

Assignment - 2

Assignment Date	31 October 2022
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Maximum Marks	2 Marks

Question:

1. Create a Flask App
2. Add the Home page, About Page
3. Add the Bootstrap
4. Add the Sign in page and App the Signup Page + database connectivity

Output:

App.py

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

app = Flask(__name__)
app.config['DEBUG'] = True
db_connection = ibm_db.connect(
    "DATABASE=bludb;QUERYTIMEOUT=1;CONNECTTIMEOUT=10;HOSTNAME=19af6446-6171-4641-8aba-9dcff8e1b6ff.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=SSL;SSLServerCertificate=../DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=gy124444;PWD=0Rnf d15Y263ASIW7", "", "")

@app.route("/", methods=["GET", "POST"])
def register():
    if request.method == 'POST':
        data = request.form.to_dict()
        print(data)
        sql_query = f"INSERT INTO User (username, email, roll_no, password) VALUES('{data['username']}', '{data['email']}', '{data['roll_no']}', '{data['password']}')"
        ibm_db.exec_immediate(db_connection, sql_query)
        return redirect(url_for("login"))
    if request.method == "GET":
        return render_template("registration.html")
```

```

@app.route("/login", methods=["GET", "POST"])
def login():
    if request.method == 'POST':
        data = request.form.to_dict()
        sql_query = f"SELECT password from User WHERE username = '{data['username']}'"
        result = ibm_db.exec_immediate(db_connection, sql_query)
        value = ibm_db.fetch_tuple(result)
        if value[0] == data["password"]:
            return redirect(url_for("welcome"))
        else:
            return "<p style=color:red;>Invalid Credentials</p>"
    if request.method == "GET":
        return render_template("login.html")

@app.route("/welcome", methods=["GET"])
def welcome():
    return "<h1 style=color:green;>Welcome!!!!</h1>"

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

```

Signin.html:

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Registration Form</title>
    <link rel="stylesheet" href="{{ url_for('static', filename='registration.css') }}">
</head>
<body>
    <form method="POST" action="{{url_for('login')}}">
        <div class="container">
            <input name="username" placeholder="Username" type="text" />
            <br />
            <input name="password" placeholder="Password" type="password" />
            <br />
            <button type="submit">Login</button>
        </div>
    </form>
</body>
</html>

```

Signup.html:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Registration Form</title>
  <link rel="stylesheet" href="{{ url_for('static', filename='registration.css')
  }}">
</head>

<body>
  <form method="POST" action="{{url_for('register')}}">
    <div class="container">
      <br />
      <input name="username" placeholder="Username" type="text" />
      <br />
      <input name="email" placeholder="example@abc.com" type="email" />
      <br />
      <input name="roll_no" placeholder="Roll number" type="text" />
      <br />
      <input name="password" placeholder="Password" type="password" />
      <br />
      <button type="submit">Register</button>
    </div>
  </form>
</body>

</html>
```

Style.css:

```
@import
url('https://fonts.googleapis.com/css?family=Montserrat:400,500&display=swap');
body {
  font-family: Montserrat,Arial, Helvetica, sans-serif;
  background-color:#f7f7f7;
}
* {box-sizing: border-box}

.container {
  padding: 20px;
  width:500px;
  position: absolute;
  left: 50%;
```

```

    top: 50%;
    transform: translate(-50%, -50%);
    border: 1px solid #ccc;
    border-radius: 10px;
    background: white;
    -webkit-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
    -moz-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
    box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
}

input[type=text], input[type=email], input[type=password] {
    width: 100%;
    padding: 15px;
    margin: 5px 0 22px 0;
    display: inline-block;
    border: none;
    background: #f7f7f7;
    font-family: Montserrat,Arial, Helvetica, sans-serif;
}

input[type=text]:focus, input[type=password]:focus, input[type=phone]:focus,
select:focus {
    background-color: #ddd;
    outline: none;
}

button {
    background-color: #0eb7f4;
    color: white;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 100%;
    opacity: 0.9;
    font-size: 16px;
    font-family: Montserrat,Arial, Helvetica, sans-serif;
    border-radius: 10px;
}

button:hover {
    opacity: 1;
}

@media screen and (max-width: 300px) {
    .signupbtn {
        width: 100%;
    }
}

```

Database connectivity:

IBM Cloud

Search resources and products...

Catalog

Manage

Vishnu R's Account

?

Db2

A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.

Create

About

Type

Service

Provider

IBM

Last updated

07/06/2022

Category

Databases

Compliance

EU Supported

HIPAA Enabled

IAM-enabled

Location

Sydney

Frankfurt

London

Dallas

Sao Paulo

Toronto

Tokyo

Milan 01

Montreal 01

Select a location

Dallas (us-south)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [India](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone. Lite plan services are deleted after 30 days of inactivity.	Free

Summary

Db2

Free

Location: Dallas

Plan: Lite

Service name: Db2-ej

Resource group: Default

This paid plan cannot be added to an IBM Cloud trial account.

You can add a credit card to create a Pay-As-You-Go account. If a free plan for this service is available, you can choose to add it.

I have read and agree to the following license agreements:

Terms

Upgrade

Add to estimate

IBM Cloud

Search resources and products...

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Manage

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Resource list /

Db2-54

Active

Add tags

Details

Actions...

Manage

Getting started

Service credentials

Connections

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...

New credential

Key name	Date created
Service credentials-1	2022-10-29 5:58 PM

```
{
  "connection": {
    "cli": {
      "arguments": [
        "-u",
        "gyl24444",
        "-p",
        "0Rnfd15Y263ASIW7",
        "--ssl",
        "--sslCAFile",
        "1cbbb1b6-3a1a-4d49-9262-3102a8f7a7c8",
        "--authenticationDatabase",
        "admin",
        "--host",
        "19af6446-6171-4641-8aba-9dc1f8e1b6ff.clogj3sd0tgtu0lqde00.databases.appdomain.cloud:30699"
      ]
    },
    "bin": "db2",
    "certificate": {
      "key": "-----BEGIN PRIVATE KEY-----
MIIEvgIBADANBgkqhkiG9w0BAQEFAASCAmEwggEiAgEAAQEA
-----END PRIVATE KEY-----"
    }
  }
}
```