

ASSIGNMENT 2

Assignment Date	09.11.2022
Student Name	Mohamed Umar. S
Student Roll Number	913019104013
Maximum Marks	2 Marks

QUESTION:

1.Create a Flask App :

```
from turtle import st
from flask import Flask, render_template, request, redirect, url_for, session
from markupsafe import escape

app = Flask(__name__)

import ibm_db

hostname = "764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
uid = "qph68689"
pwd = "igr5nkXqgfIHqv7r"
driver = "{IBM DB2 ODBC DRIVER}"
db = "bludb"
port = "32536"
protocol = "TCPIP"
cert = "abc.crt"

dsn = (
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
    "SECURITY=SSL;"
    "SSLServerCertificate={4};"
    "PWD={5};"
).format(db, hostname, port, uid, cert, pwd)
```

```
print(dsn)

try:
    db2 = ibm_db.connect(dsn, "", "")
    print("Connected to data base")
except:
    print("Unable to connect", ibm_db.conn_errormsg())


@app.route('/')
def home():
    return render_template('webpage.html')


@app.route('/signin')
def signin():
    return render_template('signin.html')


@app.route('/signup')
def signup():
    return render_template('signup.html')


@app.route('/welcome')
def welcome():
    return render_template('welcome.html')


@app.route('/log-in', methods=['POST', 'GET'])
def log_in():
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from user where username=? and password=?"
        stmt = ibm_db.prepare(db2, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        dic = ibm_db.fetch_assoc(stmt)
        print(dic)
        if dic:
            return redirect(url_for('welcome'))
        else:
```

```

        msg = "Invalid Username or Password"
        return render_template('signin.html', msg=msg)

    elif request.method == 'GET':
        msg = "Invalid Username or Password"
        return render_template('signin.html', msg=msg)

@app.route('/sign-up', methods=['POST', 'GET'])
def sign_up():
    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        sql = "insert into user(username,email,password) values(?,?,?)"
        prep_stmt = ibm_db.prepare(db2, sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, password)
        ibm_db.execute(prepare_stmt)
        return redirect(url_for('signin'))
    elif request.method == 'GET':
        return render_template('signup.html')

    stmt = ibm_db.exec_immediate(db2, sql)

    students = []
    sql = "SELECT * FROM Students"
    stmt = ibm_db.exec_immediate(db2, sql)
    dictionary = ibm_db.fetch_both(stmt)
    while dictionary != False:
        students.append(dictionary)
        dictionary = ibm_db.fetch_both(stmt)
    if students:
        return render_template("list.html", students=students, msg="student detail Deleted successfully")

if __name__ == '__main__':
    app.run(debug=True)

```

OUTPUT :

```
Run: app x
C:\Users\monsu\anaconda3\python.exe "C:\Users\monsu\OneDrive\Documents\Assignment 2\app.py"
DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;UID=qph68689;SECURITY=SSL;SSLServerCertificate=abc.crt;PWD=
Unable to connect [IBM][CLI Driver] SQL1336N The remote host "764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.ap" was not found. SQLSTATE=08001 SQLCODE=-13
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with watchdog (windowsapi)
DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;UID=qph68689;SECURITY=SSL;SSLServerCertificate=abc.crt;PWD=
Unable to connect [IBM][CLI Driver] SQL1336N The remote host "764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.ap" was not found. SQLSTATE=08001 SQLCODE=-13
* Debugger is active!
* Debugger PIN: 746-444-190
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

2. ADD THE HOME AND ABOUT PAGE :

WEBPAGE (first page) :

```
{% extends "home.html" %}

{% block navbar %}

    <div class="offcanvas-body">
        <ul class="navbar-nav justify-content-end flex-grow-1 pe-3">
            <li class="nav-item">
                <a class="nav-link " aria-current="page" href="{{
url_for('signin') }}">Signin</a>
            </li>
            <li class="nav-item">
                <a class="nav-link"
href="{{url_for('signup')}}">Signup</a>
            </li>
        </ul>

    {% endblock %}

{% block content %}<br><br>
<center>

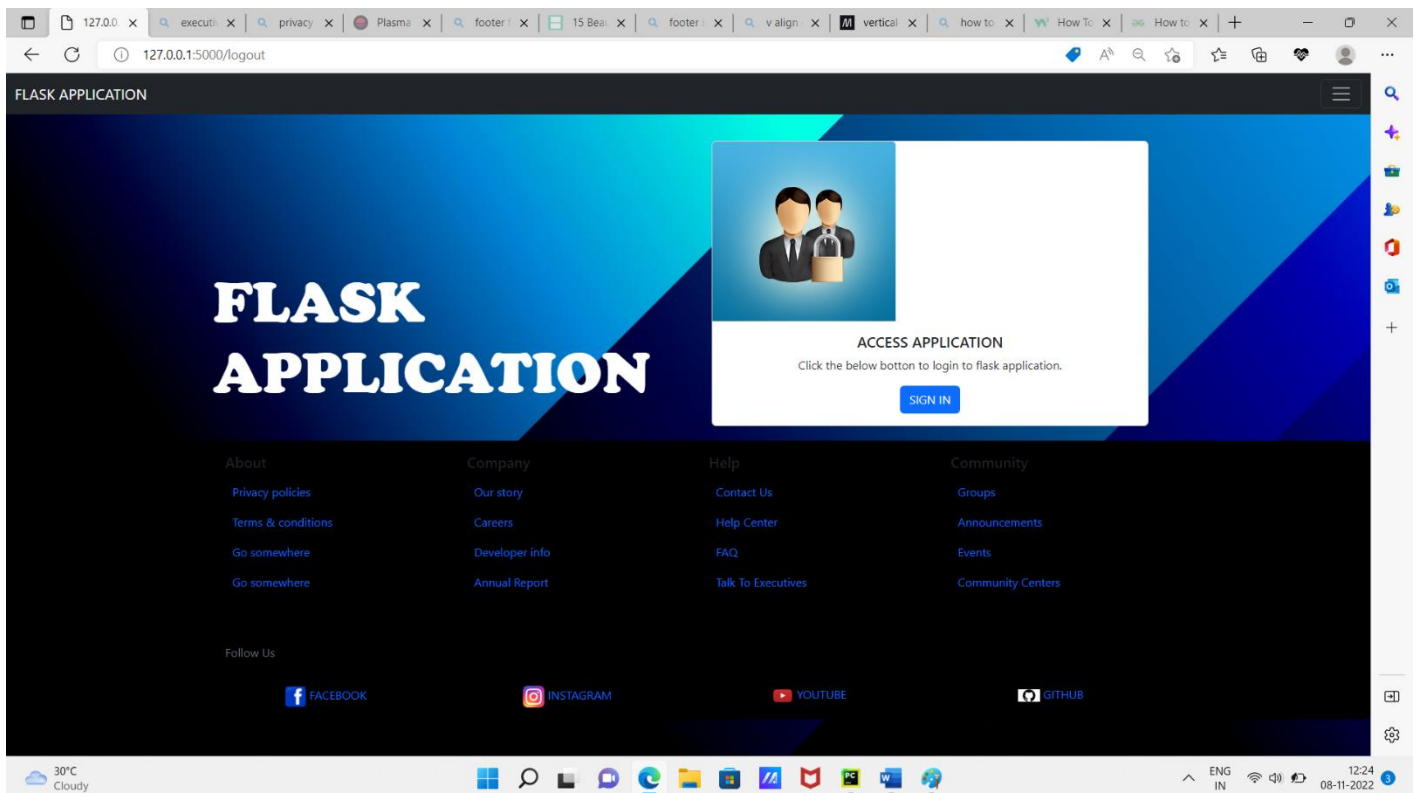
    <div class="container text-center">
        <div class="row">
            <div class="col"><br><br><br><br><br><br><br>
                <h1 style="font-family: Cooper Black;color:white; vertical-
align: middle; text-align: justify; font-size:80px;"> FLASK
APPLICATION</h1>

            </div>
            <div class="col">
                <div class="card" STYLE="MARGIN:20PX;">
                    
  <h5 class="card-title">ACCESS APPLICATION</h5>
  <p class="card-text">Click the below button to login to flask
application.</p>
  <a href="/signin" class="btn btn-primary">SIGN IN</a>
</div>
</div>
</div></div>

</center>
{% endblock %}

```

OUTPUT :



HOME PAGE (Welcome page):

```
{% extends "home.html" %}

{% block navbar %}

    <li class="nav-item">
        <a class="nav-link" href="{{url_for('new_student')}}">Add
student</a>
    </li>

<li class="nav-item">
    <a class="nav-link" href="{{url_for('list')}}">List
student</a>
    </li>

<li class="nav-item">
    <a class="nav-link"
href="{{url_for('logout')}}">Logout</a>
    </li>

{% endblock %}

{% block content %}<br><br><br>

<div class="row">
    <div class="col">

<div class="card" style="margin-left:20px;">
    

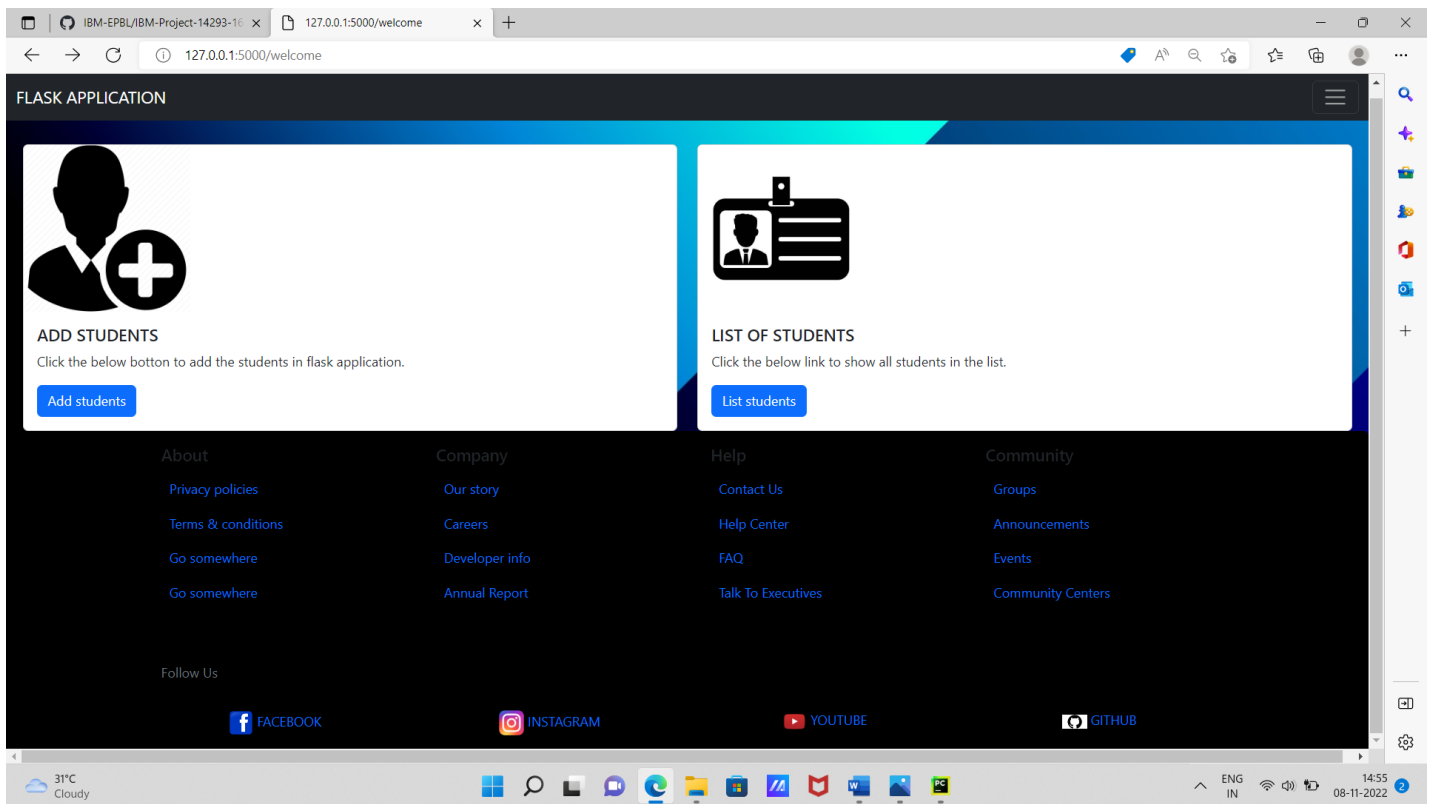
    <div class="card-body">
        <h5 class="card-title">ADD STUDENTS</h5>
        <p class="card-text">Click the below button to add the students in
flask application.</p>
        <a href="/addstudent" class="btn btn-primary">Add students</a>
    </div>
</div>
    </div>
    <div class="col">

<div class="card" style="margin-right:20px;">
    

    <div class="card-body">
        <h5 class="card-title">LIST OF STUDENTS</h5>
        <p class="card-text">Click the below link to show all students in the
list.</p>
        <a href="/list" class="btn btn-primary">List students</a>
    </div>
</div> </div>

{% endblock %}
```

OUTPUT :



3.ADD THE BOOTSTRAP :

```
<head>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-
oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlhmh/jp3"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js" integrity="sha384-
IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFTuNz0wWnPclzo6p9vxnk"
crossorigin="anonymous"></script>

</head>
```

4.SIGN IN PAGE :

```
{% extends "home.html" %}

{% block navbar %}

<li class="nav-item ">
  <a class="nav-link disabled" href="{{ url_for('signin') }}">Sign In</a>
</li>

<li class="nav-item">
  <a class="nav-link" href="{{ url_for('signup') }}">Sign Up</a>
</li>

{% endblock %}
```



```

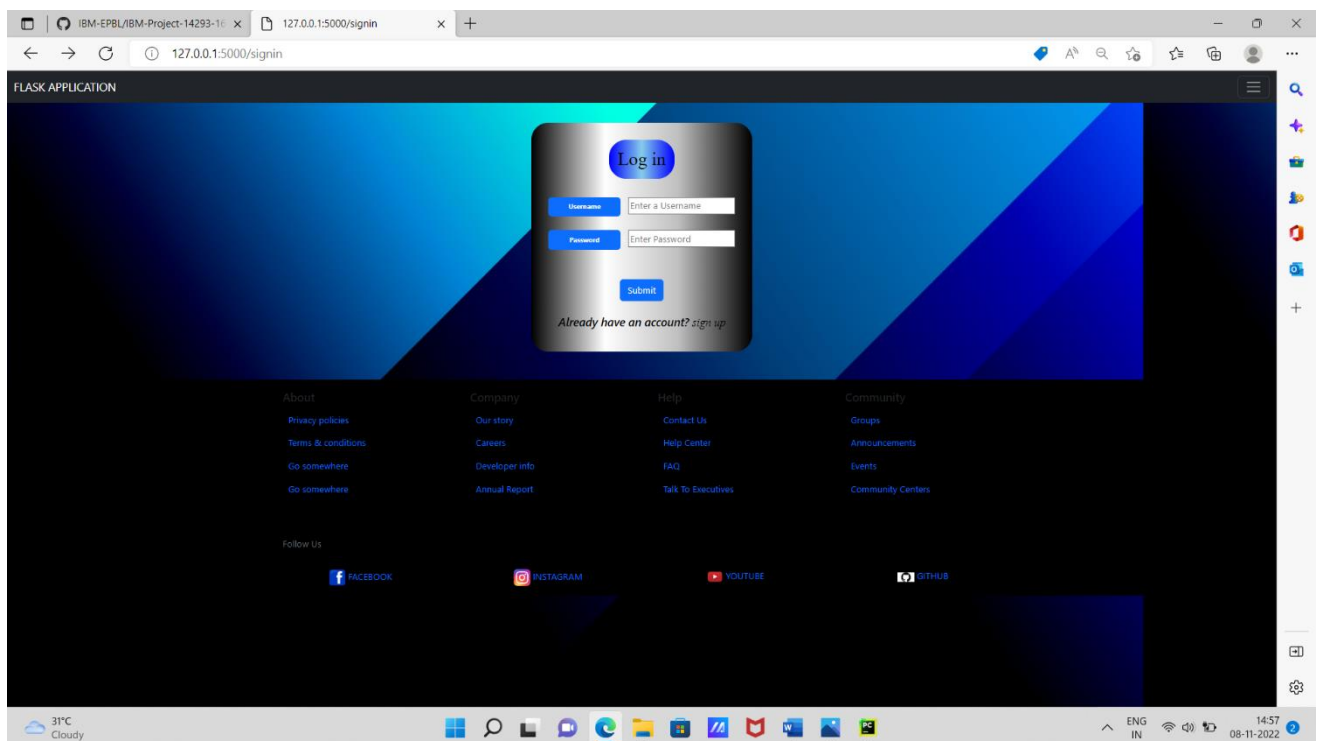
</div><h6 style="color:black; padding-top:20px;">{{ msg }}</h6>
<br>
<div class="col-12">
  <button class="btn btn-primary" type="submit">Submit </button>
</div><br>
<h5 style="font-style: italic;color:black; ">Already have an account? <a href="{{ url_for('signup')}}"
style="text-decoration: none; font-style: italic;color:black; font-family:times new roman; ">sign up</a></h5>
</div>

</div>

</center>
</form>
{% endblock %}

```

OUTPUT :



5.SIGN UP PAGE :

```
{% extends "home.html" %}

{% block navbar %}

<li class="nav-item">
    <a class="nav-link" href="{{ url_for('signin') }}">Sign In</a>
</li>

<li class="nav-item">
    <a class="nav-link disabled" href="{{ url_for('signup') }}">Sign Up</a>
</li>

{% endblock %}

{% block content %}
<br><br>
<br>
<br><br>
<br>
<br><br>
<br>

<center>
    <form action = "{{ url_for('sign_up') }}" method = "POST">
        <div style="background-image: linear-gradient(to right,black, white, silver,black); width:fit-content; border-
radius: 30px; ">
<div style="padding: 20px;">

            <h2 style="font-family:fajita; color:black; background-image: linear-gradient(to right,blue,skyblue,blue);
padding: 15px;
width: fit-content; border-radius: 30px;">Sign Up </h2>

        <br>

        <div class="container text-center">
```

```
<div class="col">
  <div class="badge bg-primary text-wrap" style="width: 8rem; padding-top: 10px;">

    <label for="Email" class="form-label">Username </label>
  </div>
  <font color="white">:</font>

  <input type="text" class="col" placeholder="Enter a Username" name="username">

</div><br>

<div class="col">
  <div class="badge bg-primary text-wrap" style="width: 8rem; padding-top: 10px;">

    <label for="Email" class="form-label">Email Id </label>
  </div>
  <font color="white">:</font>

  <input type="text" class="col" placeholder="Enter a email" name="email">

</div>
<br>

<div class="col">
  <div class="badge bg-primary text-wrap" style="width: 8rem; padding-top: 10px;">

    <label for="Email" class="form-label">Password </label>
  </div>
  <font color="white">:</font>

  <input type="text" class="col" placeholder="Enter Password" name="password">

</div>
<br>
```

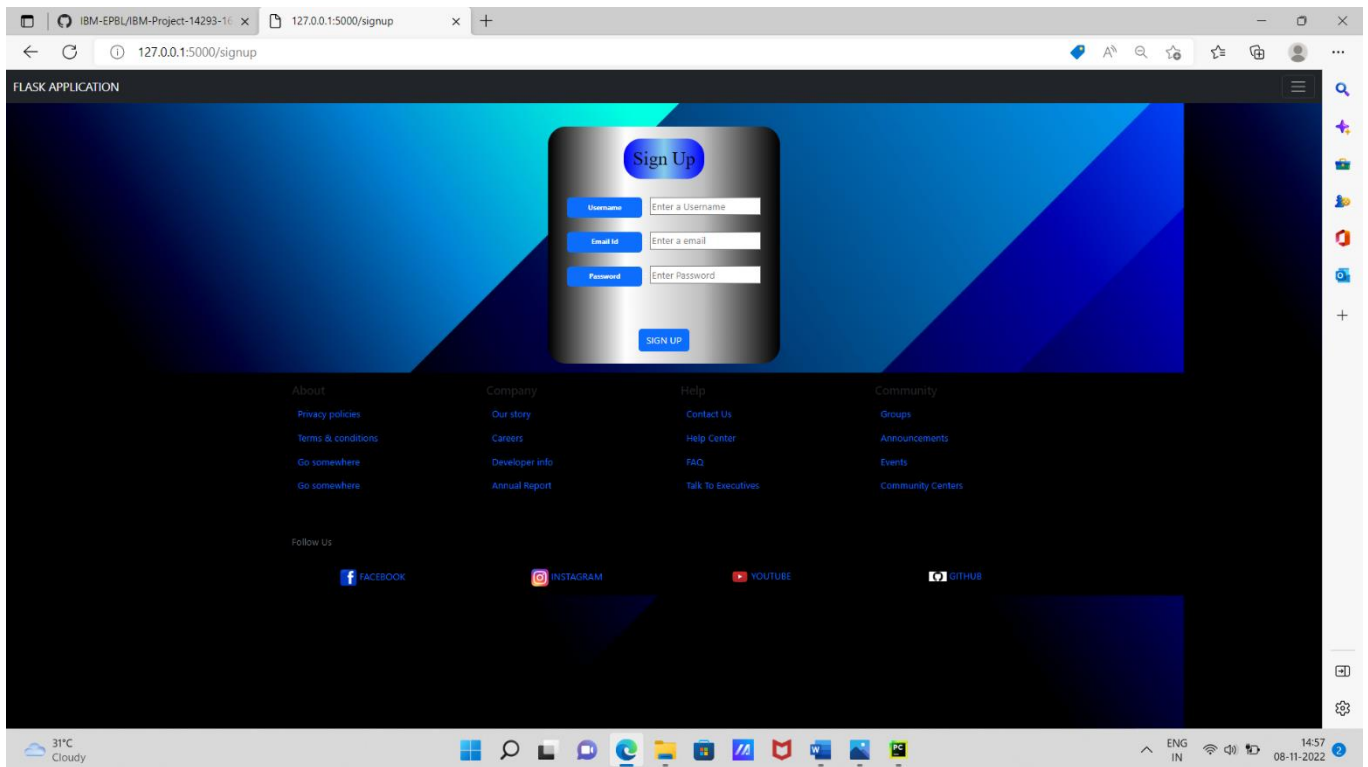
```

<br><br>
<div class="col-12">
  <button class="btn btn-primary" type="submit">SIGN UP </button>
</div>

</div>
</div>
  </div>
</center>
</form>
{% endblock %}

```

OUTPUT :



5.DATABASE CONNECTIVITY :

```

import ibm_db
hostname = "764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
uid = "qph68689"
pwd = "igr5nkXqgfIHqv7r"
driver = "{IBM DB2 ODBC DRIVER}"
db = "bludb"
port = "32536"
protocol = "TCPIP"
cert = "abc.crt"
dsn = (
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
    "SECURITY=SSL;"
    "SSLServerCertificate={4};"
    "PWD={5};"
).format(db, hostname, port, uid, cert, pwd)
print(dsn)
try:
    db2 = ibm_db.connect(dsn, "", "")
    print("Connected to data base")
except:
    print("Unable to connect", ibm_db.conn_errormsg())

```

OUTPUT :

```

DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;UID=qph68689;
Connected to data base
* Debugger is active!
* Debugger PIN: 746-444-190
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

```

DATABASE LIST :

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

QPH68689.USER

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
Admin	monsumar123@gmail.com	\$Mdumar###
darshini	darsh@1345	hgff
dinakar	123@gmail.com	12324
dinakar	123@gmail.com	12324
monsumar123@gmail.com	monsumar123@gmail.com	ffff
monsumar123@gmail.com	monsumar123@gmail.com	lll
monsumar123@gmail.com	913019104030@smartinternz.com	gg
monsumar123@gmail.com	monsumar123@gmail.com	////
sakthibalan	sakthibalan@123	123456
umar	monsumar123@gmail.com	M123456
umar	monsumar123@gmail.com	M123456