

ASSIGNMENT 2

Assignment Date	17.11.2022
Student Name	S.Vilva praveen
Student Roll Number	913019104029
Maximum Marks	2Marks

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 = "9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

uid = "wth08341"

pwd = "c8Xk4BUv4Cg6b3SB"

driver = "{IBM DB2 ODBC DRIVER}"

db = "bludb"

port = " 32459"

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('home.html')

@app.route('/signin')

def signin():

    return render_template('signin.html')

@app.route('/signup')

def signup():

    return render_template('signup.html')

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

def register():

    if request.method == 'POST':

        username = request.form['username']

        email = request.form['email']

        password = request.form['password']

        sql = "SELECT * FROM user WHERE username =?"

        stmt = ibm_db.prepare(db2, sql)

        ibm_db.bind_param(stmt, 1, username)

        ibm_db.execute(stmt)

        account = ibm_db.fetch_assoc(stmt)

        if account:

```

```

        return render_template('signup.html', msg="Username Already Taken")
    else:

        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'))

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

    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 render_template('home.html', msg="WELCOME TO FLASK APPLICATION")

        else:

            msg = "Invalid Username or Password"

            return render_template('signin.html', msg=msg)

    elif request.method == 'GET':

        msg = "Invalid Username or Password"

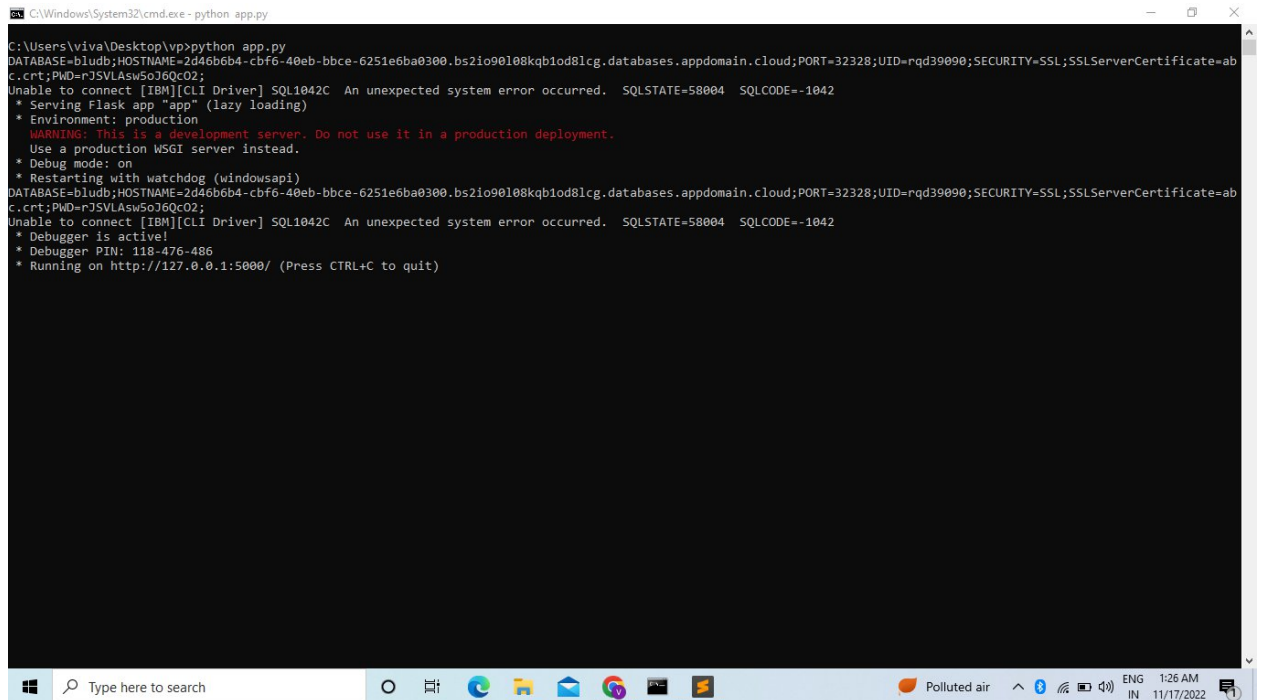
        return render_template('signin.html', msg=msg)

if __name__ == '__main__':

    app.run(debug=True)

```

OUTPUT :



```
C:\Windows\System32\cmd.exe - python app.py
c:\Users\live\Desktop\vp>python app.py
DATABASE=bludb;HOSTNAME=2d466b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8l1cg.databases.appdomain.cloud;PORT=32328;UID=rqd39090;SECURITY=SSL;SSLServerCertificate=ab
c.crt;PWD=rJ5VLA5w5o36Qc02;
Unable to connect [IBM][CLI Driver] SQL1042C  An unexpected system error occurred.  SQLSTATE=58004  SQLCODE=-1042
* 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=2d466b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8l1cg.databases.appdomain.cloud;PORT=32328;UID=rqd39090;SECURITY=SSL;SSLServerCertificate=ab
c.crt;PWD=rJ5VLA5w5o36Qc02;
Unable to connect [IBM][CLI Driver] SQL1042C  An unexpected system error occurred.  SQLSTATE=58004  SQLCODE=-1042
* Debugger is active!
* Debugger PIN: 118-476-486
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

2. ADD THE HOME AND ABOUT PAGE :

WEBPAGE (first page) :

```
<html>
```

```
<head>
```

```
<title>home</title>
```

```
<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-oBqDVmMz9ATKxleP9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlImh/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>
```

```
<style>
```

```
body{
```

```
padding:50px;
```

```
background-image:linear-gradient(to right,black,blue,black) ;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body >
```

```
<a href="{{url_for('signin')}}"><button class="rounded-pill" style="width: 600px; height: 75px; background-
color: lightyellow; font-size: 45px;">signin</button></a>
```

```
<a href="{{url_for('signup')}}"><button class="rounded-pill" style="width: 600px; height:75px; background-
color: lightyellow; font-size: 45px;">signup</button></a><br>
```

```
<h1 style=" font-size: 120px; font-family:cooper black;color:white ; ">FLASK APPLICATION</h1>
```

```
{% block content %}
```

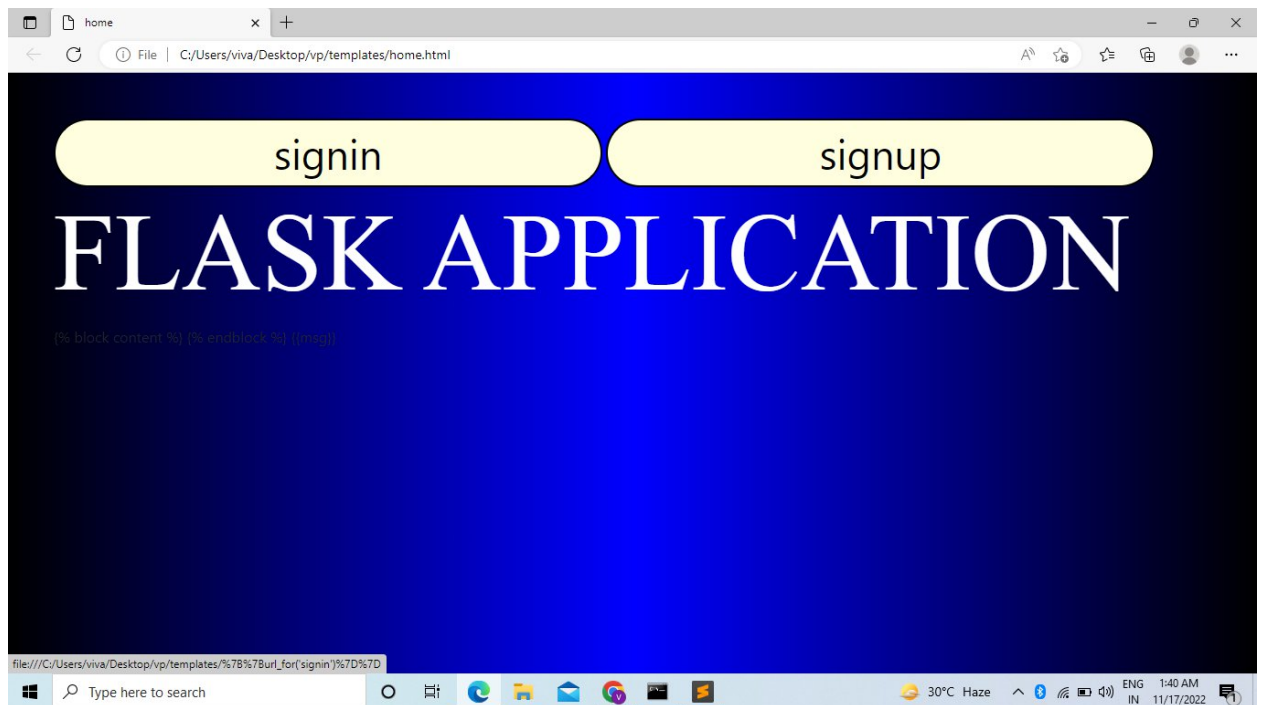
```
{% endblock %}
```

```
{{msg}}
```

```
</body>
```

```
</html>
```

OUTPUT :



HOME PAGE (Welcome page):

```
<html>
```

```
<head>
```

```
<title>home</title>
```

```
<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-oBqDVmMz9ATKxleP9tiCxS/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>
```

```
<style>
```

```
body{
padding:50px;
background-image:linear-gradient(to right,black,blue,black) ;
}
```

```
</style>
```

```
</head>
```

```
<body >
```

```
<a href="{{url_for('signin')}}"><button class="rounded-pill" style="width: 600px; height: 75px; background-
color: lightyellow; font-size: 45px;">signin</button></a>
```

```
<a href="{{url_for('signup')}}"><button class="rounded-pill" style="width: 600px; height:75px; background-
color: lightyellow; font-size: 45px;">signup</button></a><br>
```

```
<h1 style=" font-size: 120px; font-family:cooper black;color:white ; ">FLASK APPLICATION</h1>
```

```
{% block content %}
```

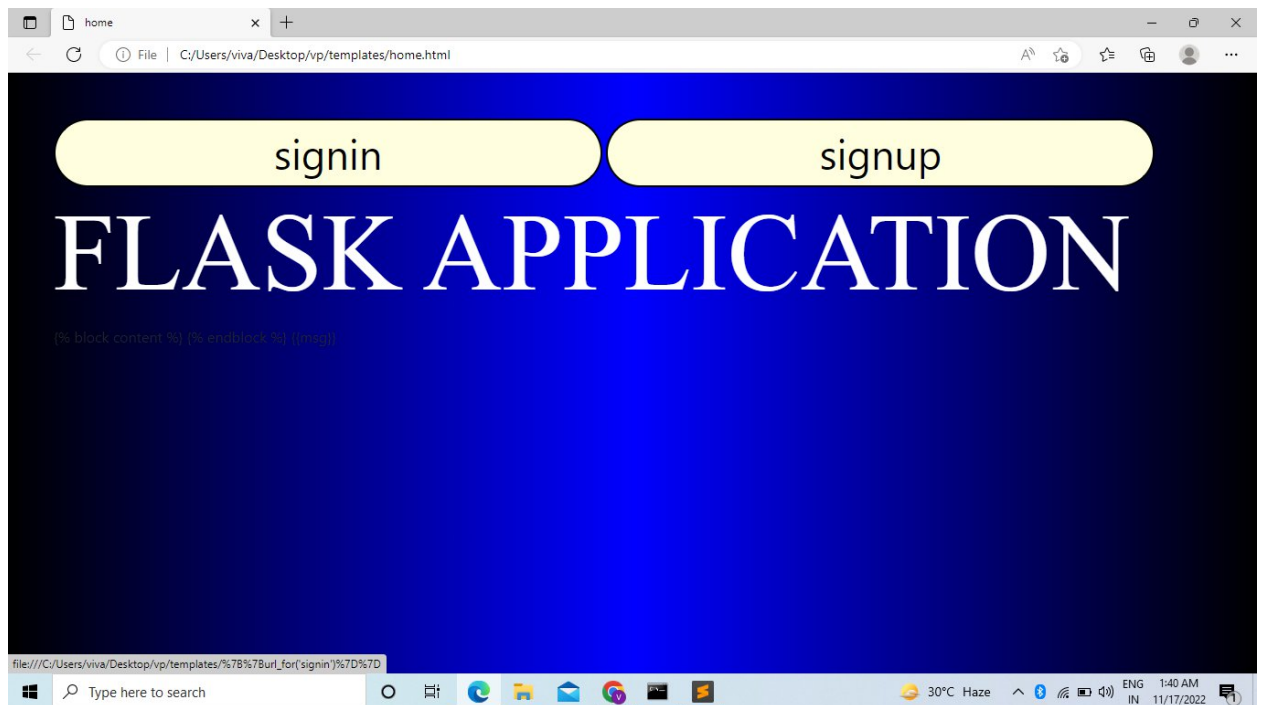
```
{% endblock %}
```

```
{{msg}}
```

```
</body>
```

```
</html>
```

OUTPUT :



3.ADD THE BOOTSTRAP :

```
<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-oBqDVmMz9ATKxleP9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlMh/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>
```


4.SIGN IN PAGE :

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

```
{% block content %}
```

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

```
<font color="white">
```

```
<div class="mb-3" >
```

```
<label for="username" class="form-label" >username</label>
```

```
<input type="text" name="username" class="form-control" id="username"placeholder="username">
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="exampleInputPassword1" class="form-label">Password</label>
```

```
<input type="password" class="form-control" name="password"  
id="exampleInputPassword1"placeholder="Password">
```

```
</div>
```

```
<div class="mb-3 form-check">
```

```
<input type="checkbox" class="form-check-input" id="exampleCheck1">
```

```
<label class="form-check-label" for="exampleCheck1">Check me out</label>
```

```
</div>
```

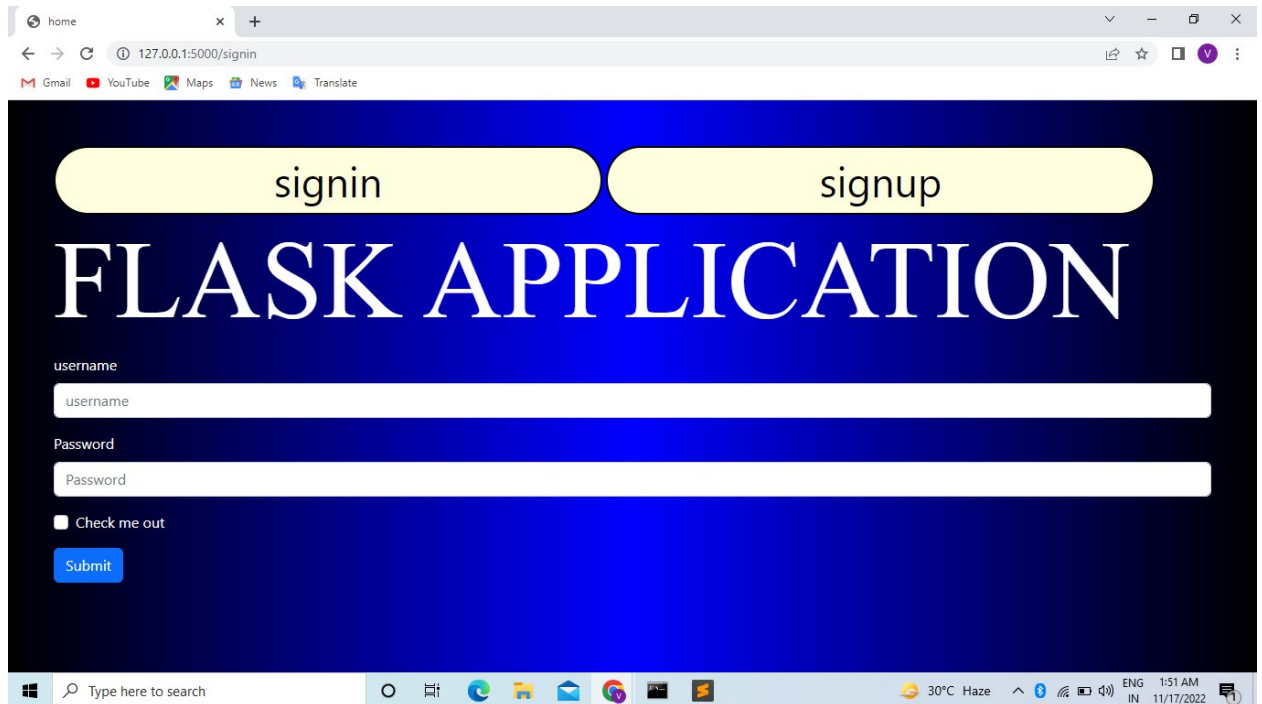
```
<button type="submit" class="btn btn-primary">Submit</button></font>
```

```
</form>
```

```
{{msg}}
```

```
{% endblock %}
```

OUTPUT :



5.SIGN UP PAGE :

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

```
{% block content %}
```

```
<form action = "{{ url_for('register') }}" method = "POST">
```

```
<font color="white">
```

```
<div class="mb-3">
```

```
<label for="exampleInputPassword1" class="form-label">Username</label>
```

```
<input type="password" name="password" class="form-control" placeholder="Password"
id="exampleInputPassword1">
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="exampleInputEmail1" class="form-label" >Email address</label>
```

```
<input type="email" name="email" class="form-control" placeholder="Email" id="exampleInputEmail1"
aria-describedby="emailHelp">
```

```
<div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>
```

```

</div>

<div class="mb-3">

  <label for="exampleInputPassword1" class="form-label" >Password</label>

  <input type="password" name="password" class="form-control" placeholder="password"
id="exampleInputPassword1">

</div>

<div class="mb-3 form-check">

  <input type="checkbox" class="form-check-input" id="exampleCheck1">

  <label class="form-check-label" for="exampleCheck1">Check me out</label>

</div>

<button type="submit" class="btn btn-primary" >Submit</button>

</font>

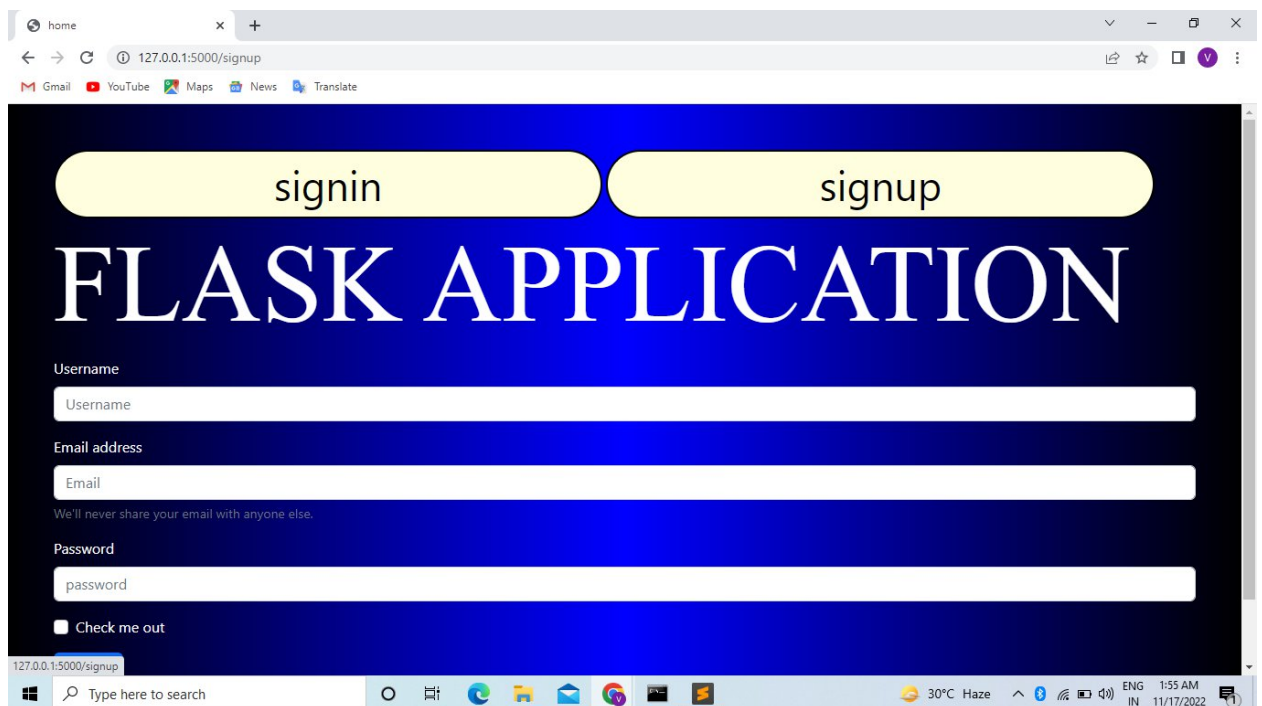
</form>

{{msg}}

{% endblock %}

```

OUTPUT :



5.DATABASE CONNECTIVITY :

```
import ibm_db

hostname = "9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

uid = "wth08341"

pwd = "c8Xk4BUv4Cg6b3SB"

driver = "{IBM DB2 ODBC DRIVER}"

db = "bludb"

port = " 32459"

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 :

```
Select C:\Windows\System32\cmd.exe - python app.py
C:\Users\viva\Desktop\vp>python app.py
DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT= 32459;UID=wth08341;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=c8Xk4BUv4Cg6b3S8;
Unable to connect [IBM][CLI Driver] SQL1042C An unexpected system error occurred.  SQLSTATE=58004  SQLCODE=-1042
* 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=9938aec0-8105-433e-8bf9-0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT= 32459;UID=wth08341;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=c8Xk4BUv4Cg6b3S8;
Unable to connect [IBM][CLI Driver] SQL1042C An unexpected system error occurred.  SQLSTATE=58004  SQLCODE=-1042
* Debugger is active!
* Debugger PIN: 118-476-486
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

DATABASE LIST :

IBM Db2 on Cloud

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F7cc38d4e9e0544dba3dacc823b6ca...

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

WTH08341.USER

Export to CSV

USERNAME	EMAIL	PASSWORD	REPASSWORD
vilva praveen.s	vilvapraveen2@gmail.com	Vilva@1234	Vilva@1234