**Assignment -2**

IBM CLOUD DB2

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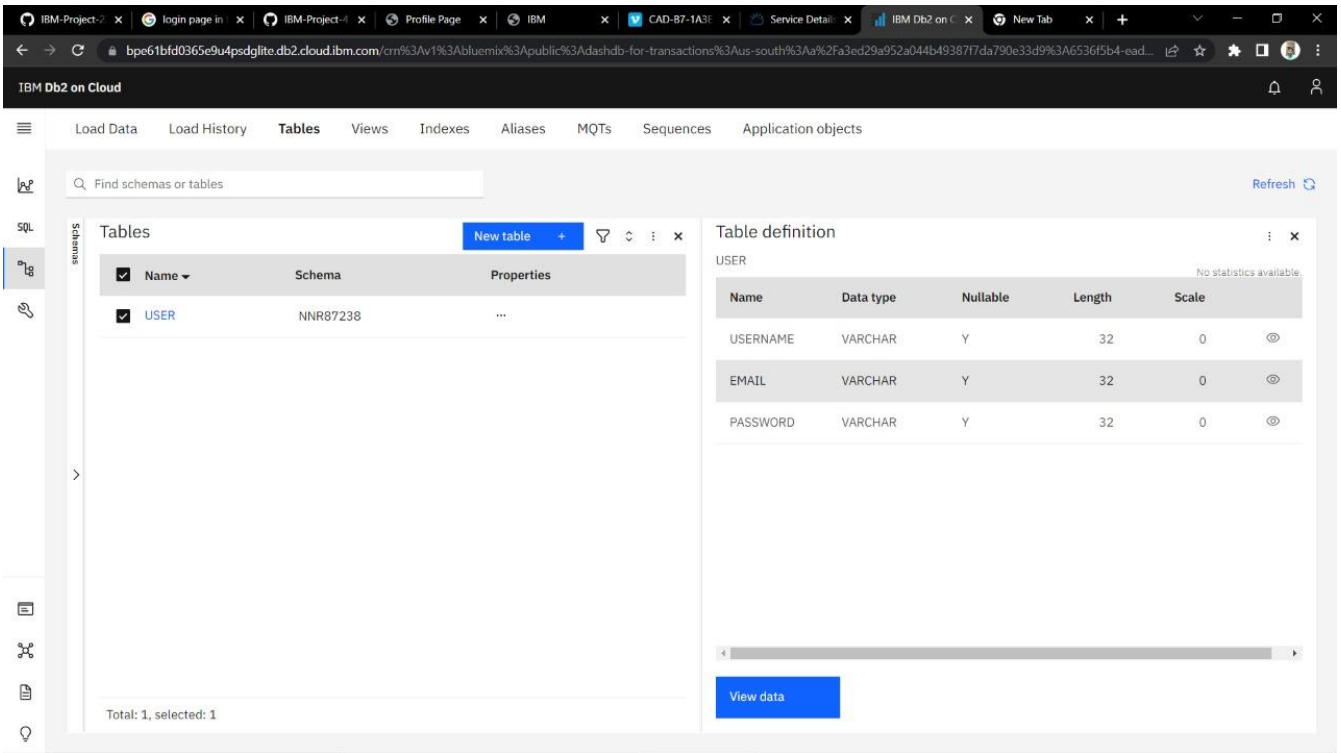
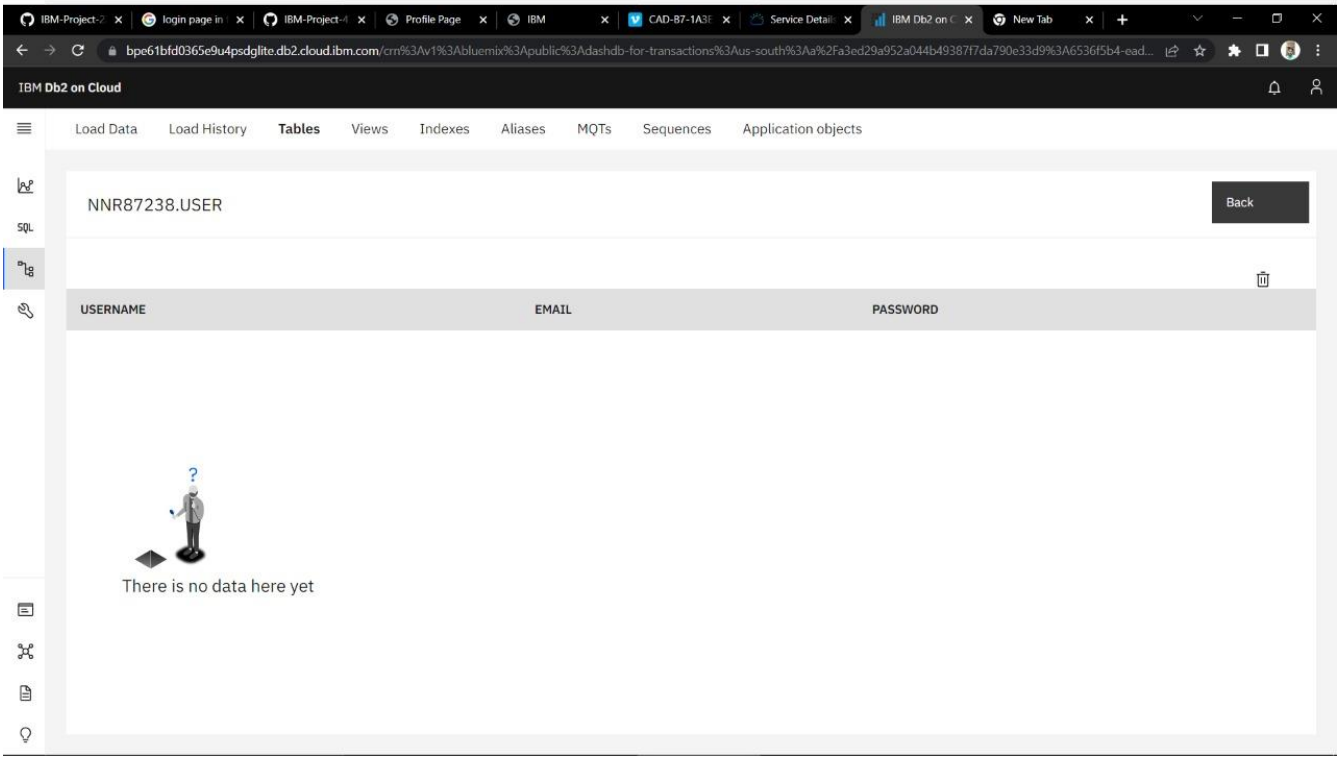
|---|---|
| Assignment Date | 29 September 2022 |
| Student Name | Lokesh |
| Student Roll Number | 311019205026 |
| Maximum Marks | 2 Marks |

**Questions:**

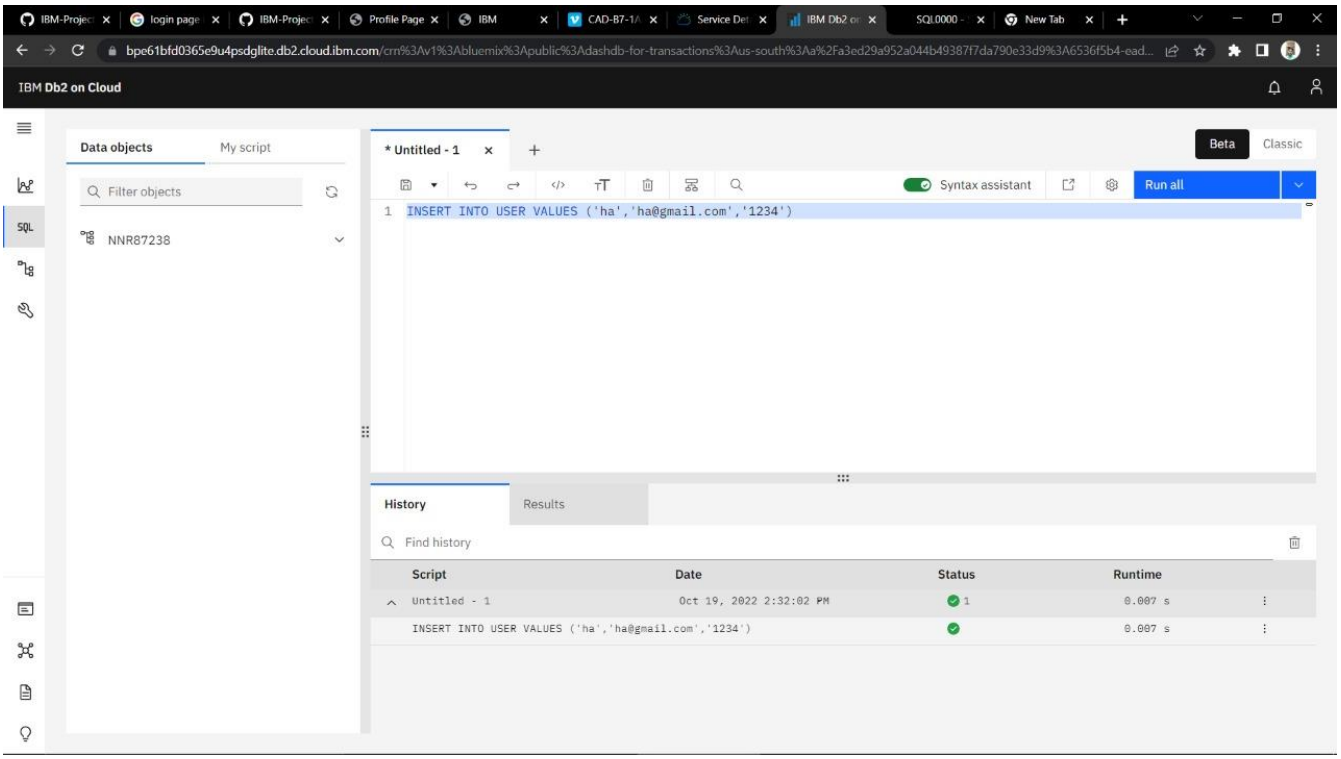
1. Create User table with user with email, username, roll number, password.

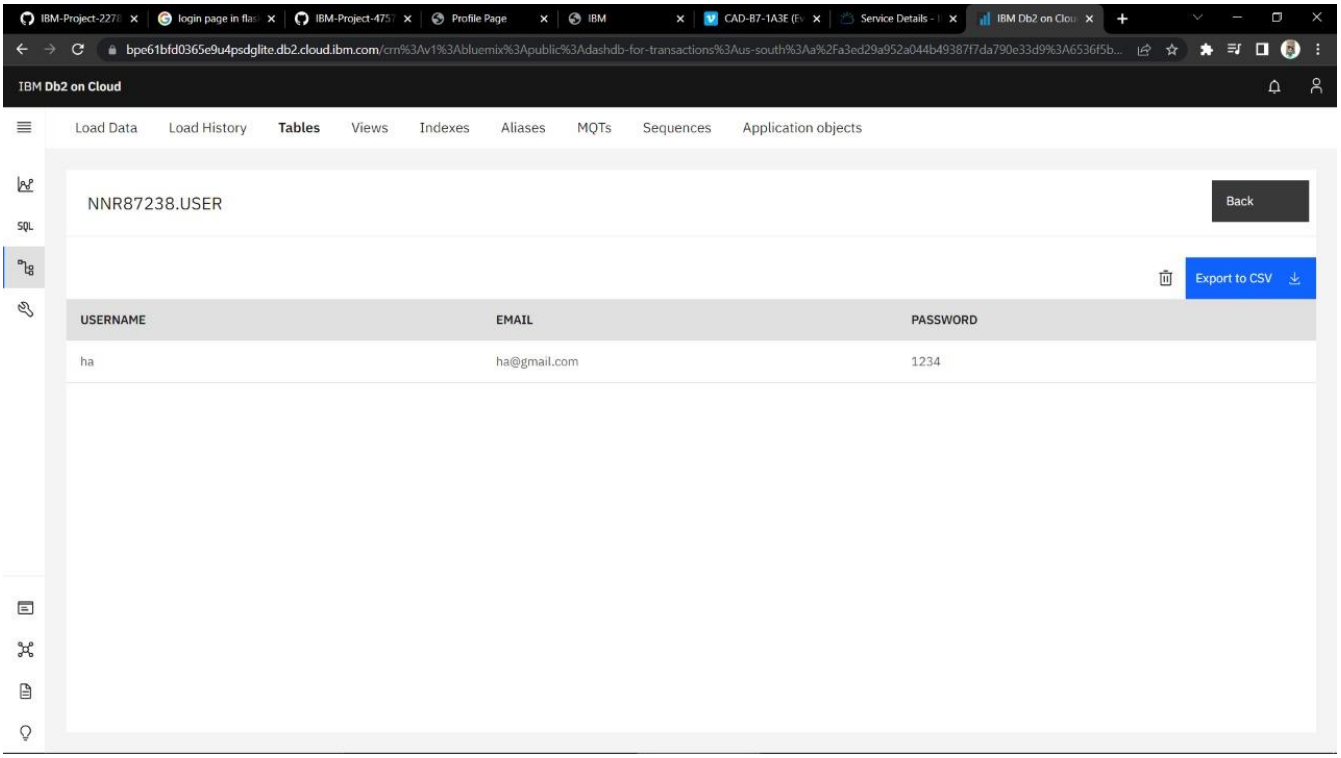


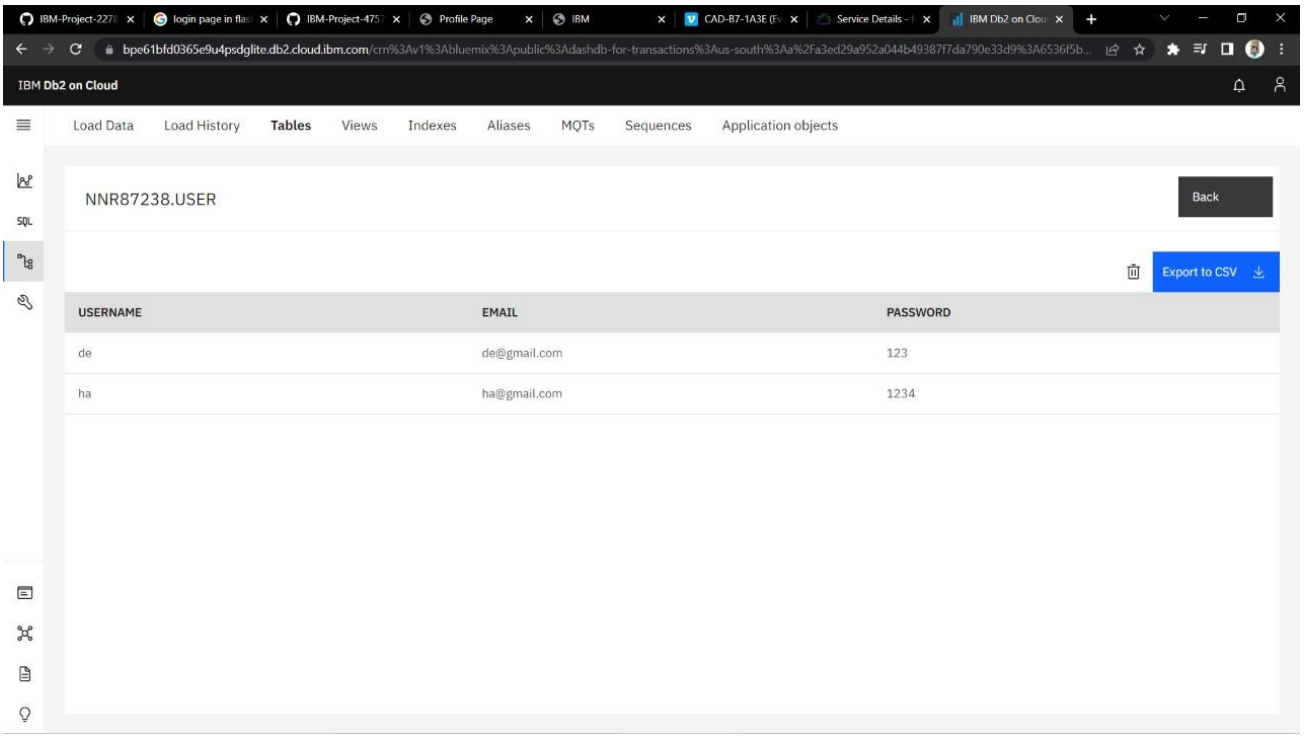
2. Perform UPDATE,DELETE Queries with user table.

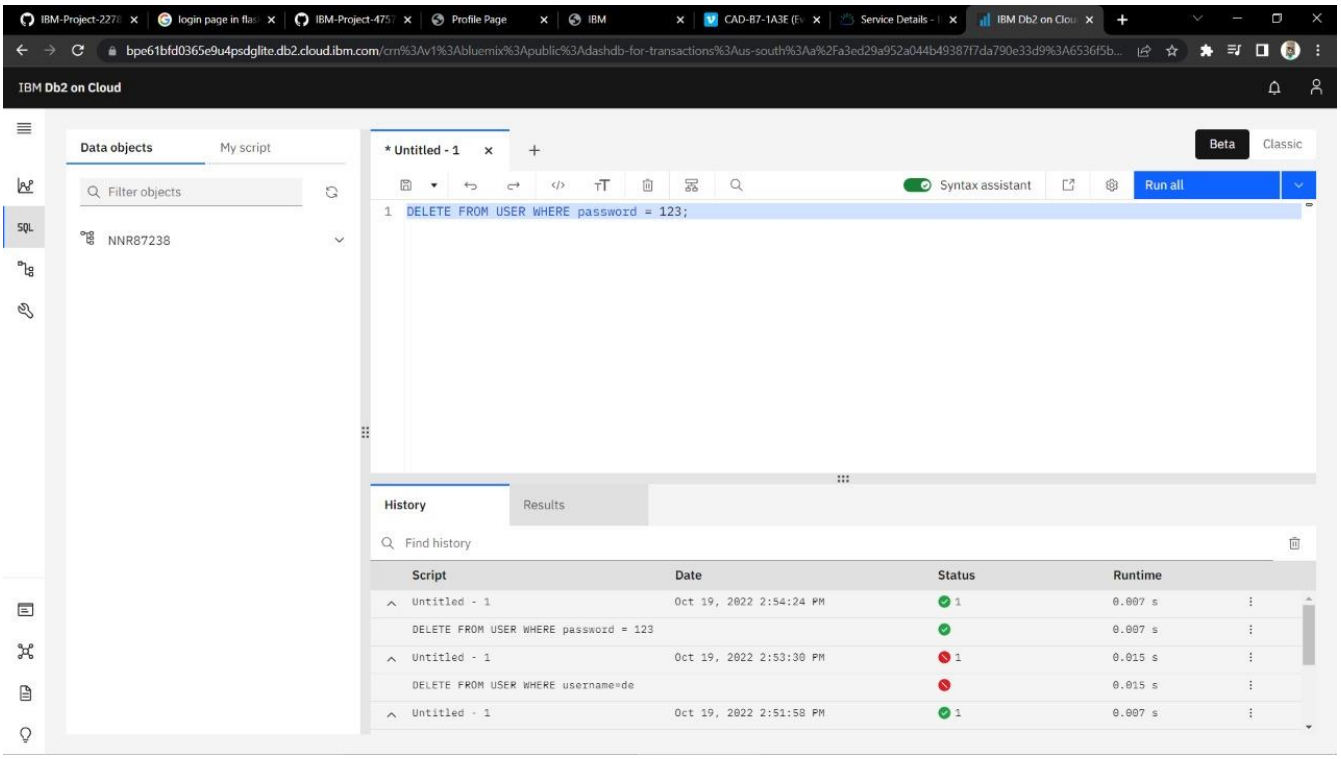
**UPDATE TABLE:-**

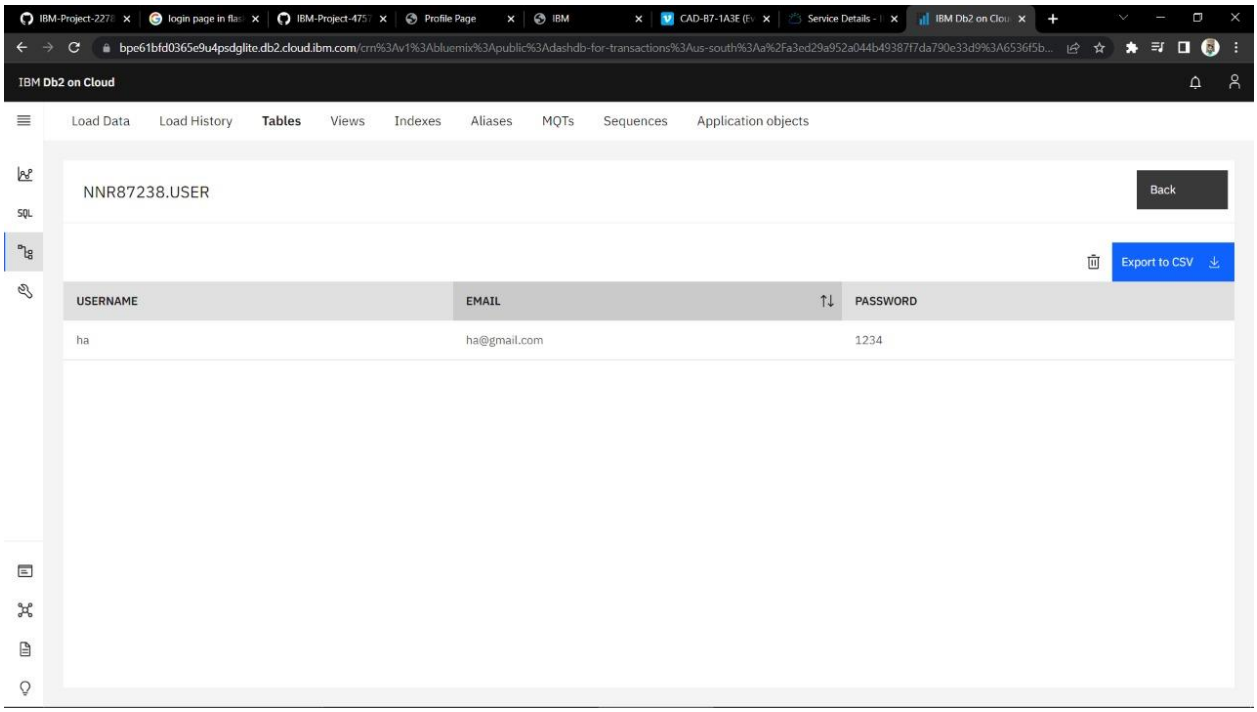


**DELETE TABLE:-**






3.Connect python code to db2.

**NOTE:- Question 4 contains Question 3 answer**

4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

**3,4ans**

**app.js**

```
const sign_in_btn = document.querySelector("#sign-in-btn");
const sign_up_btn = document.querySelector("#sign-up-btn");
const container = document.querySelector(".container");

sign_up_btn.addEventListener("click", () =>
{
 container.classList.add("sign-up-mode");
}
);

sign_in_btn.addEventListener("click", () =>
 {
 container.classList.remove("sign-up-mode");
});
```

**app.py**

```
import ibm_db
import re

app = Flask(_name_)
app.secret_key = 'a'

conn = ibm_db.connect(
"DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;USERNAME=nnr87238;PASSWORD=PUml
qXYukgkiGmGq;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.crt;", "", "")
@app.route("/", methods=['GET', 'POST'])
```

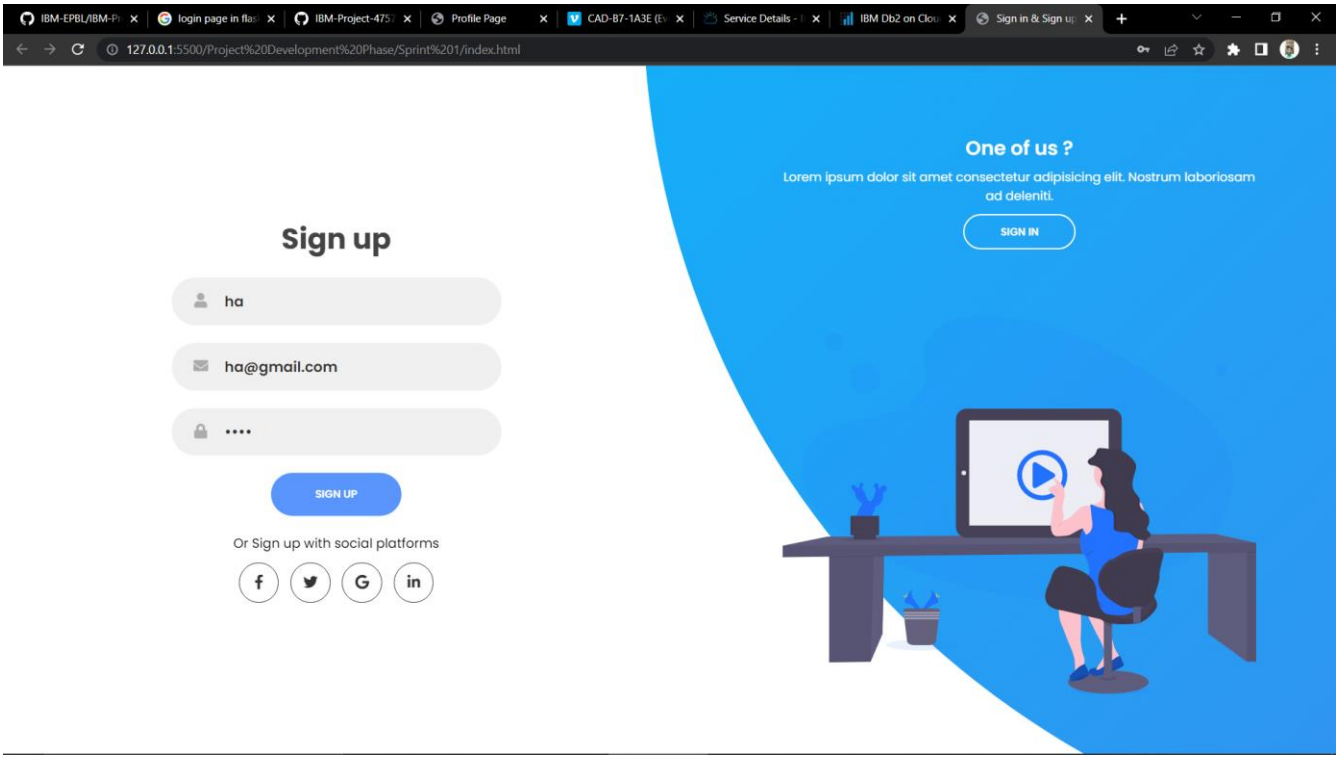
```
def register():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'name must contain only characters and numbers !'
        else:
            insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt, 1, username)
            ibm_db.bind_param(prep_stmt, 2, email)
            ibm_db.bind_param(prep_stmt, 3, password)
            ibm_db.execute(prep_stmt)
            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('register.html', msg=msg)


@app.route('/login', methods=['GET', 'POST'])
def login():
    global userid
    msg = ''

    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "SELECT * FROM users WHERE username =? AND password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)

        if account:
            session['loggedin'] = True
            session['id'] = account['USERNAME']
            userid = account['USERNAME']
            session['username'] = account['USERNAME']

            msg = 'Logged in successfully !'
            return render_template('dashboard.html', msg=msg)
        else:
            msg = 'Incorrect username / password !'
            return render_template('login.html', msg=msg)


if _name_ == '_main_':
    app.run(host='0.0.0.0')
```

**index.html**

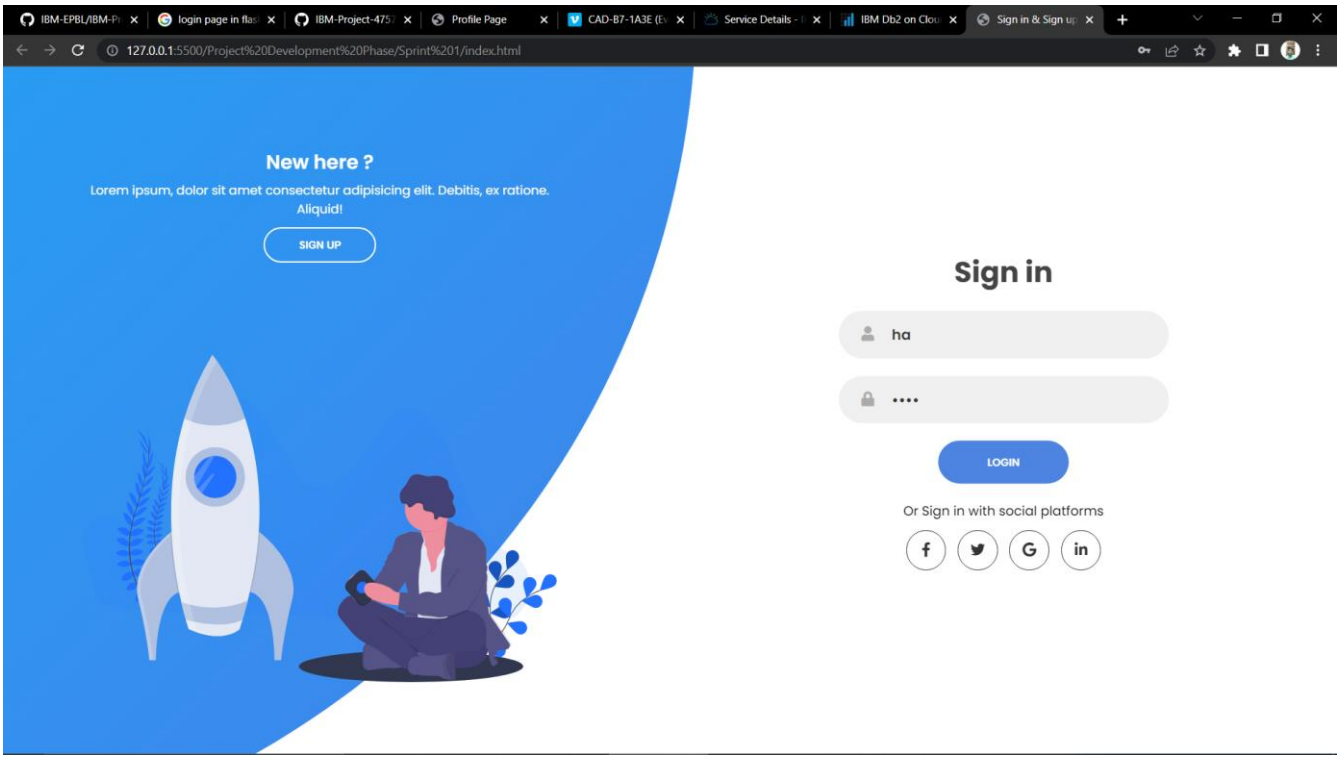
```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <script
   src="https://kit.fontawesome.com/64d58efce2.js"
   crossorigin="anonymous"
  ></script>
  <link rel="stylesheet" href="style.css" />
  <title>Sign in & Sign up Form</title>
 </head>
 <body>
  <div class="container">
   <div class="forms-container">
    <div class="signin-signup">
     <form action="#" class="sign-in-form">
      <h2 class="title">Sign in</h2>
      <div class="input-field">
       <i class="fas fa-user"></i>
       <input type="text" placeholder="Username" />
      </div>
      <div class="input-field">
       <i class="fas fa-lock"></i>
       <input type="password" placeholder="Password" />
      </div>
      <input type="submit" value="Login" class="btn solid" />
      <p class="social-text">Or Sign in with social platforms</p>
      <div class="social-media">
       <a href="#" class="social-icon">
        <i class="fab fa-facebook-f"></i>
       </a>
       <a href="#" class="social-icon">
        <i class="fab fa-twitter"></i>
       </a>
       <a href="#" class="social-icon">
        <i class="fab fa-google"></i>
       </a>
       <a href="#" class="social-icon">
        <i class="fab fa-linkedin-in"></i>
       </a>
      </div>
     </form>
     <form action="#" class="sign-up-form">
      <h2 class="title">Sign up</h2>
      <div class="input-field">
       <i class="fas fa-user"></i>
       <input type="text" placeholder="Username" />
      </div>
      <div class="input-field">
       <i class="fas fa-envelope"></i>
       <input type="email" placeholder="Email" />
      </div>
      <div class="input-field">
       <i class="fas fa-lock"></i>
       <input type="password" placeholder="Password" />
      </div>
      <input type="submit" class="btn" value="Sign up" />
      <p class="social-text">Or Sign up with social platforms</p>
```

```
        <div class="social-media">
          <a href="#" class="social-icon">
            <i class="fab fa-facebook-f"></i>
          </a>
          <a href="#" class="social-icon">
            <i class="fab fa-twitter"></i>
          </a>
          <a href="#" class="social-icon">
            <i class="fab fa-google"></i>
          </a>
          <a href="#" class="social-icon">
            <i class="fab fa-linkedin-in"></i>
          </a>
        </div>
      </form>
    </div>
  </div>

  <div class="panels-container">
    <div class="panel left-panel">
      <div class="content">
        <h3>New here ?</h3>
        <p>
          Lorem ipsum, dolor sit amet consectetur adipisicing elit. Debitis,
          ex ratione. Aliquid!
        </p>
        <button class="btn transparent" id="sign-up-btn">
          Sign up
        </button>
      </div>
      <img src="img/log.svg" class="image" alt="" />
    </div>
    <div class="panel right-panel">
      <div class="content">
        <h3>One of us ?</h3>
        <p>
          Lorem ipsum dolor sit amet consectetur adipisicing elit. Nostrum
          laboriosam ad deleniti.
        </p>
        <button class="btn transparent" id="sign-in-btn">
          Sign in
        </button>
      </div>
      <img src="img/register.svg" class="image" alt="" />
    </div>
  </div>
</div>

<script src="app.js"></script>
</body>
</html>
```

Register page


127.0.0.1:5500/Project%20Development%20Phase/Sprint%201/index.html
Sign up
ha
ha@gmail.com
SIGN UP
Or Sign up with social platforms
One of us ?
Lorem ipsum dolor sit amet consectetur adipisicing elit. Nostrum laboriosam ad deleniti.
SIGN IN

Sign in page


127.0.0.1:5500/Project%20Development%20Phase/Sprint%201/index.html
New here ?
Lorem ipsum, dolor sit amet consectetur adipisicing elit. Debitis, ex ratione. Aliquid!
SIGN UP
Sign in
ha
LOGIN
Or Sign in with social platforms