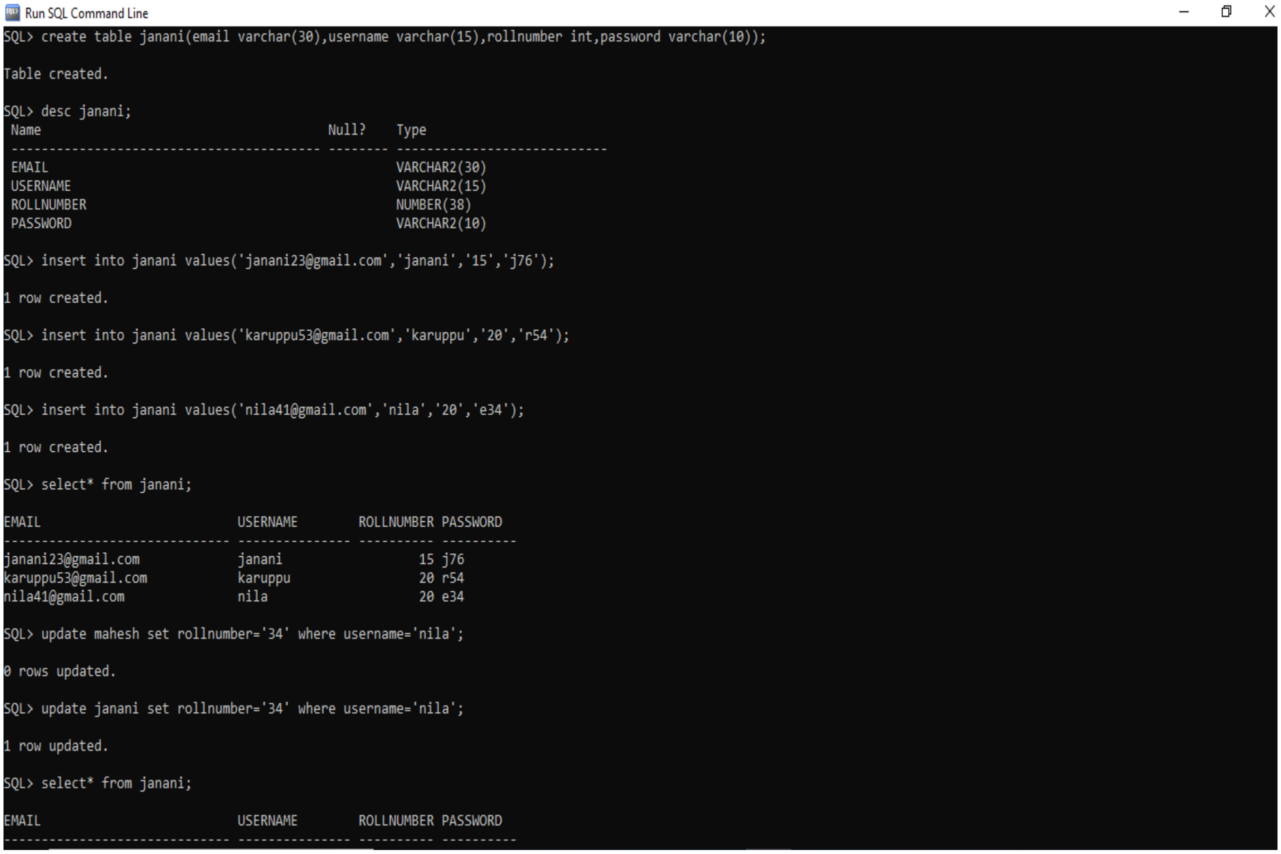
ASSIGNMENT-3

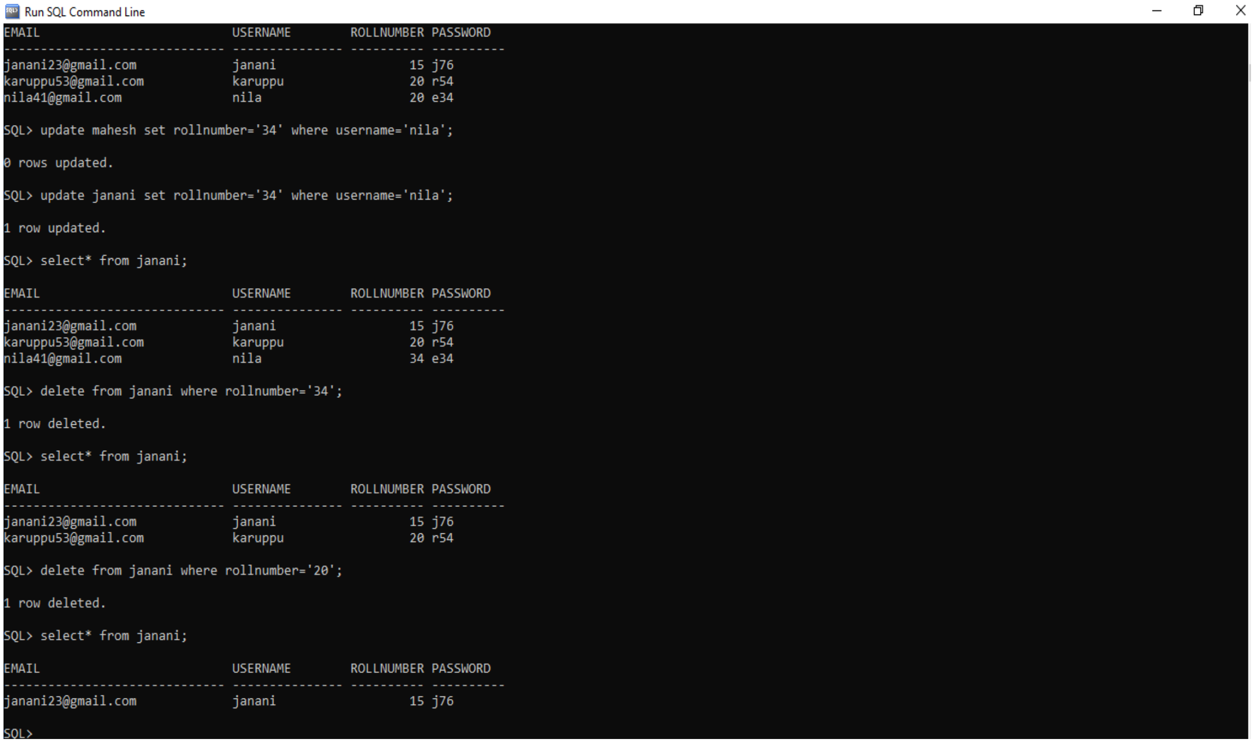
Date	11 October 2022
Team ID	PNT2022TMID49558
Project Name	Project-plasma donor Application
Team Member Name	Janani S

1. **Create User table with user with email, username, password.**



```
SQL> create table janani(email varchar(30),username varchar(15),rollnumber int,password varchar(10));

Table created.

SQL> desc janani;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EMAIL                                              VARCHAR2(30)
 USERNAME                                           VARCHAR2(15)
 ROLLNUMBER                                         NUMBER(38)
 PASSWORD                                           VARCHAR2(10)

SQL> insert into janani values('janani23@gmail.com','janani','15','j76');

1 row created.

SQL> insert into janani values('karuppu53@gmail.com','karuppu','20','r54');

1 row created.

SQL> insert into janani values('nila41@gmail.com','nila','20','e34');

1 row created.

SQL> select* from janani;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
janani23@gmail.com             janani                  15 j76
karuppu53@gmail.com            karuppu                 20 r54
nila41@gmail.com               nila                    20 e34

SQL> update mahesh set rollnumber='34' where username='nila';

0 rows updated.

SQL> update janani set rollnumber='34' where username='nila';

1 row updated.

SQL> select* from janani;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
```

2. Perform UPDATE, DELETE Queries with user table



```
EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
janani23@gmail.com             janani                  15 j76
karuppu53@gmail.com            karuppu                 20 r54
nila41@gmail.com               nila                    20 e34

SQL> update mahesh set rollnumber='34' where username='nila';

0 rows updated.

SQL> update janani set rollnumber='34' where username='nila';

1 row updated.

SQL> select* from janani;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
janani23@gmail.com             janani                  15 j76
karuppu53@gmail.com            karuppu                 20 r54
nila41@gmail.com               nila                    34 e34

SQL> delete from janani where rollnumber='34';

1 row deleted.

SQL> select* from janani;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
janani23@gmail.com             janani                  15 j76
karuppu53@gmail.com            karuppu                 20 r54

SQL> delete from janani where rollnumber='20';

1 row deleted.

SQL> select* from janani;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
janani23@gmail.com             janani                  15 j76

SQL>
```

3. Connect python code to db2

```
Conn =ibm_db.connect(“DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=nrf07401;PWD=kaHPqpcYgKzutO4L”,”,”)
```

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 the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
app.secret_key = 'a'
Conn =ibm_db.connect(“DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=nrf07401;PWD=kaHPqpcYgKzutO4L”,”,”)
@app.route('/')
def home():
    return render_template('register.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST'and 'username' in request.form and 'password' in request.form:
        username = request.form['username']
        password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM accounts WHERE username = ? AND password = ?')
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
            session['loggedin'] = True
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
            return render_template('index.html', msg = msg)
        else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)
```

```
@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))

@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
        sql = "SELECT * FROM accounts 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 = 'Username must contain only characters and numbers !'
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO accounts VALUES (?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, password)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.execute(stmt)
            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
```

```
                return render_template('register.html', msg = msg)
            if __name__ == '__main__':
                app.run(debug = True)
```

index.html

```
<html>
    <head>
        <meta charset="UTF-8">
        <title> Index </title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
          <div align="center" class="border">
             <div class="header">
                <h1 class="word">Index</h1>
             </div></br></br></br>
                <h1 class="bottom">
                     Hi {{session.username}}!!</br></br> Welcome to the index page...
                </h1></br></br></br>
                <a href="{{ url_for('logout') }}" class="btn">Logout</a>
          </div>
        </div>
    </body>
</html>
```

register.html

```
<html>
    <head>
        <meta charset="UTF-8">
        <title> Register </title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
          <div align="center" class="border">
             <div class="header">
                <h1 class="word">Register</h1>
```

```
       </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('register') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
          <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
          <input id="email" name="email" type="text" placeholder="Enter Your Email ID" class="textbox"/></br></br>
          <input type="submit" class="btn" value="Sign Up"></br>
        </form>
      </h2>
      <p class="bottom">Already have an account?  <a class="bottom" href="{{url_for('login')}}"> Sign In here</a></p>
     </div>
    </div>
  </body>
</html>
```

login.html

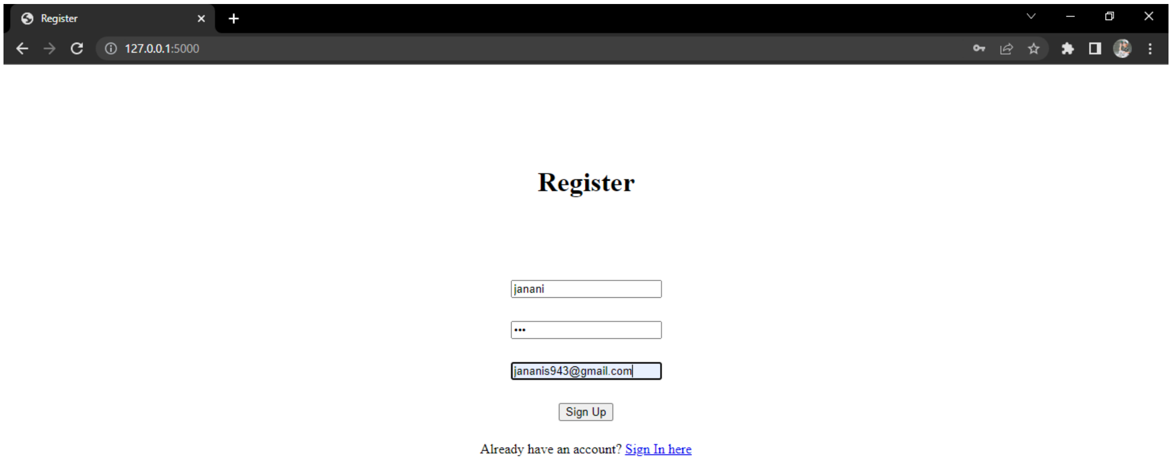
```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
        <h1 class="word">Login</h1>
       </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('login') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
          <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>
          <input type="submit" class="btn" value="Sign In"></br></br>
        </form>
      </h2>
      <p class="bottom">Don't have an account?  <a class="bottom" href="{{url_for('register')}}"> Sign Up here</a></p>
     </div>
    </div>
  </body>
</html>
```

style.css

```
 .header{
        padding: 5px 120px;
        width: 150px;
        height: 70px;
        background-color: #236B8E;
      }

      .border{
        padding: 80px 50px;
        width: 400px;
        height: 450px;
        border: 1px solid #236B8E;
        border-radius: 0px;
        background-color: #9AC0CD;
      }

      .btn {
        padding: 10px 40px;
        background-color: #236B8E;
        color: #FFFFFF;
        font-style: oblique;
        font-weight: bold;
        border-radius: 10px;
      }
```

```
.textbox{
    padding: 10px 40px;
    background-color: #236B8E;
    text-color: #FFFFFF;
    border-radius: 10px;
}

::placeholder {
    color: #FFFFFF;
    opacity: 1;
    font-style: oblique;
    font-weight: bold;
}

.word{
    color: #FFFFFF;
    font-style: oblique;
    font-weight: bold;
}

.bottom{
    color: #236B8E;
    font-style: oblique;
    font-weight: bold;
}
```

OUTPUT



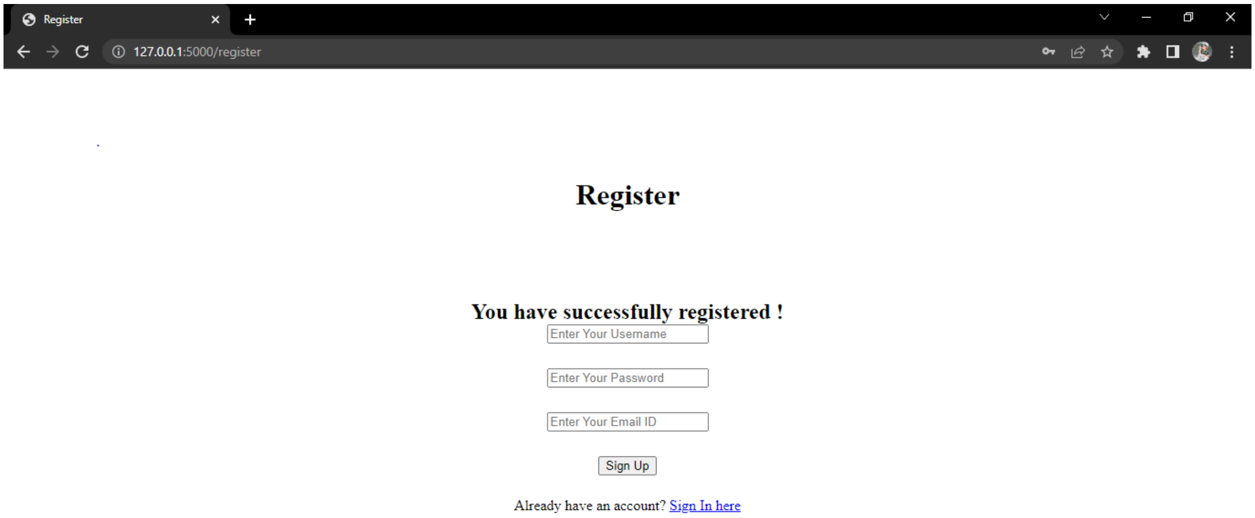
Register

janani

•••

jananis943@gmail.com

Already have an account? Sign In here



Register

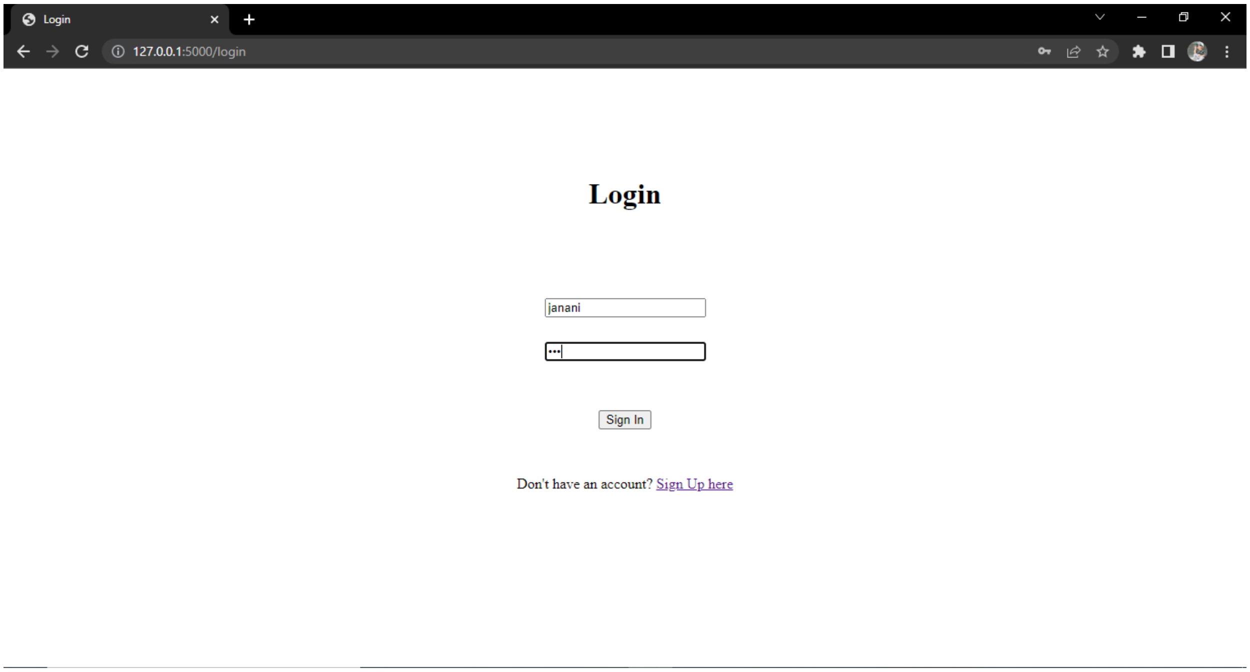
You have successfully registered !

Enter Your Username

Enter Your Password

Enter Your Email ID

Already have an account? Sign In here

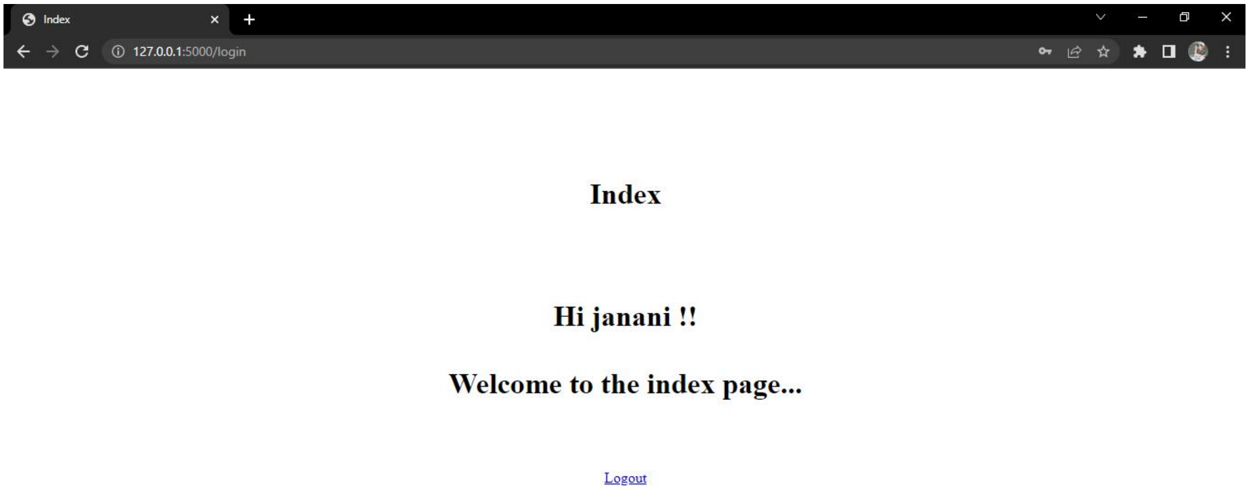


Login

janani

•••

Don't have an account? Sign Up here



Index

Hi janani !!

Welcome to the index page...

Logout