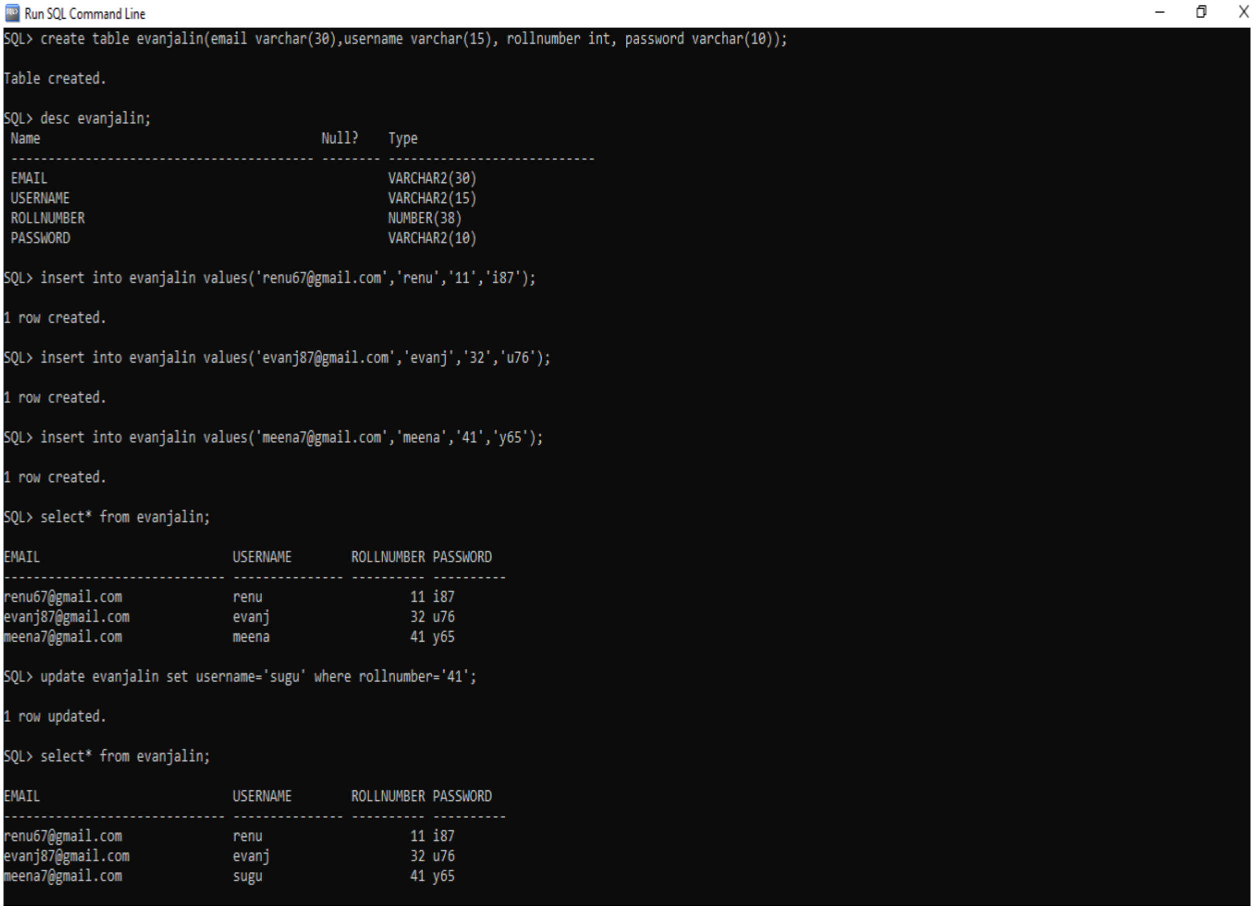
ASSIGNMENT-3

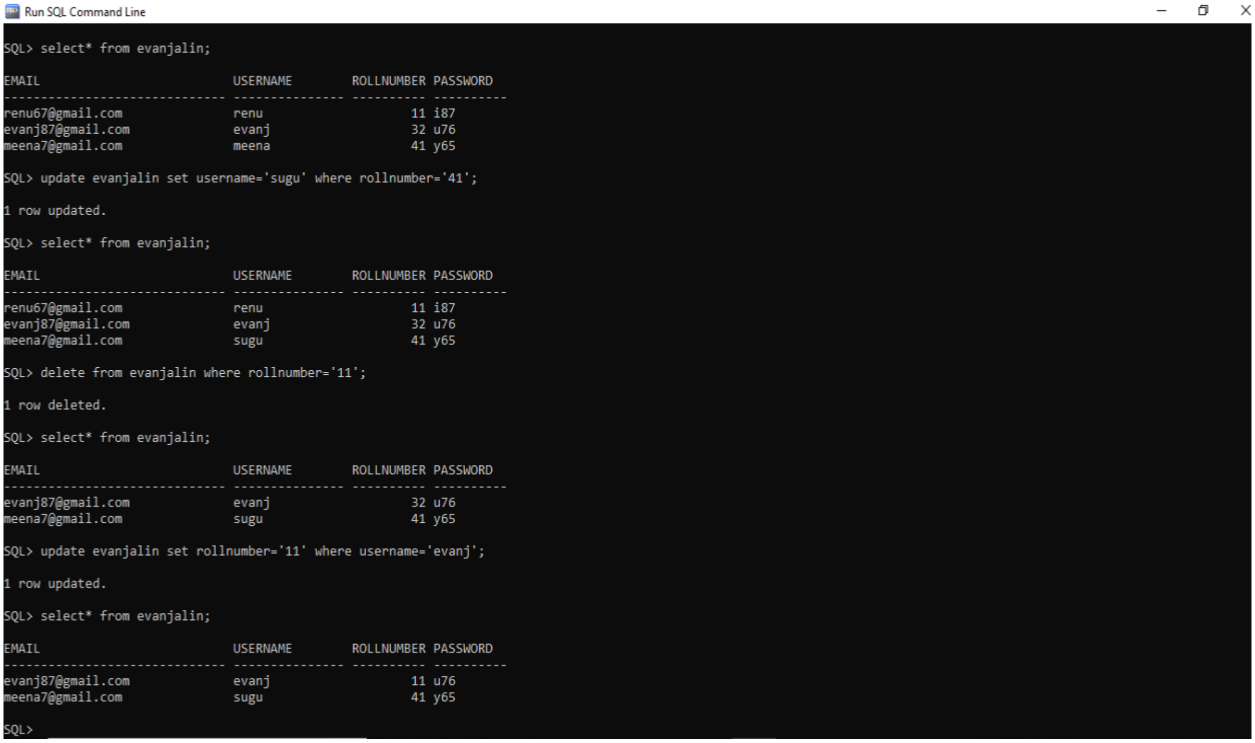
Date	11 october 2022
Team ID	PNT2022TMID49558
Project Name	Project-plasma donor Application
Team Member Name	Evanjalin

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



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

Table created.

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

SQL> insert into evanjalin values('renu67@gmail.com','renu','11','i87');

1 row created.

SQL> insert into evanjalin values('evanj87@gmail.com','evanj','32','u76');

1 row created.

SQL> insert into evanjalin values('meena7@gmail.com','meena','41','y65');

1 row created.

SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
renu67@gmail.com               renu                    11 i87
evanj87@gmail.com              evanj                   32 u76
meena7@gmail.com               meena                   41 y65

SQL> update evanjalin set username='sugu' where rollnumber='41';

1 row updated.

SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
renu67@gmail.com               renu                    11 i87
evanj87@gmail.com              evanj                   32 u76
meena7@gmail.com               sugu                    41 y65
```

2. Perform UPDATE, DELETE Queries with user table



Run SQL Command Line

```
SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
renu67@gmail.com               renu                    11 i87
evanj87@gmail.com              evanj                   32 u76
meena7@gmail.com               meena                   41 y65

SQL> update evanjalin set username='sugu' where rollnumber='41';

1 row updated.

SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
renu67@gmail.com               renu                    11 i87
evanj87@gmail.com              evanj                   32 u76
meena7@gmail.com               sugu                    41 y65

SQL> delete from evanjalin where rollnumber='11';

1 row deleted.

SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
evanj87@gmail.com              evanj                   32 u76
meena7@gmail.com               sugu                    41 y65

SQL> update evanjalin set rollnumber='11' where username='evanj';

1 row updated.

SQL> select* from evanjalin;

EMAIL                          USERNAME        ROLLNUMBER PASSWORD
------------------------------ --------------- ---------- ----------
evanj87@gmail.com              evanj                   11 u76
meena7@gmail.com               sugu                    41 y65

SQL>
```

3. Connect python code to db2

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hnl10309;PWD=4q2SvdOKme6RC7Zr","","")
```

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=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hnl10309;PWD=4q2SvdOKme6RC7Zr",",")
@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>
```

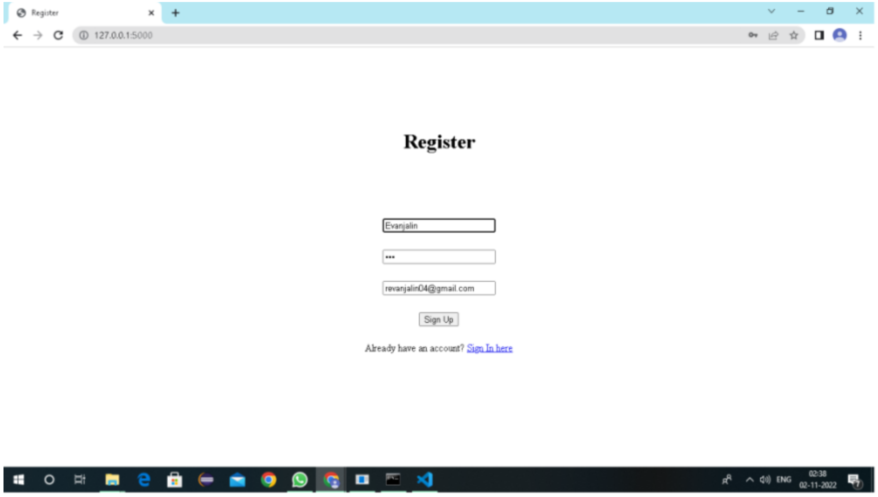
```html
          <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>
          <input type="submit" class="btn" value="Sign In"></br></br>
        </form>
      </h2>
      <p class="bottom">Don't have an account?  <a class="bottom" href="{{url_for('register')}}"> Sign Up here</a></p>
     </div>
    </div>
  </body>
</html>
```

style.css

```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;
      }
```

```css
.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

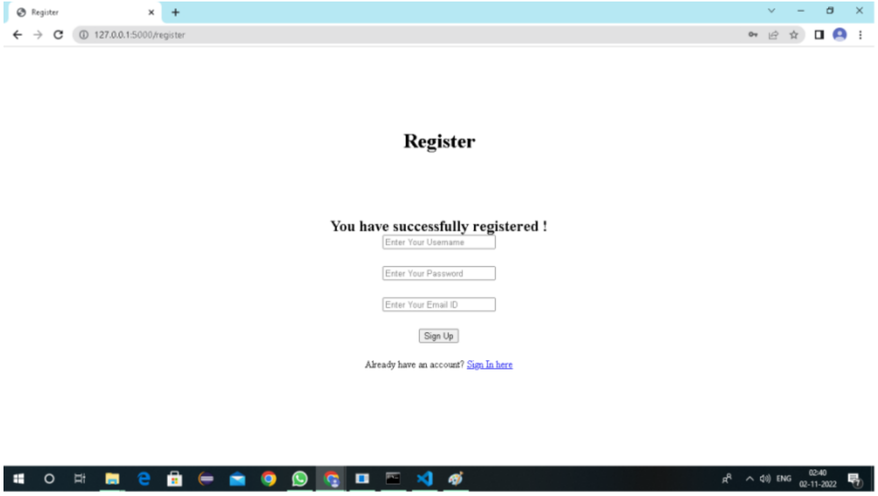
Evanjalin

•••

revanjalin04@gmail.com

Sign Up

Already have an account? Sign In here



Register

You have successfully registered !

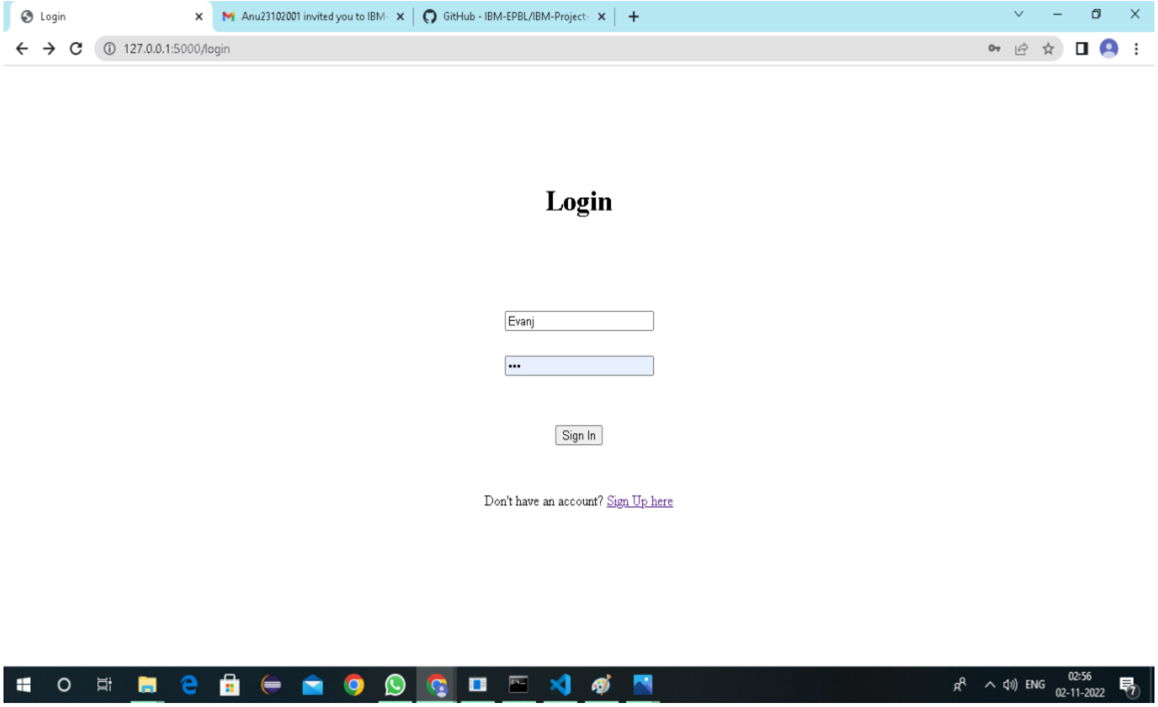
Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

Already have an account? Sign In here


Login
Anu23102001 invited you to IBM-
GitHub - IBM-EPBL/IBM-Project-
127.0.0.1:5000/login
ENG
02:56
02-11-2022

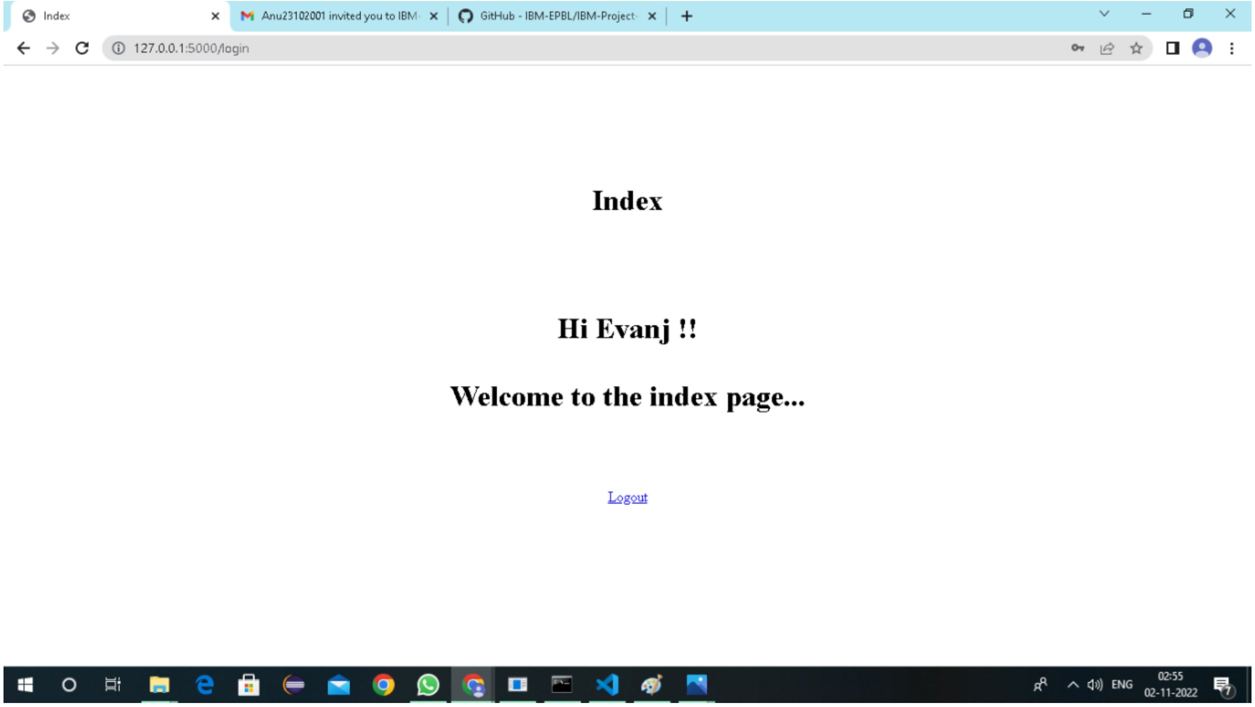
Login

Evanj

•••

Sign In

Don't have an account? Sign Up here


Index
Anu23102001 invited you to IBM-
GitHub - IBM-EPBL/IBM-Project-
127.0.0.1:5000/login
ENG
02:55
02-11-2022

Index

Hi Evanj !!

Welcome to the index page...

Logout