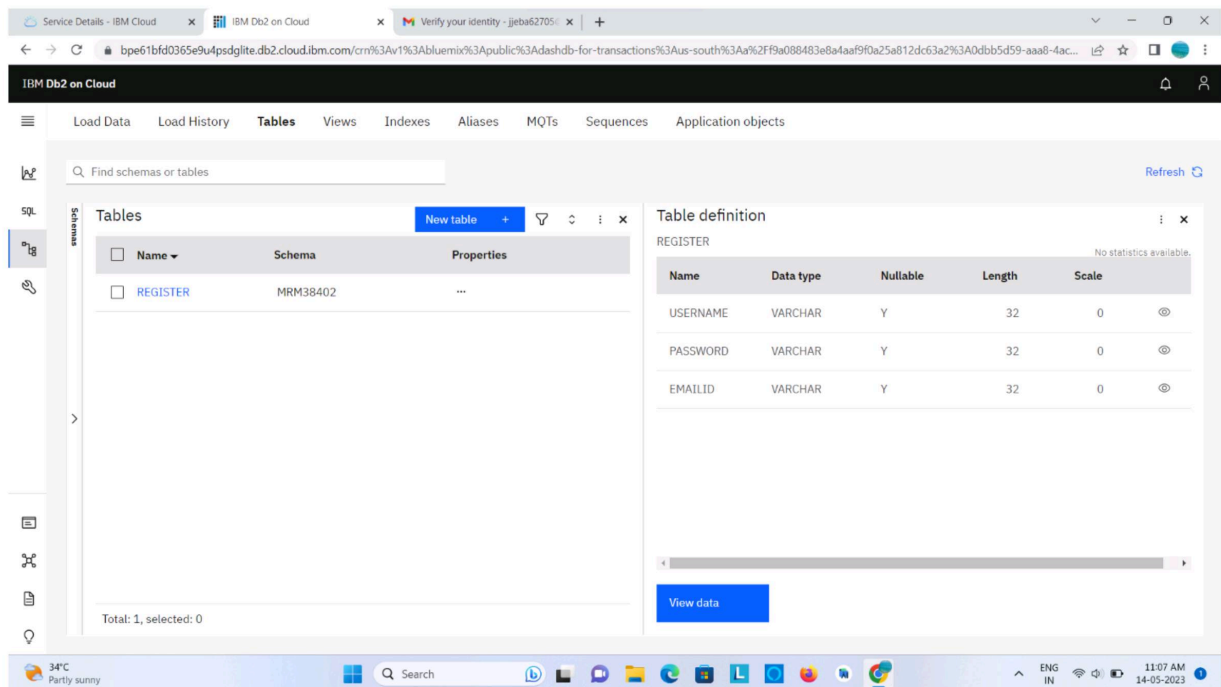


If registration successful:



A registration success screen with a light blue background. At the top, a dark blue button labeled "Register" is centered. Below it, the text "You have successfully registered!" is displayed in a light blue, italicized font. Underneath this text are three dark blue buttons stacked vertically, labeled "Enter Your Username", "Enter Your Password", and "Enter Your Email ID". Below these buttons is a single dark blue button labeled "Sign Up". At the bottom, the text "Already have an account? Sign In here" is displayed in a light blue, italicized font.

Database Table:



The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes "Load Data", "Load History", "Tables", "Views", "Indexes", "Aliases", "MQTs", "Sequences", and "Application objects". The "Tables" tab is selected. On the left, a search bar "Find schemas or tables" is present. Below it, a table lists the available tables:

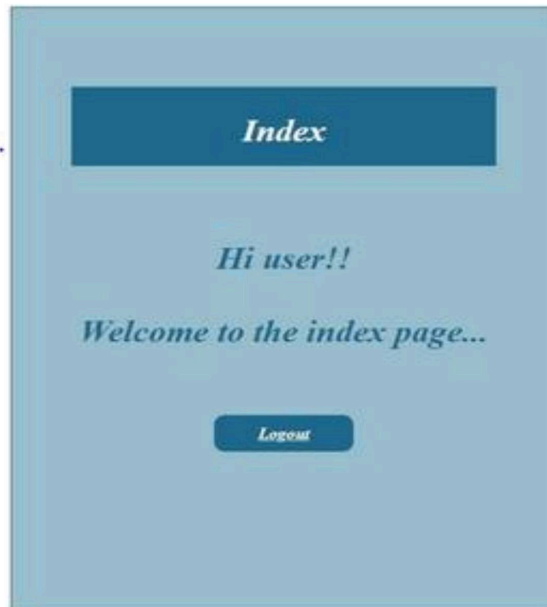
Name	Schema	Properties
REGISTER	MRM38402	...

On the right, the "Table definition" panel for the "REGISTER" table is shown. It displays the table's structure:

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

At the bottom of the interface, a status bar shows the temperature (34°C), weather (Partly sunny), and the time (11:07 AM, 14-05-2023).

If login successful:



Index page is displayed:

