

## ASSIGNMENT 2

Assignment Date	18.11.2022
Student Name	yugesh
Student Roll Number	913019104030
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 = "ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
uid = "qfj91392"
```

```
pwd = "8a5MLKDKXLswbOn6"
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = "bludb"
```

```
port = " 31505"
```

```
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
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\live\Desktop\yugesh as2\yugesh as2>python app.py
DATABASE=bludb;HOSTNAME=ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kb1od8l1cg.databases.appdomain.cloud;PORT= 31505;UID=qfj91392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5MLKDXXLswbOn6;
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=ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kb1od8l1cg.databases.appdomain.cloud;PORT= 31505;UID=qfj91392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5MLKDXXLswbOn6;
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.HOME PAGE (Welcome page )

<html>

<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-  
oBqDVmMz9ATKxJle9tjCxs/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlhmh/jp3"  
crossorigin="anonymous"></script>

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js"
integrity="sha384-
IDwe1+LCz02ROU9k972gdvyl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9vxnk"
crossorigin="anonymous"></script>
```

```
</head>
```

```
<body>
```

```
<nav class="navbar navbar-expand-lg bg-light">
```

```
  <div class="container-fluid">
```

```
    <a class="navbar-brand" href="#">Navbar</a>
```

```
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
```

```
      <span class="navbar-toggler-icon"></span>
```

```
    </button>
```

```
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
```

```
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
```

```
        <li class="nav-item">
```

```
          <a class="nav-link active" aria-current="page" href="#">Home</a>
```

```
        </li>
```

```
      <li class="nav-item">
```

```
        <a class="nav-link" href="{{url_for('signin')}}">Signin</a>
```

```
      </li>
```

```
      <li class="nav-item">
```

```
        <a class="nav-link" href="{{url_for('signup')}}">Signup</a>
```

```
      </li>
```

```

</ul>

<form class="d-flex" role="search">

    <input class="form-control me-2" type="search" placeholder="Search" aria-
label="Search">

    <button class="btn btn-outline-success" type="submit">Search</button>

</form>

</div>

</div>

</nav>


<div class="container text-center">

<div class="row">

    <div class="col">


<h1 style="font-size:100px;">FLASK APPLICATION</H1>

    </div>

{% block content %}

    <div class="col">

<a href="{{url_for('signin')}}">

</a>

    </div>

</DIV>

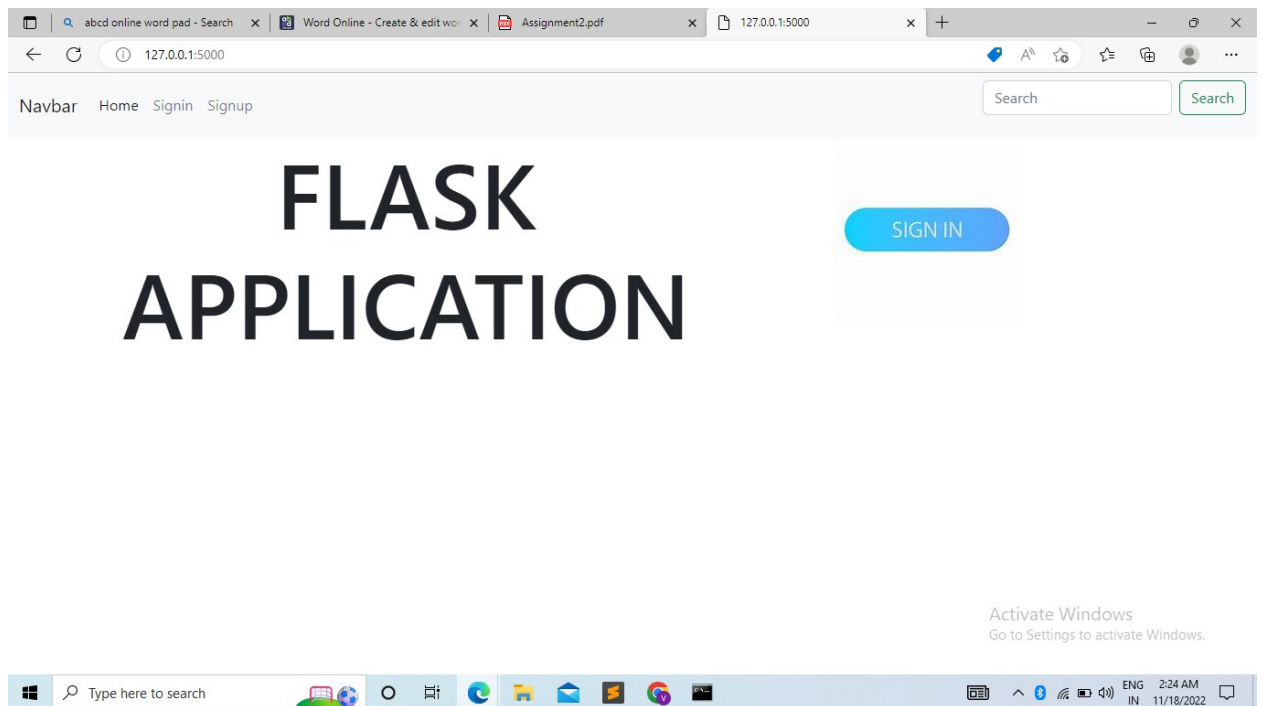
{% endblock %}


</body>


</html>

```

## 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-
oBqDVmMz9ATKxleP9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlhm/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 content %}
```

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

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

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

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

```
</div>
```

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

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

```
<input type="password" class="form-control" name="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>
```

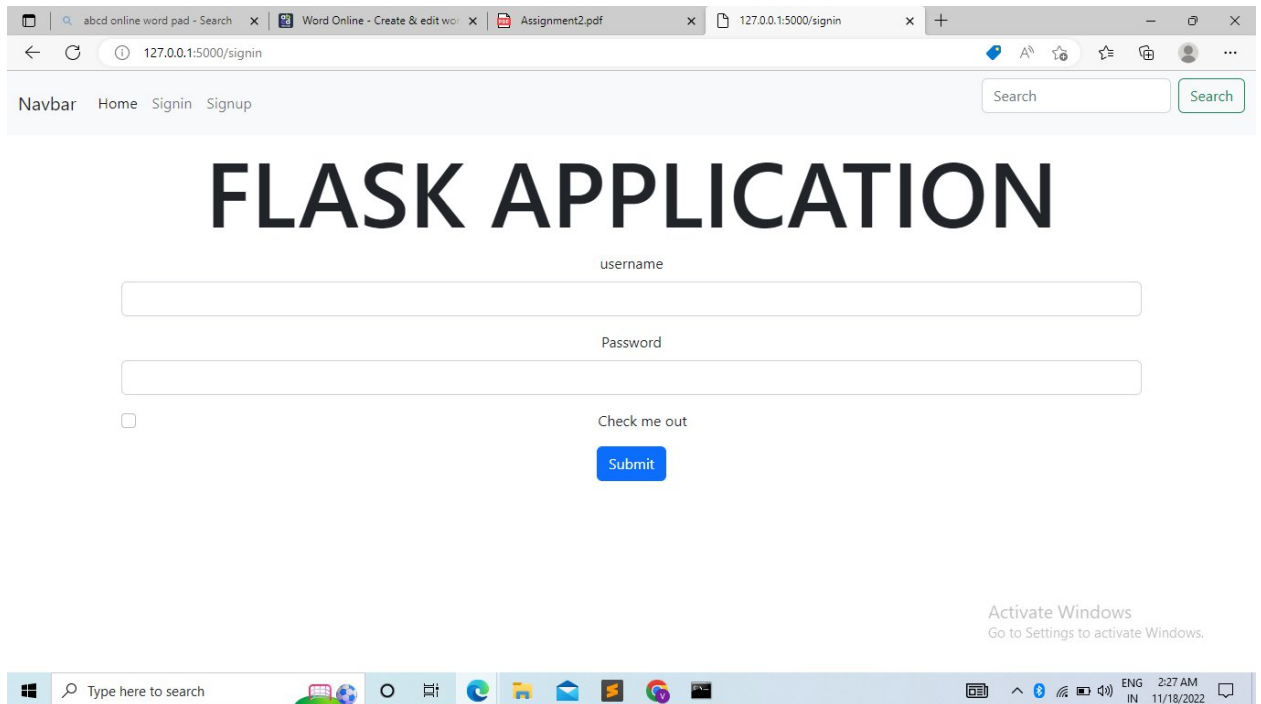
```
<button type="submit" class="btn btn-primary">Submit</button>
```

```
</form>
```

```
{{msg}}
```

```
{% endblock %}
```

## OUTPUT :



The screenshot shows a web browser window with the URL `127.0.0.1:5000/signin`. The browser's address bar and tabs are visible at the top. The page has a light blue header with a navigation bar containing links for `Navbar`, `Home`, `Signin`, and `Signup`. On the right side of the header, there is a search bar with the placeholder text "Search" and a green "Search" button. The main content area features a large, bold, black heading "FLASK APPLICATION". Below the heading, there is a form with two input fields: "username" and "Password". The "Password" field is currently empty and has a small eye icon to its right. Below the "Password" field, there is a checkbox and the text "Check me out". A blue "Submit" button is positioned below the "Check me out" text. At the bottom right of the page, there is a small "Activate Windows" watermark with the text "Go to Settings to activate Windows." The Windows taskbar is visible at the very bottom of the screen, showing the search bar, task view button, and several application icons.

## 5.SIGN UP PAGE

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

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

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

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

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

```
<input type="username" name="username" class="form-control"
id="exampleInputPassword1">
```

```
</div>
```

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

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

  <input type="email" name="email" class="form-control" 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"
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>

</form>
```

```
{{msg}}
```

```
{% endblock %}
```

## OUTPUT :

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/signup'. The browser tabs include 'abcd online word pad - Search', 'Word Online - Create & edit wor...', 'Assignment2.pdf', and '127.0.0.1:5000/signup'. The page has a navigation bar with links for 'Navbar', 'Home', 'Signin', and 'Signup', along with search bars. The main heading is 'FLASK APPLICATION'. Below it are input fields for 'Username', 'Email address', and 'Password'. A checkbox labeled 'Check me out' is present, followed by a blue 'Submit' button. A small text note states 'We'll never share your email with anyone else.' At the bottom right, there is a Windows activation watermark. The Windows taskbar at the bottom shows the search bar, task view, and several application icons, with the system clock indicating 2:28 AM on 11/18/2022.

## 5.DATABASE CONNECTIVITY :

```
import ibm_db
```

```
hostname = "ea286ace-86c7-4d5b-8580-  
3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
uid = "qfj91392"
```

```
pwd = "8a5MLKDKXLswbOn6"
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = "bludb"
```

```
port = " 31505"
```

```
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)

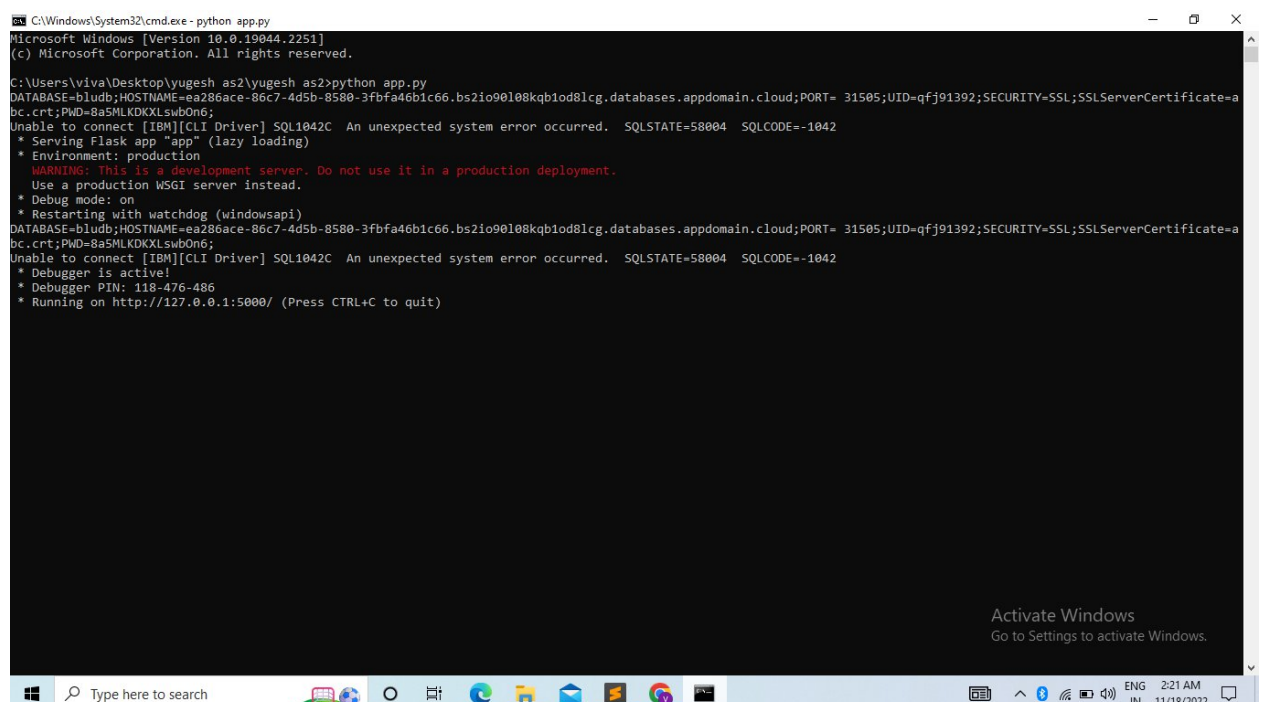
try:
    db2 = ibm_db.connect(dsn, "", "")

    print("Connected to data base")

except:
    print("Unable to connect", ibm_db.conn_errormsg())

```

## OUTPUT :



```

C:\Windows\System32\cmd.exe - python app.py
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\viva\Desktop\yugesh as2\yugesh as2>python app.py
DATABASE=bludb;HOSTNAME=ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kqb1od8l1cg.databases.appdomain.cloud;PORT= 31505;UID=qfj91392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5MLKDKXLSwbOn6;
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=ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kqb1od8l1cg.databases.appdomain.cloud;PORT= 31505;UID=qfj91392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5MLKDKXLSwbOn6;
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)

```

IBM Db2 on Cloud

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

WTH08341.USER

Back

Export to CSV

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