

ASSIGNMENT-2

J.Indra Sibi

VV COLLEGE OF ENGINEERING

III-YEAR CSE

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.

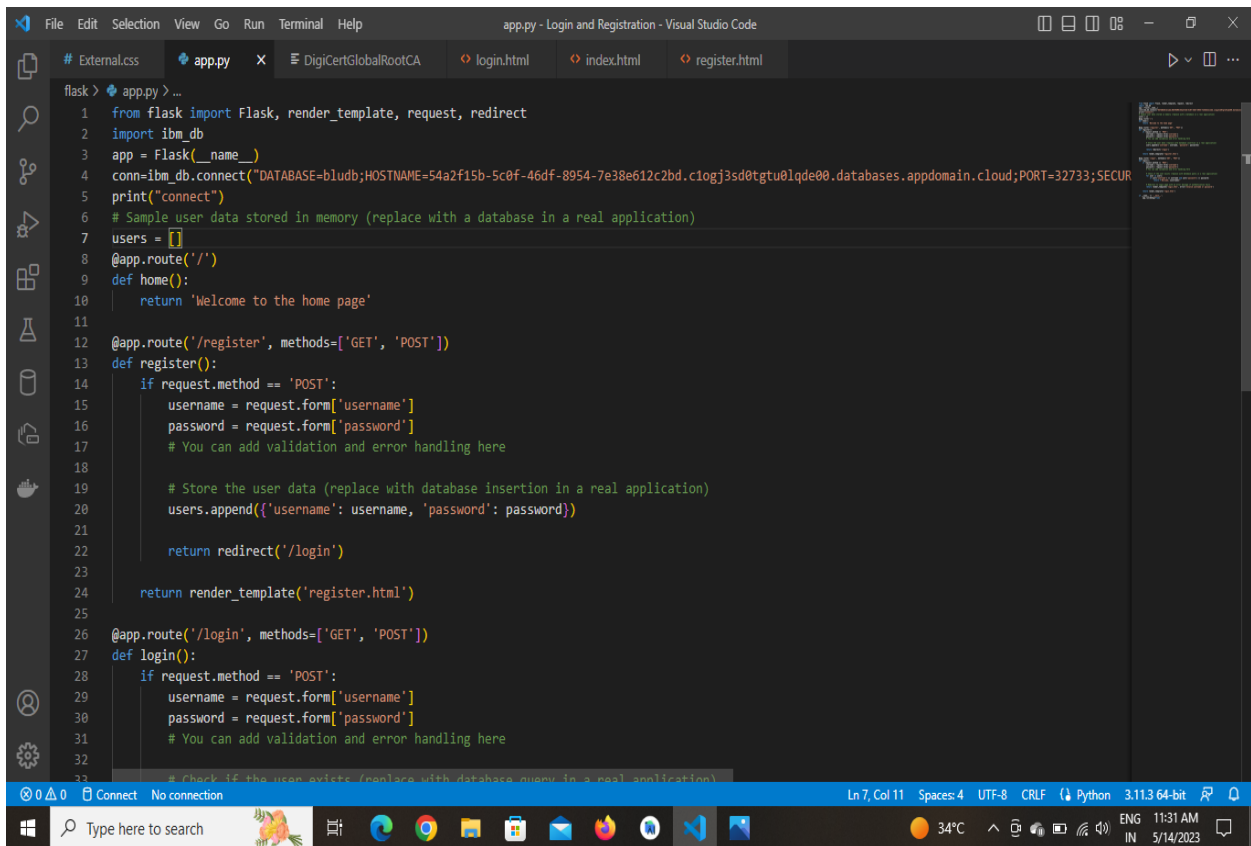
1. Login and Register html page

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:



```
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)
```

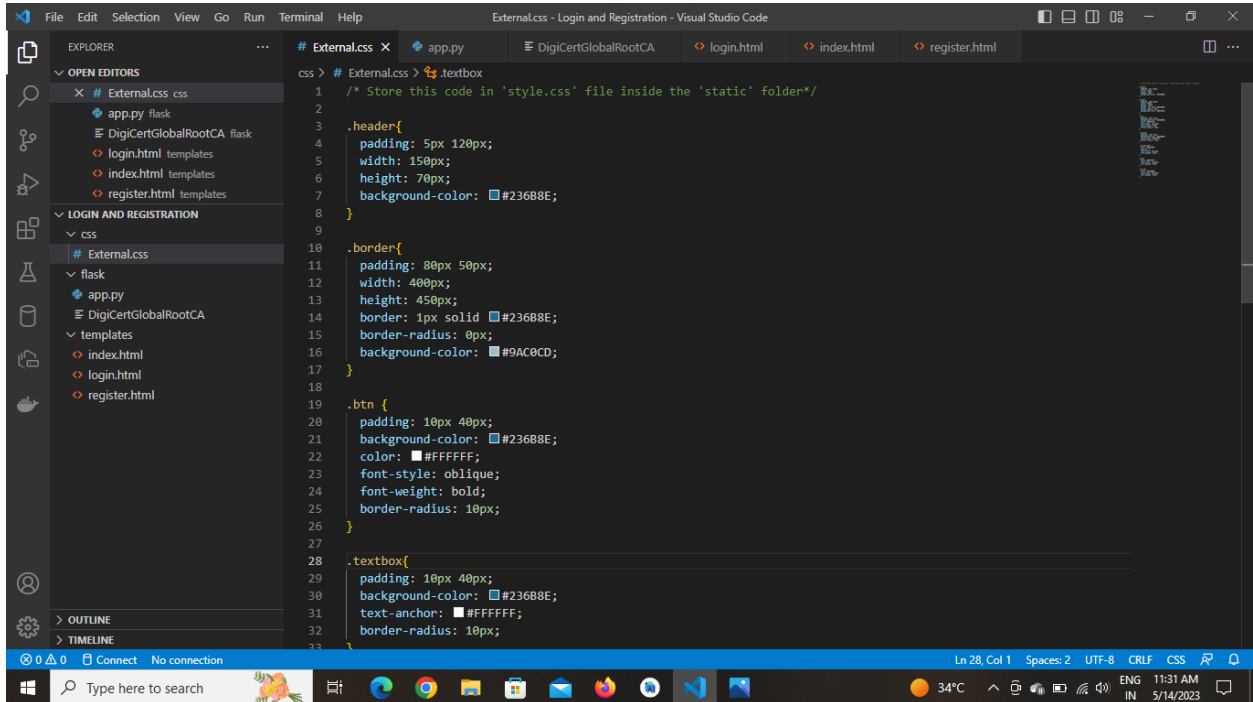
```
File Edit Selection View Go Run Terminal Help
app.py - Login and Registration - Visual Studio Code

# External.css
app.py x
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
```

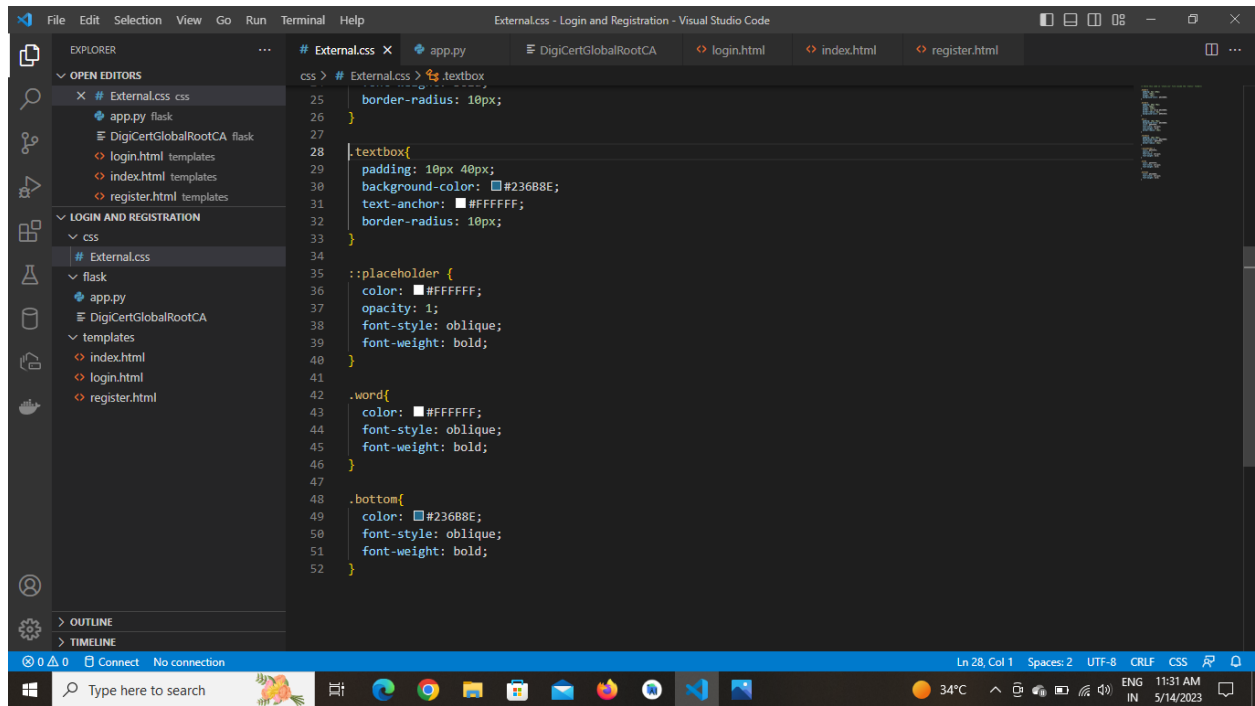
Ln 7, Col 11 Spaces: 4 UTF-8 CRLF Python 3.11.3 64-bit 5/14/2023

External.css

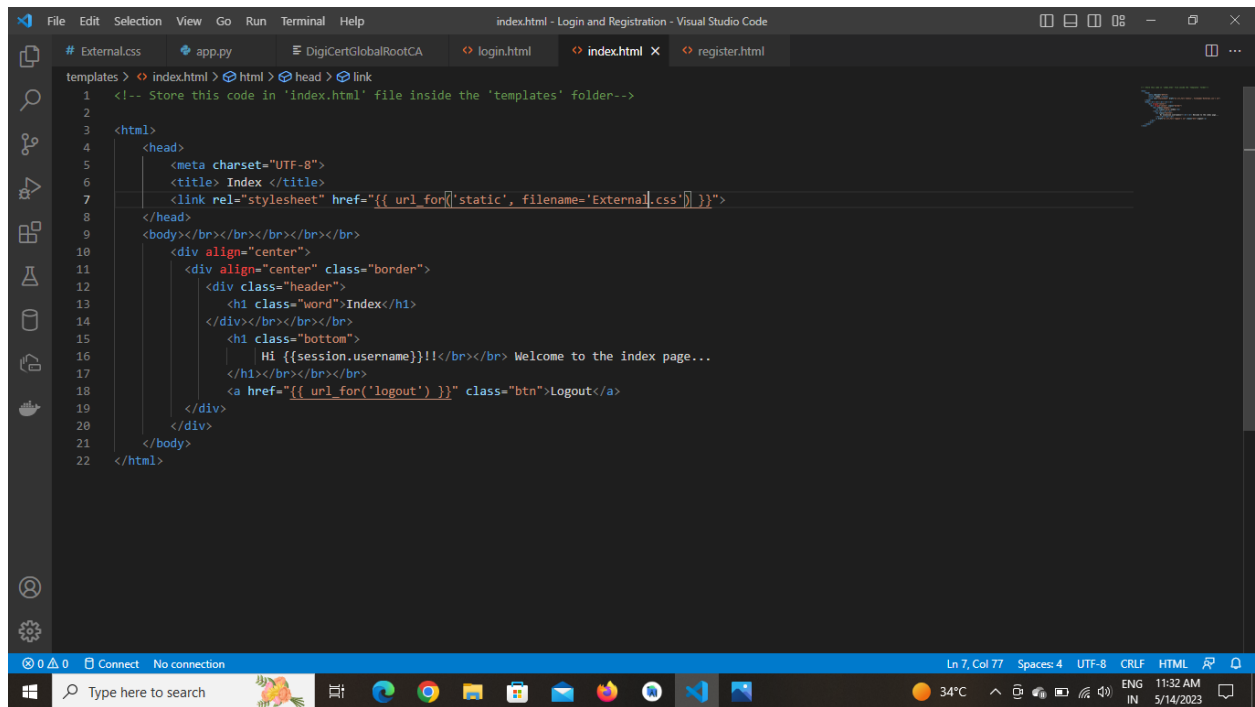


The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left displays the project structure, including the 'External.css' file. The main editor area shows the content of 'External.css', which contains CSS rules for a header, a border, a button, and a text box. The status bar at the bottom indicates the current line and column (Ln 28, Col 1) and the file encoding (UTF-8).

```
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 }
```



Index.html

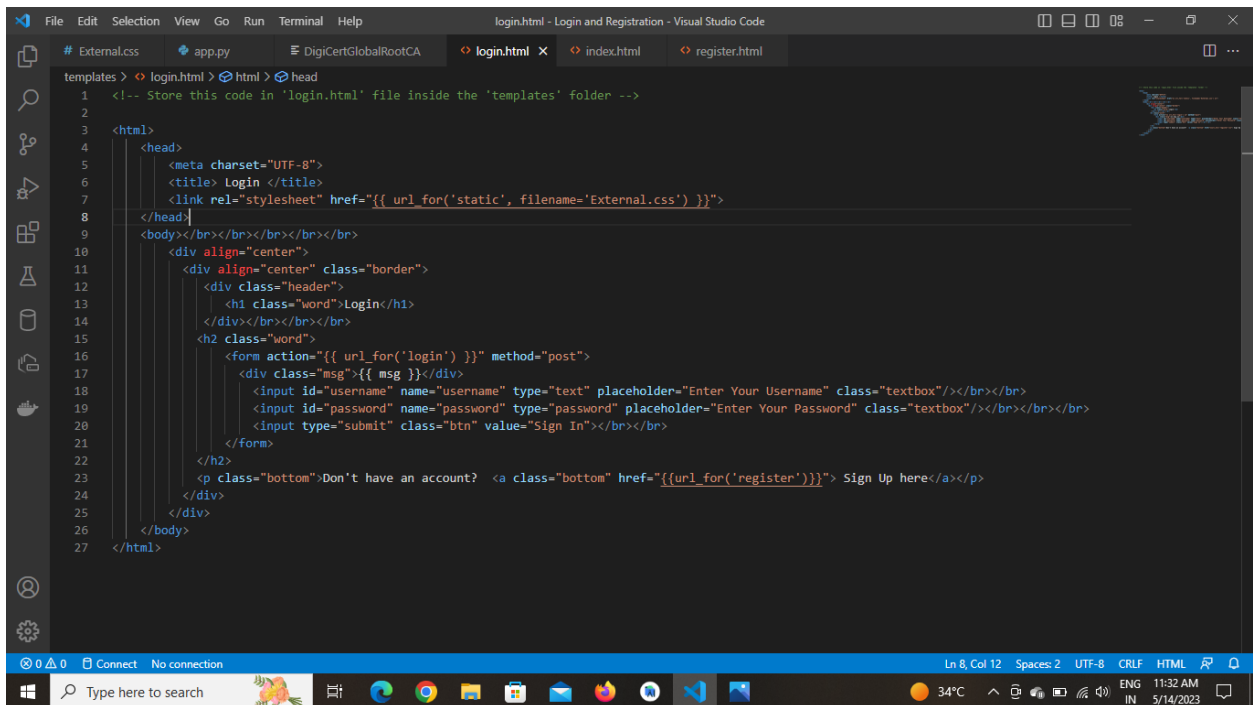


```
File Edit Selection View Go Run Terminal Help
index.html - Login and Registration - Visual Studio Code

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

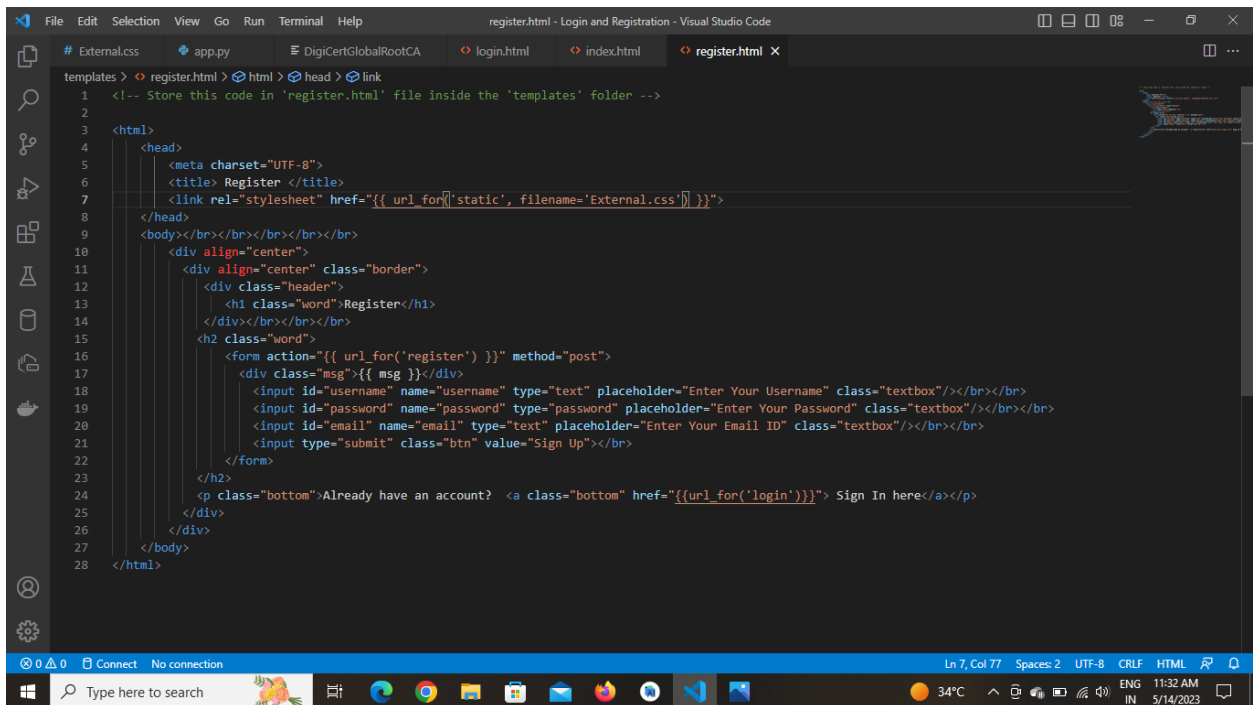
templates > index.html > html > head > link
1 <!-- Store this code in 'index.html' file inside the 'templates' folder-->
2
3 <html>
4 <head>
5 <meta charset="UTF-8">
6 <title> Index </title>
7 <link rel="stylesheet" href="{{ url_for('static', filename='External.css')}}">
8 </head>
9 <body><br></br></br>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

Login.html



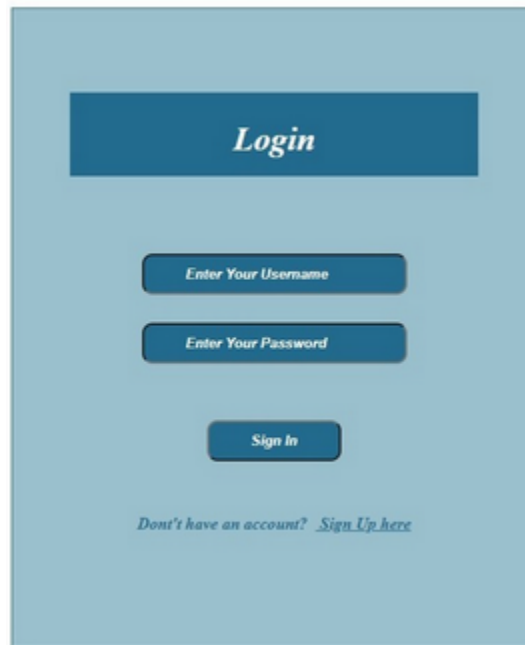
```
File Edit Selection View Go Run Terminal Help login.html - Login and Registration - Visual Studio Code
# External.css app.py DigiCertGlobalRootCA login.html x index.html register.html
templates > login.html > html > head
1 <!-- Store this code in 'login.html' file inside the 'templates' folder -->
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></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></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:



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 input fields, each with a dark blue border and a light blue background. The first field is labeled "Enter Your Username", the second "Enter Your Password", and the third "Sign In". Below the input fields, there is a line of text: "Don't have an account? [Sign Up here](#)".

Login

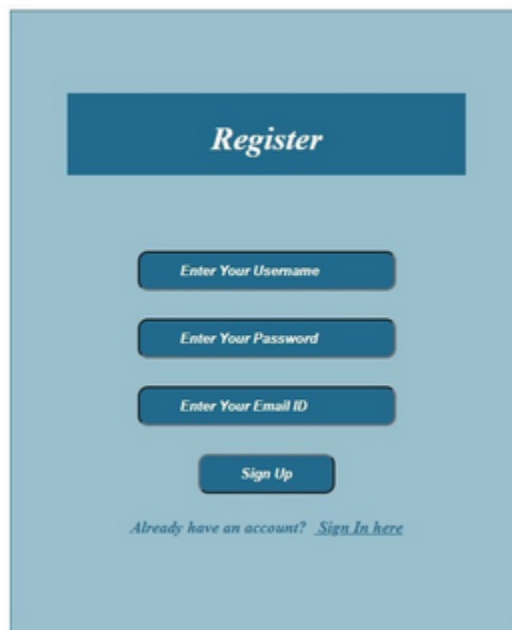
Enter Your Username

Enter Your Password

Sign In

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 input fields, each with a dark blue border and a light blue background. The first field is labeled "Enter Your Username", the second "Enter Your Password", and the third "Enter Your Email ID". Below the input fields, there is a "Sign Up" button and a line of text: "Already have an account? [Sign In here](#)".

Register

Enter Your Username

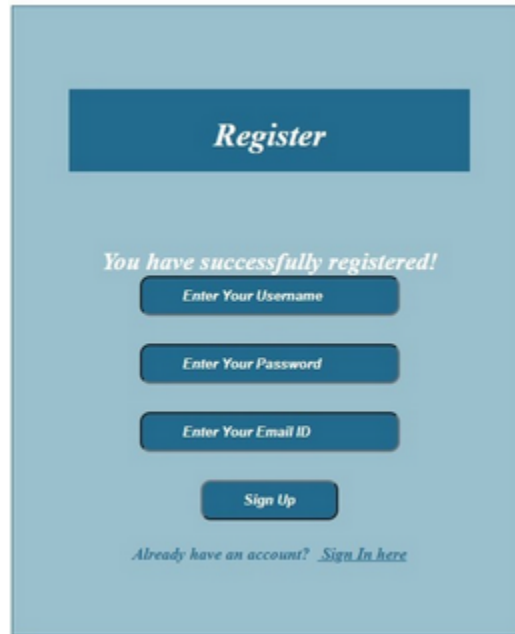
Enter Your Password

Enter Your Email ID

Sign Up

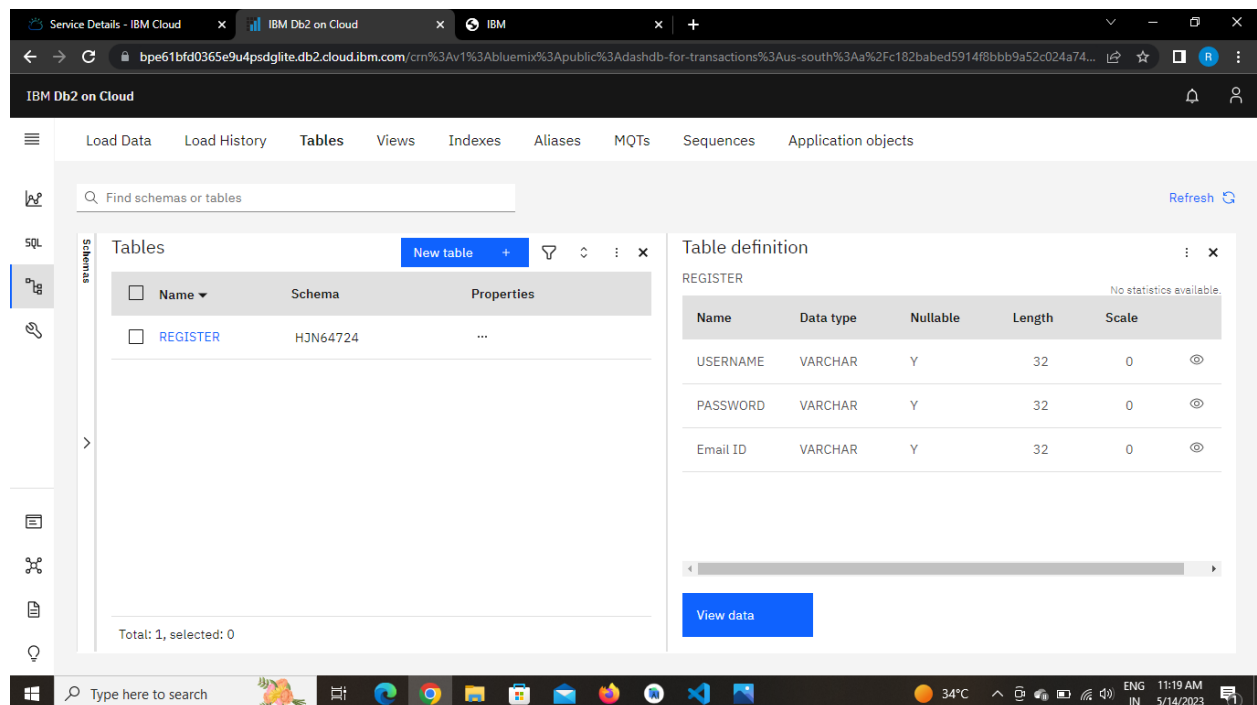
Already have an account? [Sign In here](#)

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. Underneath, there are three dark blue buttons stacked vertically, labeled "Enter Your Username", "Enter Your Password", and "Enter Your Email ID". Below these is another dark blue button labeled "Sign Up". At the bottom, the text "Already have an account? [Sign In here](#)" is shown.

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. A search bar "Find schemas or tables" is present. Below the search bar, a table lists the available tables:

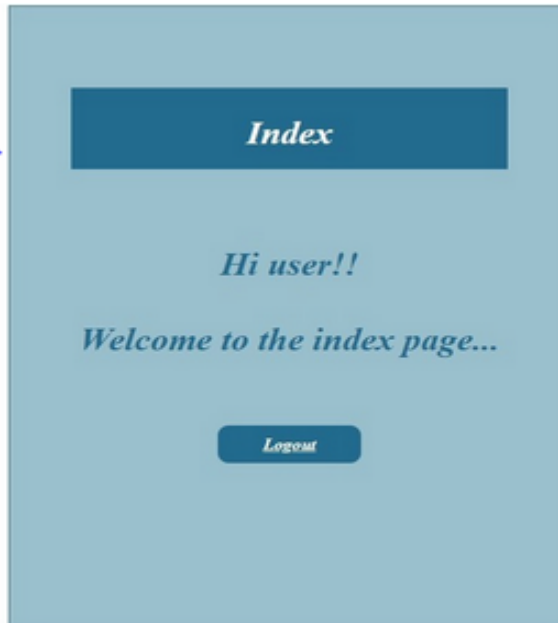
Name	Schema	Properties
REGISTER	HJN64724	...

Below the table, it says "Total: 1, selected: 0". To the right of the table list is a "Table definition" panel for the "REGISTER" table. It shows the following columns:

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

At the bottom of the "Table definition" panel is a "View data" button. The bottom of the screen shows a Windows taskbar with various application icons and system information like "34°C" and "11:19 AM 5/14/2023".

If login successful:



Index page is displayed:

