

# **ASSIGNMENT-2**

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**VV COLLEGE OF ENGINEERING**

**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.

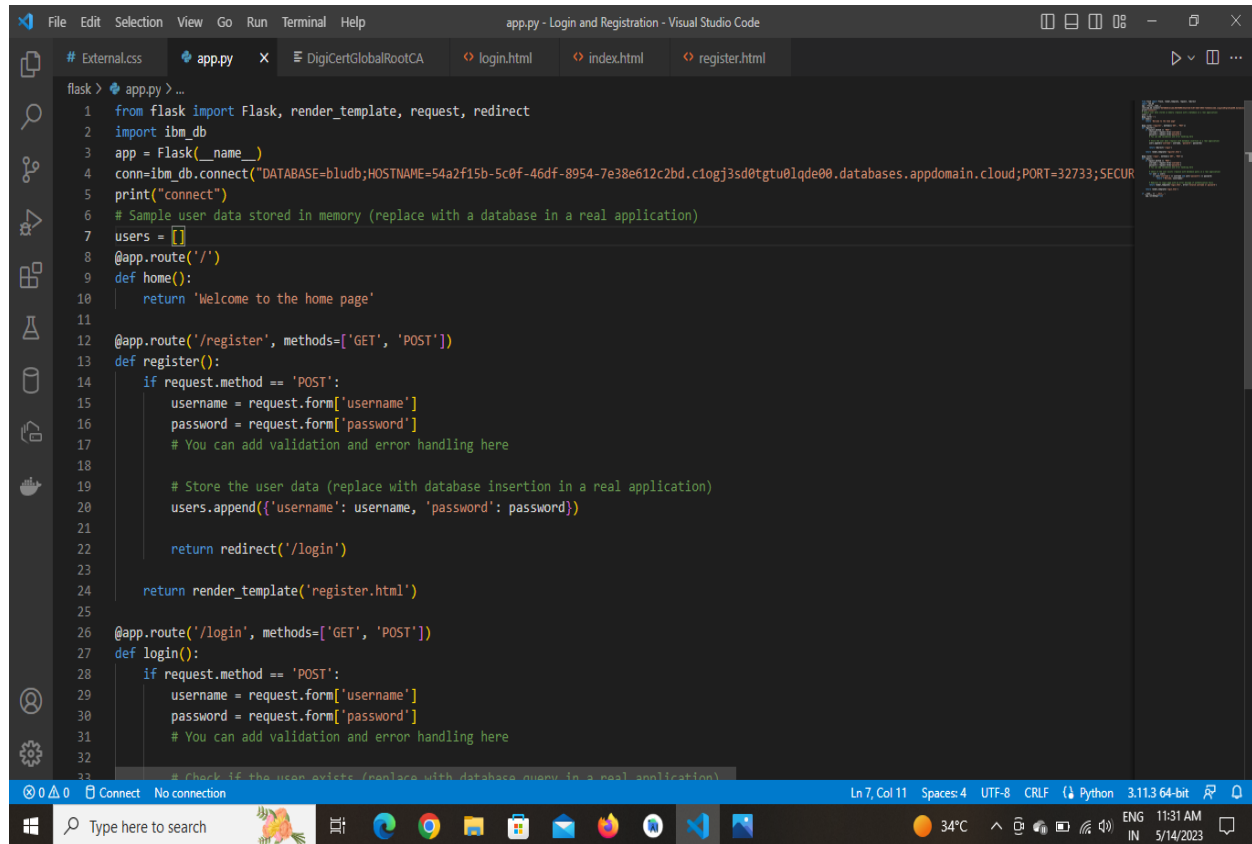
### 1. Login and Register html page

**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:



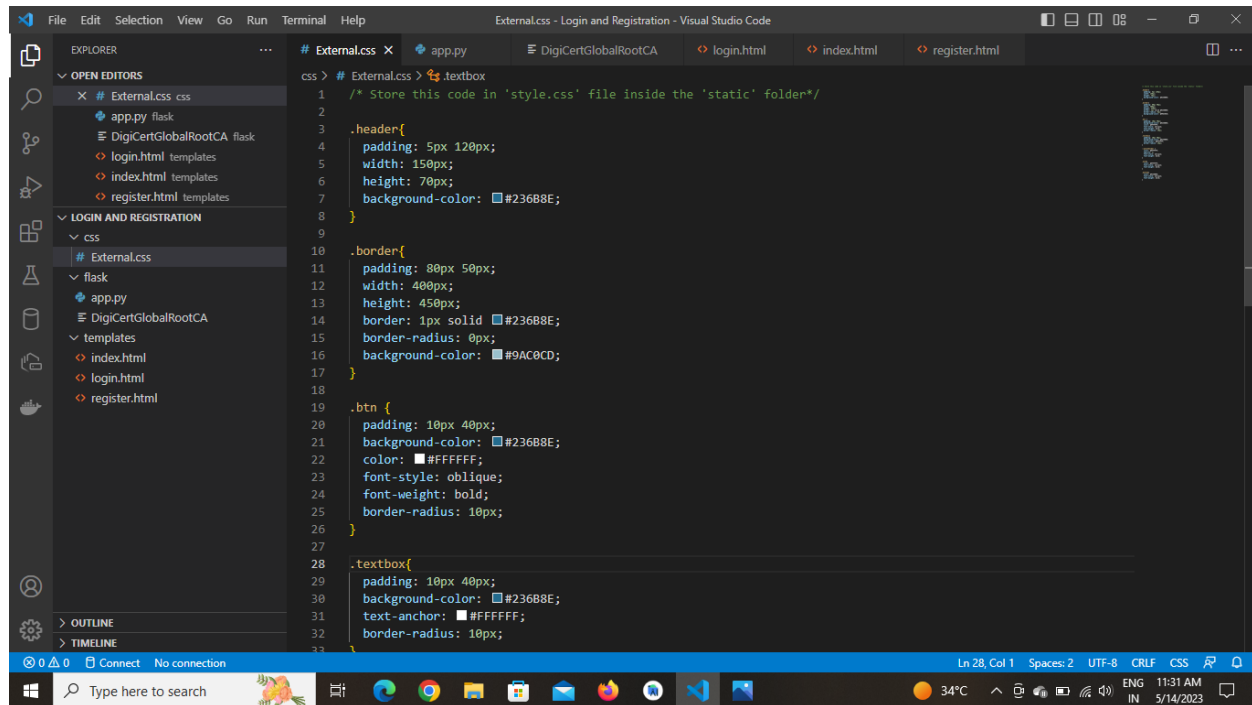
```
flask > app.py > ...
1 from flask import Flask, render_template, request, redirect
2 import ibm_db
3 app = Flask(__name__)
4 conn=ibm_db.connect("DATABASE=b1udb;HOSTNAME=54a2f15b-5c0f-46df-8954-7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECUR
5 print("connect")
6 # Sample 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 screenshot shows the Visual Studio Code editor with a Python Flask application. The file explorer on the left shows the project structure: `External.css`, `app.py`, `DigiCertGlobalRootCA`, `login.html`, `index.html`, and `register.html`. The main editor displays the `app.py` file, which contains the following code:

```
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
```

The status bar at the bottom indicates the current line and column (Ln 7, Col 11), the number of spaces (Spaces: 4), the encoding (UTF-8), the line ending (CRLF), the Python version (Python 3.11.3 64-bit), and the system temperature (34°C). The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons including Edge, Chrome, File Explorer, and others. The system clock shows 11:31 AM on 5/14/2023.

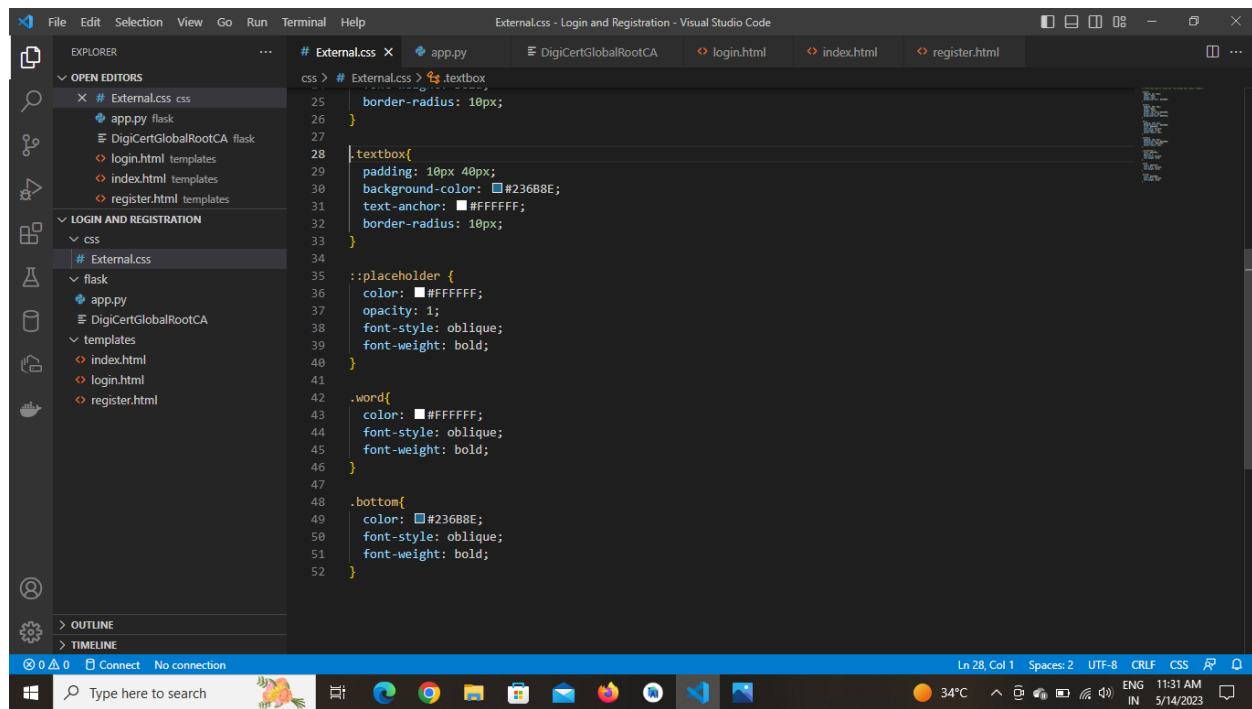
# External.css



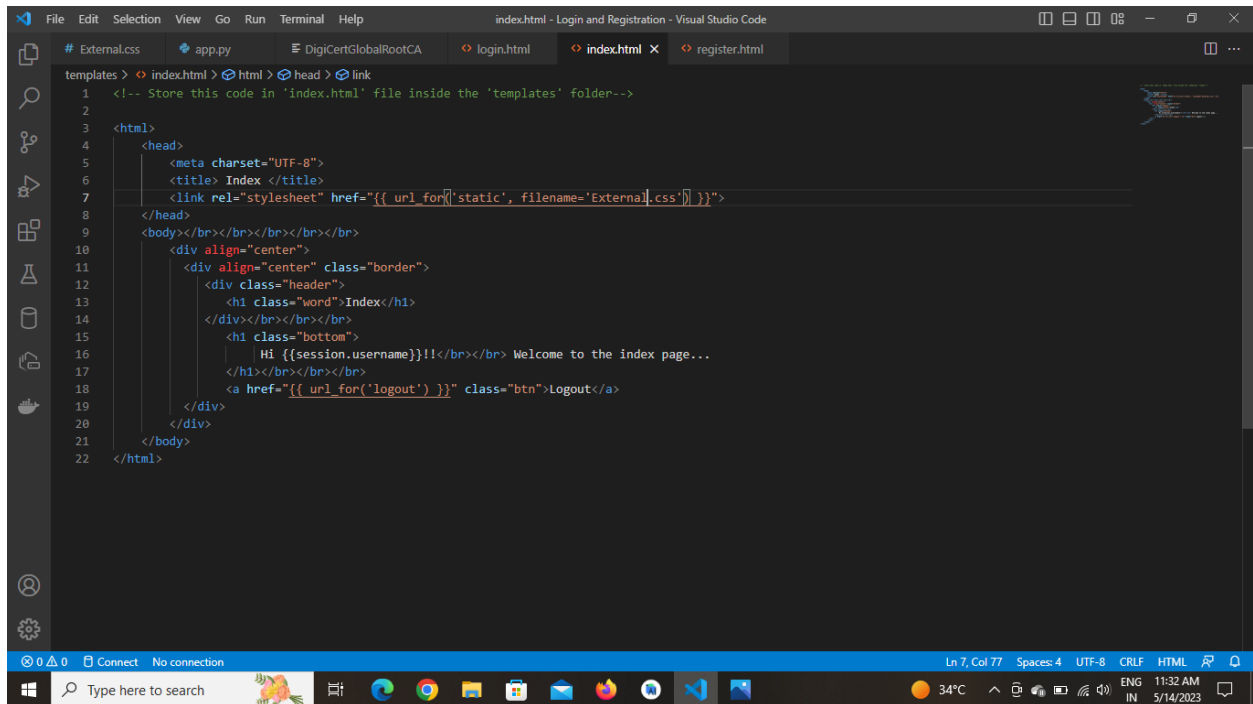
The screenshot shows the Visual Studio Code interface with the 'External.css' file open in the Editor pane. The Explorer pane on the left shows the project structure, including the 'css' folder containing 'External.css'. The Editor pane displays the following CSS code:

```
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: #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: #9AC8CD;
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-align: center;
32   border-radius: 10px;
33 }
```

The status bar at the bottom indicates the current line and column (Ln 28, Col 1), the number of spaces (Spaces: 2), the encoding (UTF-8), the line ending (CRLF), and the language (CSS). The system tray at the bottom right shows the temperature (34°C), the time (11:31 AM), and the date (5/14/2023).

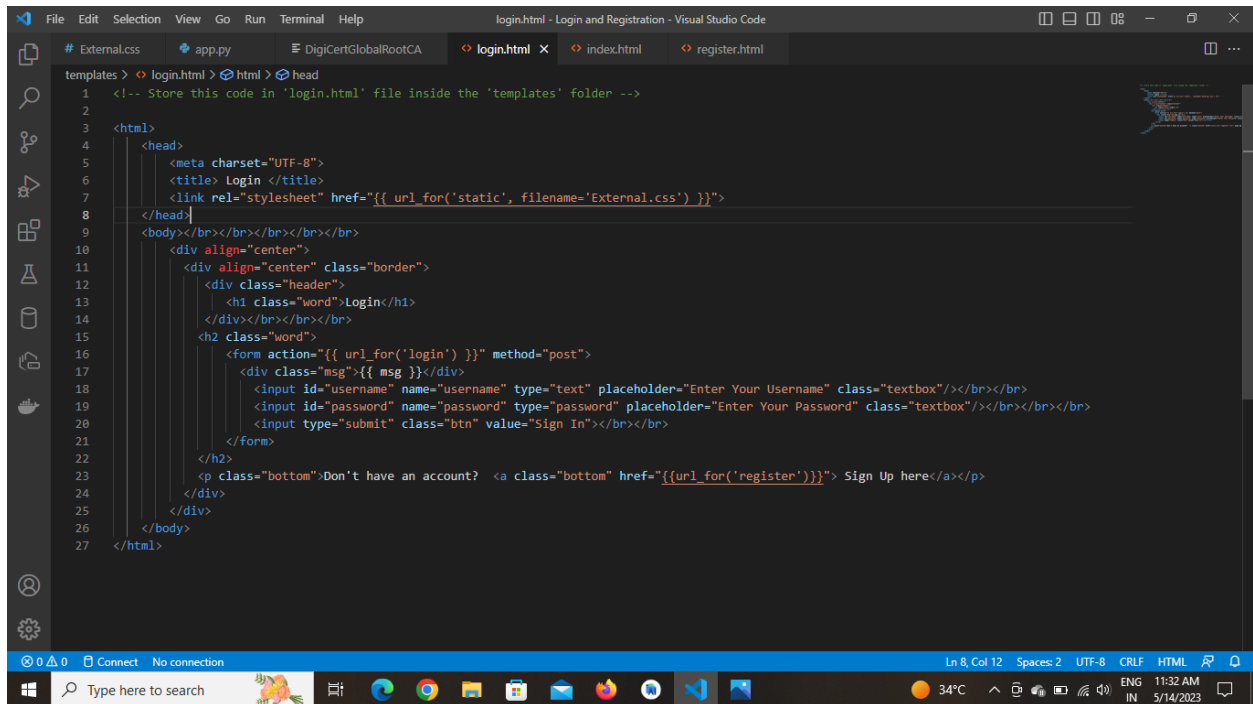


# Index.html



```
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                     <h1 {{session.username}}!!</br></br> Welcome to the index page...
17                 </h1><br></br></br>
18                 <a href="{{ url_for('logout') }}" class="btn">Logout</a>
19             </div>
20         </div>
21     </body>
22 </html>
```

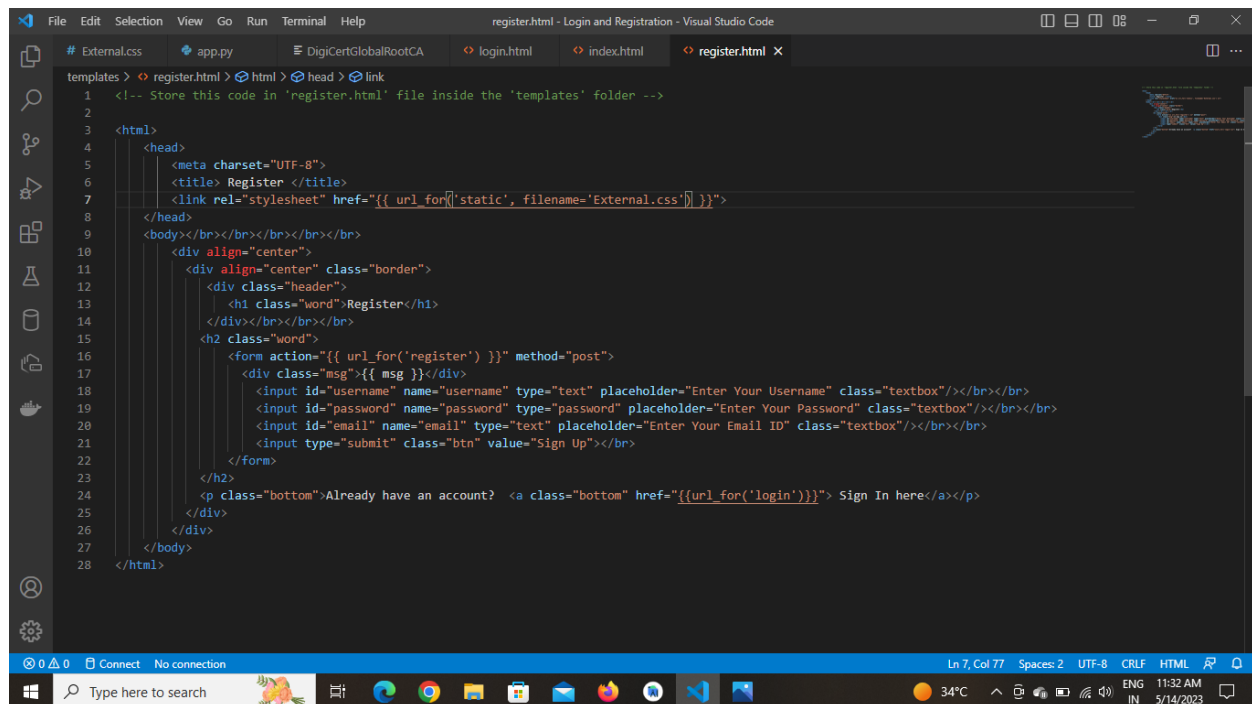
# Login.html



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

Login page:



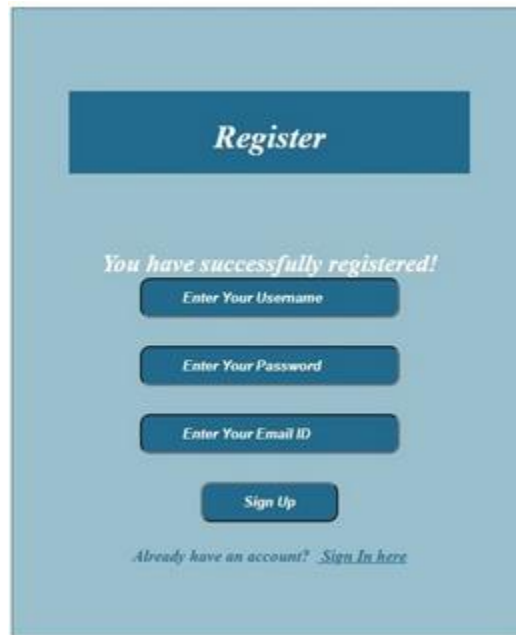
The login page features a light blue background. At the top, a dark blue rectangular box contains the word "Login" in a white, italicized serif font. Below this, there are three dark blue rounded rectangular input fields. The first field is labeled "Enter Your Username" in a small, italicized white font.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

Registration page:



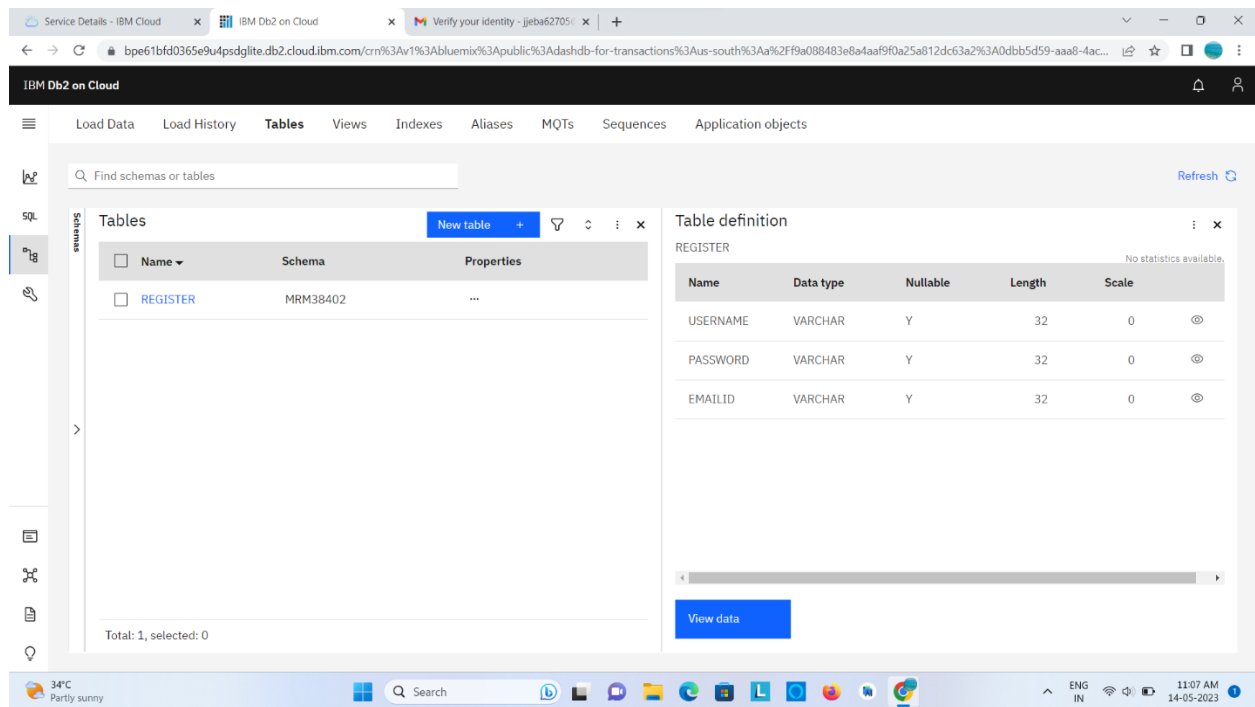
The registration page features a light blue background. At the top, a dark blue rectangular box contains the word "Register" in a white, italicized serif font. Below this, there are three dark blue rounded rectangular input fields. The first field is labeled "Enter Your Username" in a small, italicized white font. The second field is labeled "Enter Your Password" in the same font. The third field is labeled "Enter Your Email ID" in the same font. Below these fields is a dark blue rounded rectangular button labeled "Sign Up" in a small, italicized white font. At the bottom of the form, there is a line of text in a small, italicized dark blue font that 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 bold, italicized font. Underneath this text are three dark blue buttons stacked vertically, labeled "Enter Your Username", "Enter Your Password", and "Enter Your Email ID". At the bottom of these buttons is another dark blue button labeled "Sign Up". At the very bottom of the screen, the text "Already have an account? [Sign In here](#)" is displayed in a smaller, italicized font.

Database Table:

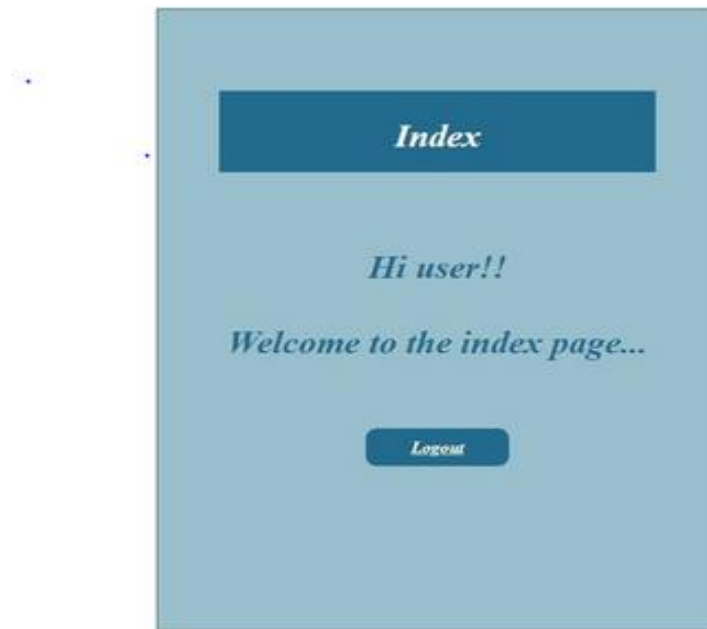


The screenshot shows the IBM Db2 on Cloud web interface. The top navigation bar includes "Load Data", "Load History", "Tables", "Views", "Indexes", "Aliases", "MQTs", "Sequences", and "Application objects". The "Tables" tab is selected. On the left, a sidebar shows "Schemas" with a search bar and a "Refresh" button. The main area displays a table of database tables. The table has columns for "Name", "Schema", and "Properties". One table, "REGISTER", is listed under the "MRM38402" schema. To the right of the table list, the "Table definition" for the "REGISTER" table is shown. It includes a table with columns: "Name", "Data type", "Nullable", "Length", and "Scale". The table definition shows three columns: "USERNAME" (VARCHAR, Y, 32, 0), "PASSWORD" (VARCHAR, Y, 32, 0), and "EMAILID" (VARCHAR, Y, 32, 0). A "View data" button is located at the bottom of the table definition section.

Name	Schema	Properties
REGISTER	MRM38402	...

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

If login successful:



Index page is displayed:

