



## **Assignment 2:**

1. Create User table with user with email,username,roll number, password.
2. Perform UPDATE,DELETE Queries with user table
3. Connect python code to db2.
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

File Edit View Query Project Tools Window Help



Object Explorer

Connect

DESKTOP-QI7ADKM\SQLEXPRESS (SQL)

- Databases
  - System Databases
  - Database Snapshots
  - harshini
  - student
  - students
  - test
- Security
- Server Objects
- Replication
- PolyBase
- Management
- XEvent Profiler

SQLQuery5.sql - D...7ADKM\Admin (51))\* SQLQuery2.sql - D...7ADKM\Admin (53))\*

```
create database students;

use students;

create table students(
    ID int,
    Name VARCHAR(20),
    Rollnumber int,
    email varchar(255),
    password int,
);

insert into students(ID, Name, Rollnumber, email,password )
values('1','amirtha', '001', 'priya111@gmail.com', '201015');

select * from students;

insert into students(ID, Name, Rollnumber, email,password )
values('2','riya', '002', 'riya222@gmail.com', '201200');

select * from students;
```

100 %

Results Messages

	ID	Name	Rollnumber	email	password
1	1	amirtha	1	priya111@gmail.com	201015
2	2	riya	2	riya222@gmail.com	201200

Query executed successfully.

DESKTOP-QI7ADKM\SQLEXPRESS ... DESKTOP-QI7ADKM\Admin ... students 00:00:00 2 rows

Object Explorer

Connect

DESKTOP-QI7ADKM\SQLEXPRESS (SQL)

- Databases
- Security
- Server Objects
- Replication
- PolyBase
- Management
- XEvent Profiler

```
--vs3D3A.sql - DES...7ADKM\Admin (60))* --vsC245.sql - DES...I7ADKM\Admin (59))
create database students;

use students;

create table students(
    ID int,
    Name VARCHAR(20),
    Rollnumber int,
    email varchar(255),
    password int,
);

insert into students(ID, Name, Rollnumber, email,password )
values('1','amirtha', '001', 'priyaa11@gmail.com', '201015');

select * from students;

insert into students(ID, Name, Rollnumber, email,password )
values('2','riya', '002', 'riya222@gmail.com', '201200');

select * from students;
delete from students where ID=1
```

83 %

Results Messages

ID	Name	Rollnumber	email	password	
1	2	riya	2	riya222@gmail.com	201200

Object Explorer

Connect

DESKTOP-QI7ADKM\SQLEXPRESS (SQL)

- Databases
- Security
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```
--vs3D3A.sql - DES...7ADKM\Admin (60))* --vsC245.sql - DES...I7ADKM\Admin (59))
create database students;

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create table students(
    ID int,
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insert into students(ID, Name, Rollnumber, email,password )
values('1','amirtha', '001', 'priyaa11@gmail.com', '201015');

select * from students;

insert into students(ID, Name, Rollnumber, email,password )
values('2','riya', '002', 'riya222@gmail.com', '201200');

select * from students;
delete from students where ID=1
update students set Name='rexni' where ID=2
```

83 %

Results Messages

ID	Name	Rollnumber	email	password
1	2 rexni	2	riya222@gmail.com	201200



C:\Users\ELCOT

C:\Users\ELCOT\Downloads\untitled1.py

untitled1.py x

```
1 import pyodbc
2 import os
3
4 pw=os.environ.get("DB2PW")
5 user = os.environ.get("DB2USER")
6
7 con = pyodbc.connect("DSN=testpython;UID*--+user+--+PWD*--+pw")
8
9 print("connected")
10
11
12 cur = con.cursor()
13
14 cur.execute("SELECT PROD_NAME from prod")
15
16 data = cur.fetchall()
17
18 print(data)
19
```

Source Console ...

Usage

Here you

Help Variable Explorer Plots File



In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [1]:

In [2]:

Removing all variables...

In [2]:

IPython Console History Termin

```
# Store this code in 'app.py' file
```

```
from flask import Flask, render_template, request, redirect, url_for, session
```

```
from flask_mysql import MySQL
```

```
import MySQLdb.cursors
```

```
import re
```

```
app = Flask(__name__)
```

```
app.secret_key = 'your secret key'
```

```
app.config['MYSQL_HOST'] = 'localhost'
```

```
app.config['MYSQL_USER'] = 'root'
```

```
app.config['MYSQL_PASSWORD'] = 'your password'
```

```
app.config['MYSQL_DB'] = 'geeklogin'
```

```
mysql = MySQL(app)
```

```
@app.route('/')
```

```
@app.route('/login', methods = ['GET', 'POST'])
```

```
@app.route('/login', methods =['GET', 'POST'])

def login():

    msg = ''

    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:

        username = request.form['username']

        password = request.form['password']

        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

        cursor.execute('SELECT * FROM accounts WHERE username = % s AND password = % s', (username, password, ))

        account = cursor.fetchone()

        if account:

            session['loggedin'] = True

            session['id'] = account['id']

            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' and 'username' in request.form and 'password' in request.form and 'email' in request.form :
```

```
        username = request.form['username']
```

```
        password = request.form['password']
```

```
        email = request.form['email']
```

```
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
```

```
        cursor.execute('SELECT * FROM accounts WHERE username = % s', (username, ))
```

```
        account = cursor.fetchone()
```

```
        if account:
```



```
cursor.execute('SELECT * FROM accounts WHERE username = % s', (username, ))

account = cursor.fetchone()

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:

    cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)', (username, password, email, ))

    mysql.connection.commit()

    msg = 'You have successfully registered !'

elif request.method == 'POST':

    msg = 'Please fill out the form !'

return render_template('register.html', msg = msg)
```

```
<!-- Store this code in 'login.html' file inside the 'templates' folder -->
```

```
<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></br>
```

```
<div align="center">
```

```
<div align="center" class="border">
```

```
<div class="header">
```

```
<h1 class="word">Login</h1>
```

```
</div><br></br><br></br>
```

```
<h2 class="word">
```

```
<form action="{{ url_for('login') }}" method="post">
```

```
<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>
```

```
<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">

        <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>

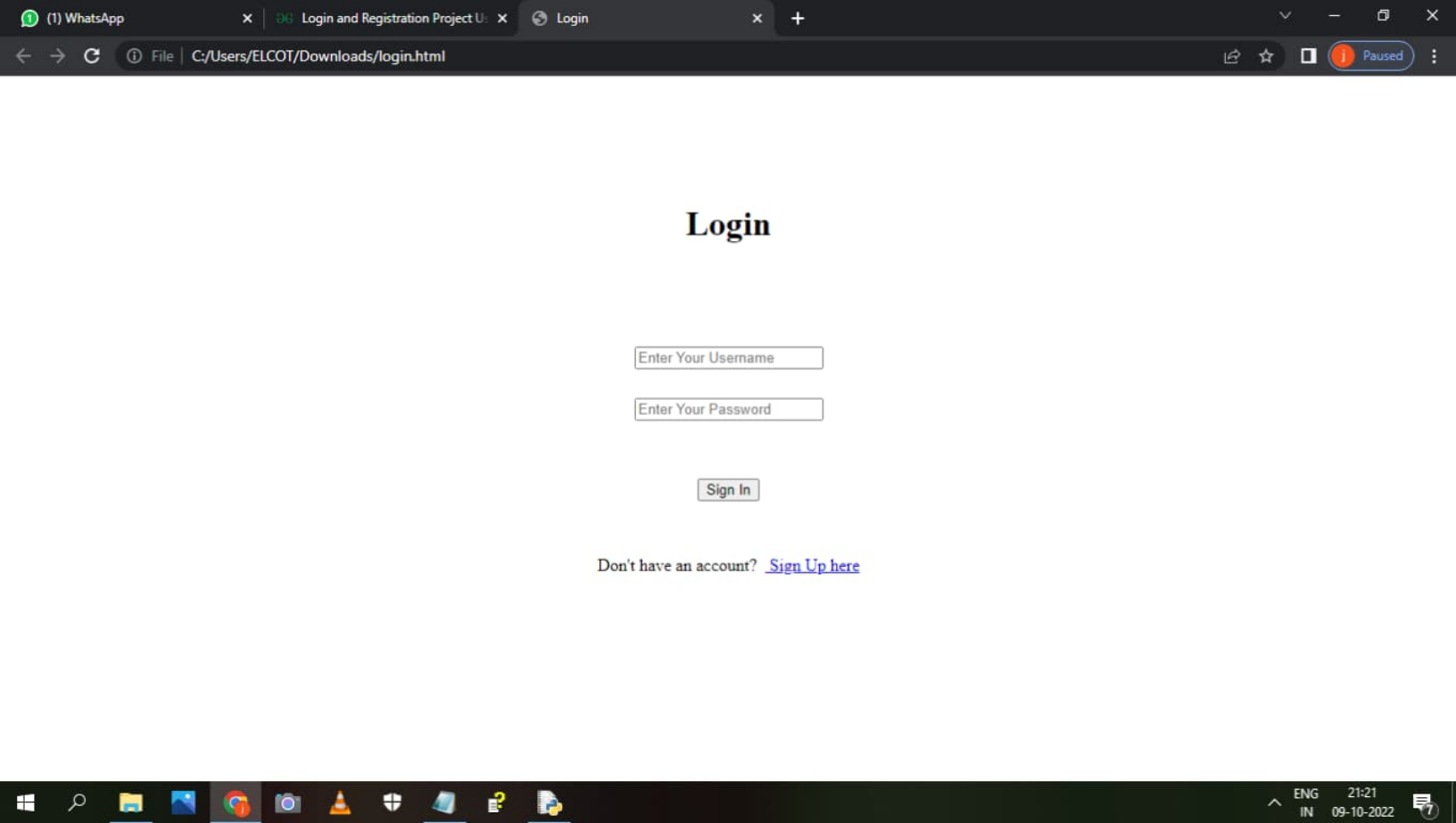
    <p class="bottom">Don't have an account? &nbsp;<a class="bottom" href="{{url_for('register')}}"> Sign Up here</a></p>

  </div>

</div>

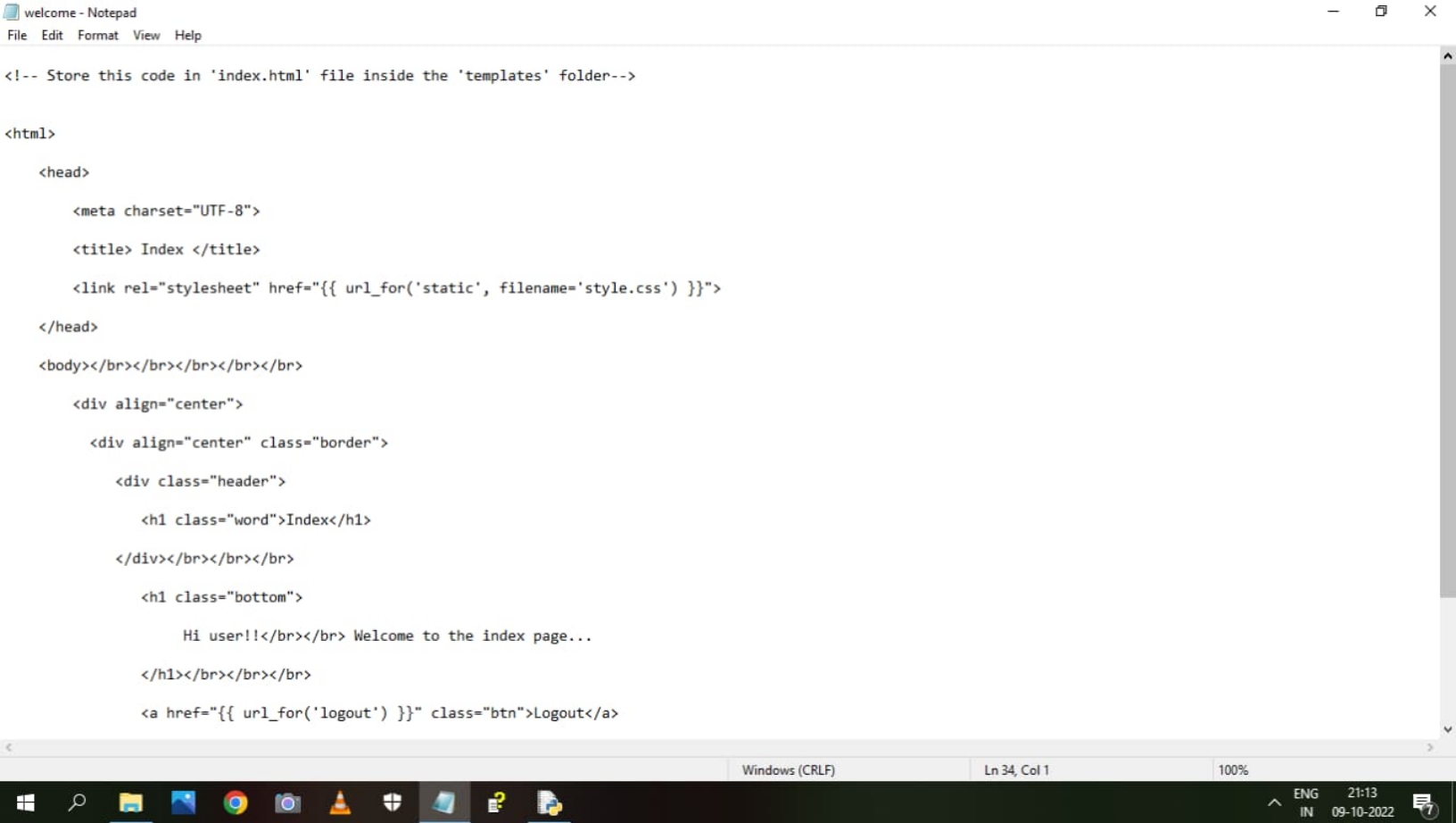
</body>

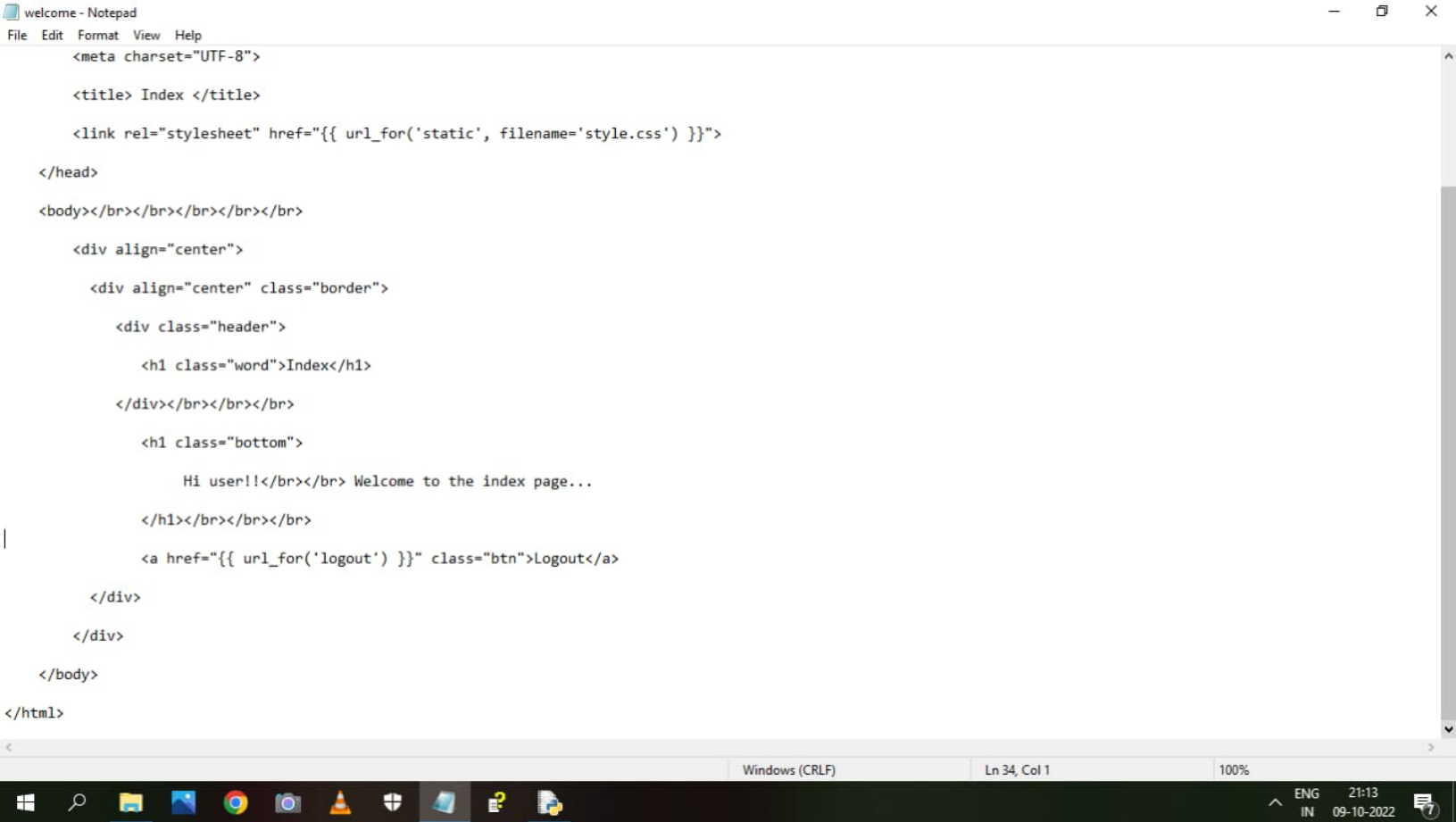
</html>
```

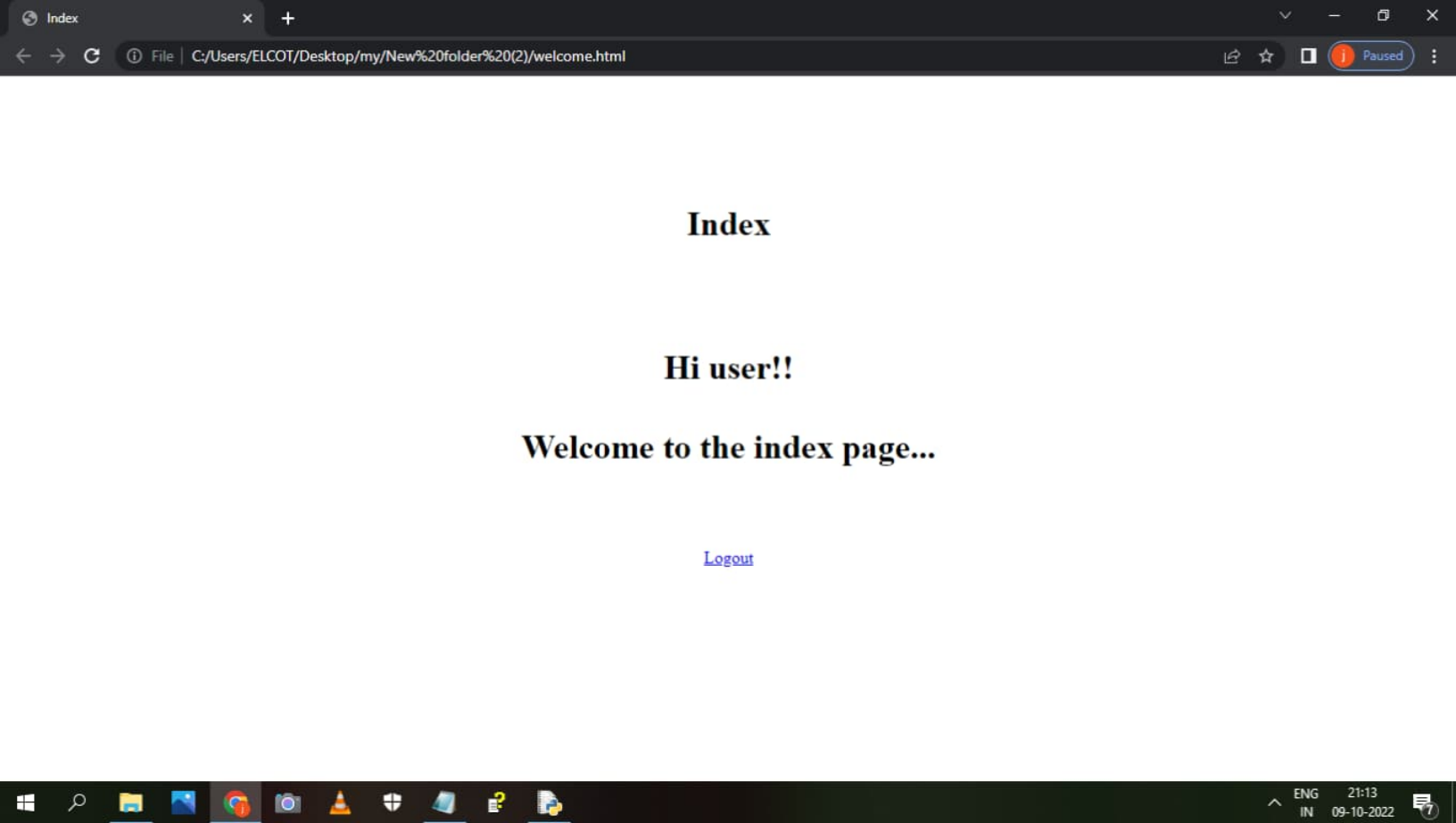


# Login

Don't have an account? [Sign Up here](#)







**Index**

**Hi user!!**

**Welcome to the index page...**

[Logout](#)

<!-- Store this code in 'register.html' file inside the 'templates' folder -->

<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">

<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>



```
<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">

      <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? &nbsp;<a class="bottom" href="{ { url_for('login') } }"> Sign In here</a></p>

</div>

</div>

</body>

</html>
```

# Register

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