Assignment -2
HTML& CSS Development

Assignment Date	02 November 2022
Student Name	S S V K Sahit
Student Roll Number	412519106156
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

Solution:

1. Create a Flask App

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

app = Flask(__name__)
app.debug=True

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32733;SECURITY
=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mzw99208;PWD=X5OCas8TwAs
NxiZ9",'','')
print(conn)
@app.route("/")
def index():
    return render_template("index.html")

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

@app.route("/signup", methods=('GET', 'POST'))
def signup():
    if request.method == 'POST':
        name = request.form['name']
        email = request.form['email']
        mobile = request.form['mobile']
        password = request.form['password']

        sql = "SELECT * FROM customers WHERE name =? and email=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,name)
        ibm_db.bind_param(stmt,2,email)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
```

```python
        if account:
            return "<h1>Already Registered.....</h1><br><h3>Please Login using
Login page...</h3>"
        else:
            insert_sql = "INSERT INTO customers VALUES (?,?,?,?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt, 1, name)
            ibm_db.bind_param(prep_stmt, 2, email)
            ibm_db.bind_param(prep_stmt, 3, mobile)
            ibm_db.bind_param(prep_stmt, 4, password)
            ibm_db.execute(prep_stmt)
            return "<h1>Registration successful....</h1><br><h3>Please Login
using Login page...</h3>"

    return render_template('signup.html')

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

@app.route("/signin" , methods=('GET', 'POST'))
def signin():
    if request.method == 'POST':
        login_email = request.form['email']
        login_password = request.form['password']

        sql = "SELECT * FROM customers WHERE email =? and password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,login_email)
        ibm_db.bind_param(stmt,2,login_password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)

        if account:
            return "<h1>Login successful....</h1><br><h3>Welcome To Flask
Programming...</h3>"
        else:
            return "<h1>Login Failed....</h1><br><h3>Please Login valid
Credintials...</h3><br><br><h1>New User? SignUp using signup page</h1>"
    return render_template('signin.html')

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

2. Add the Home page, About Page using bootstrap

Home page:

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

{% block head %}
    <title>
        Home
    </title>
{% endblock %}

{% block body %}
    <div class="shadow p-3 mb-5 bg-body rounded"><h1 style="text-
align:center;">IBM Naliya Thiran</h1><br><h3 style="text-align:center;">Skill
and Job Recommender </h3></div>
{% endblock %}
```

About page:

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

{% block head %}
    <title>
        About
    </title>
{% endblock %}

{% block body %}
    <div class="shadow p-3 mb-5 bg-body rounded"><h1 style="text-
align:center;">Assignment -2</h1><br><h3 style="text-align:center;">Flask
Application</h3></div>
{% endblock %}
```

3. Sign in page

```
% extends "index.html" %}

{% block head %}
    <title>
        Signin
    </title>
{% endblock %}

{% block body %}
<br><br>
<div class="container shadow-lg p-3 mb-5 bg-body rounded w-25 p-3 mx-auto
shadow-lg p-3 mb-5 bg-body rounded ">
    <br>
    <form class="row g-3 needs-validation" novalidate action = "{{
url_for('signin') }}" method = "POST">
        <div class="form-outline mb-4">
            <label class="form-label" for="email">Email address</label>
```

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

        <div class="form-outline mb-4">
            <label class="form-label" for="password">Password</label>
            <input type="password" name="password" class="form-control" />
        </div>

        <div class="col-12">
            <button class="btn btn-primary" type="submit">Login</button>
        </div>

    </form>
  </div>

  <script>
    (() => {
        'use strict'
        const forms = document.querySelectorAll('.needs-validation')
        Array.from(forms).forEach(form => {
          form.addEventListener('submit', event => {
            if (!form.checkValidity()) {
              event.preventDefault()
              event.stopPropagation()
            }
            form.classList.add('was-validated')
          }, false)
        })
      })()
  </script>
{% endblock %}
```
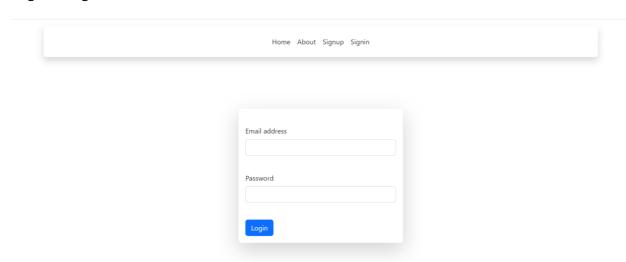
4. Signup Page

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

{% block head %}
    <title>
        Signup
    </title>
{% endblock %}

{% block body %}
<br>
<div class="container shadow-lg p-3 mb-5 bg-body rounded w-25 p-3 mx-auto
shadow-lg p-3 mb-5 bg-body rounded ">
    <form class="row g-3 needs-validation" novalidate action = "{{
url_for('signup') }}" method = "POST">

        <div class="form-outline mb-4">
            <label class="form-label" for="name">Name</label>
            <input type="text" name="name" class="form-control" />
```

```html
        </div>

        <div class="form-outline mb-4">
            <label class="form-label" for="email">Email address</label>
          <input type="email" name="email" class="form-control" />
        </div>

        <div class="form-outline mb-4">
            <label class="form-label" for="mobile">Mobile</label>
          <input type="text" name="mobile" class="form-control" />
        </div>

        <div class="form-outline mb-4">
            <label class="form-label" for="password">Password</label>
          <input type="password" name="password" class="form-control" />
        </div>

        <div class="col-12">
            <button class="btn btn-primary" type="submit">Signup</button>
        </div>

        </div>
    </form>
  </div>

  <script>
      (() => {
          'use strict'
          const forms = document.querySelectorAll('.needs-validation')
          Array.from(forms).forEach(form => {
            form.addEventListener('submit', event => {
              if (!form.checkValidity()) {
                event.preventDefault()
                event.stopPropagation()
              }
              form.classList.add('was-validated')
            }, false)
          })
      })()
  </script>
{% endblock %}
```

Output:

Home About Signup Signin

Home About Signup Signin

IBM Naliya Thiran

Skill and Job Recommender

Home page

About page:

Home About Signup Signin

Assignment -2

Flask Application

Signup page:

Home About Signup Signin

Name

Email address

Mobile

Password

Signup

Signin Page:

Home   About   Signup   Signin

Email address

Password

Login

Database connectivity:

IBM **Db2 on Cloud**

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

Find schemas or tables

Refresh

Tables

New table   +

	Name ▾	Schema	Properties
☐	CUSTOMERS	MZW99208	...
☐	STUDENTS	MZW99208	...

Total: 2, selected: 0

Table definition

CUSTOMERS

No statistics available

Name	Data type	Nullable	Length	Scale	
NAME	VARCHAR	Y	255	0	👁
EMAIL	VARCHAR	Y	255	0	👁
MOBILE	VARCHAR	Y	255	0	👁
PASSWORD	VARCHAR	Y	255	0	👁

View data

MZW99208.CUSTOMERS

Back

Export to CSV ⤓

NAME	EMAIL	MOBILE	PASSWORD
sahith	sahith12@gmail.com	9786765467	asdffsgf
sahith	sahith@gmail.com	9786765467	sahith123