

ASSIGNMENT – 2

IBM CLOUD DB2

Assignment Date	29 September 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 and Add the signup page + database connectivity.

add_profile.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Add Profile</title>
</head>
<body style="background-image:url('Social-Fashion-Application-1.jpg');
background-attachment: fixed; background-repeat:no-repeat;background-position:
right;">
  <>
  <h1>Profile form</h1>
  <form action="/add" method="POST">
    </centre><label>First Name</label>
    <input type="text" name="first_name" placeholder="first name...">
    <br><br>
    <label>Last Name</label>
    <input type="text" name="last_name" placeholder="last name...">
    <br><br>
    <label>Email Id</label>
    <input type="email" name="username" placeholder="username@gmail.com">
    <br><br>
    <label>Password</label>
    <input type="password" name="password" placeholder="minimum 8
characters long" >
    <br><br>
    <label>Age</label>
    <input type="number" name="age" placeholder="age..">
```

```

        <br><br>
        <button type="submit">Add</button>
    </form>
</center>
</body>
</html>

```

Index.html

```

<!DOCTYPE html>
<html>
<head>
    <title>Index Page</title>
</head>
<body>
    <h3>Profiles</h3>
    <a href="/add_data">ADD</a>
    <br>
    <table>
        <thead>
            <th>Id</th>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Email Id</th>
            <th>Password</th>
            <th>Age</th>
            <th>#</th>
        </thead>
        {% for data in profiles %}
        <tbody>
            <td>{{data.id}}</td>
            <td>{{data.first_name}}</td>
            <td>{{data.last_name}}</td>
            <td>{{data.email_id}}</td>
            <td>{{data.password}}</td>
            <td>{{data.age}}</td>
            <td><a href="/delete/{{data.id}}" type="button">Delete</a></td>
        </tbody>
        {% endfor %}
    </table>
</body>
</html>

```

About.html

```
{% extends "base.html" %}
{% block head %}
    <title>about page</title>
{% endblock %}

{% block content %}
<div class="profile-card text-center shadow bg-light p-4 my-5 rounded-3" style="transition: 0.5s;">
    <div class="profile-photo shadow">
        
    </div>
    <h3 class="pt-3 text-dark">ABOUT</h3>
    <p class="text-secondary">FASHION CATEGORY</p>
    <div class="social-links">
        <ul>
            <li><i>Salwars</i></li>
            <li><i>western dress</i></li>
            <li><i>Traditional dress</i></li>
            <li><i>Night suits</i></a></li>
        </ul>
    </div>
</div>
{% endblock %}
```

Base.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>How To Create Navbar Menu Hover Effects With Simple CSS Transition</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384-
IQsoLX15PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384-
cVKIPhGWiC2Al4u+LWgxfKTRICfu0JtXr+EQDz/bglDoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>
```

```

    <link rel="stylesheet"
href="{{url_for('static',filename='css/about.css')}}">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspD3yD65VohhpUuCOmLASjC"
crossorigin="anonymous">
    {% block head %}{% endblock %}
</head>
<body>

    <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container-fluid">
        <a class="navbar-brand" href="/home.html">Home</a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-
expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
            <div class="navbar-nav">
                <a class="nav-link active" aria-current="page"
href="/about.html">About</a>
                <a class="nav-link" href="/signup.html">Sign Up</a>
                <a class="nav-link" href="/signin.html">Sign In</a>
            </div>
        </div>
    </div>
</nav>

    <div class="container">
        {% block body %}{% endblock %}
    </div>

</body>
</html>

```

Signin.html

```

{% extends "base.html" %}
{% block head %}
    <title>Sign In</title>
{% endblock %}
{% block content %}
<div class="container mt-5">
    <div class="row">
        <div class="col-md-6 offset-md-3">

```

```

        <div class="mb-3">
            <h3>Login Form</h3>
        </div>
        <form accept="" class="shadow p-4">
            <div class="mb-3">
                <label for="username">Email/Username</label>
                <input type="email" class="form-control" name="username"
id="username" placeholder="Username">
            </div>

            <div class="mb-3">
                <label for="Password">Password</label>
                <input type="password" class="form-control"
name="password" id="Password" placeholder="Password">
            </div>

            <label class="mb-3">
                <input type="checkbox" name="RememberMe"> Remember Me
            </label>

            <a href="#" class="float-end text-decoration-none">Reset
Password</a>

            <div class="mb-3">
                <button type="submit" class="btn btn-
primary">Login</button>
            </div>

            <hr>

            <p class="text-center mb-0">If you have not account <a
href="#">Register Now</a></p>

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

```

Signup.html

```

{% extends "base.html" %}
{% block head %}
    <title>Sign Up</title>
{% endblock %}
{% block content %}

```

```

<div class="container">
  <div class="row">
    <div class="col-md-6 offset-md-3">
      <div class="signup-form">
        <form action="" class="mt-5 border p-4 bg-light shadow">
          <h4 class="mb-5 text-secondary">Create Your Account</h4>
          <div class="row">
            <div class="mb-3 col-md-6">
              <label>First Name<span class="text-
danger">*</span></label>
              <input type="text" name="fname" class="form-
control" placeholder="Enter First Name">
            </div>
            <div class="mb-3 col-md-6">
              <label>Last Name<span class="text-
danger">*</span></label>
              <input type="text" name="lname" class="form-
control" placeholder="Enter Last Name">
            </div>
            <div class="mb-3 col-md-12">
              <label>Password<span class="text-
danger">*</span></label>
              <input type="password" name="password"
class="form-control" placeholder="Enter Password">
            </div>
            <div class="mb-3 col-md-12">
              <label>Confirm Password<span class="text-
danger">*</span></label>
              <input type="password" name="confirmpassword"
class="form-control" placeholder="Confirm Password">
            </div>
            <div class="col-md-12">
              <button class="btn btn-primary float-end">Signup
Now</button>
            </div>
          </div>
        </form>
        <p class="text-center mt-3 text-secondary">If you have
account, Please <a href="#">Login Now</a></p>
      </div>
    </div>
  </div>
</div>
{% endblock %}

```

app.py

```
from flask import Flask, request, redirect
from flask.templating import render_template
from flask_sqlalchemy import SQLAlchemy
from flask_migrate import Migrate, migrate

app = Flask(__name__)
app.debug = True

# adding configuration for using a sqlite database
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///site.db'

# Creating an SQLAlchemy instance
db = SQLAlchemy(app)

# Settings for migrations
migrate = Migrate(app, db)

# Models
class Profile(db.Model):
    # Id : Field which stores unique id for every row in
    # database table.
    # first_name: Used to store the first name if the user
    # last_name: Used to store last name of the user
    # Age: Used to store the age of the user
    id = db.Column(db.Integer, primary_key=True)
    first_name = db.Column(db.String(20), unique=False, nullable=False)
    last_name = db.Column(db.String(20), unique=False, nullable=False)
    email_id = db.Column(db.String(50), unique=False, nullable=False)
    password = db.Column(db.String(20), unique=False, nullable=False)
    age = db.Column(db.Integer, nullable=False)

    # repr method represents how one object of this datatable
    # will look like
    def __repr__(self):
        return f>Name : {self.first_name}, Age: {self.age}"

# function to render index page
@app.route('/')
def index():
    profiles = Profile.query.all()
    return render_template('index.html', profiles=profiles)

@app.route('/add_data')
```

```

def add_data():
    return render_template('add_profile.html')

# function to add profiles
@app.route('/add', methods=["POST"])
def profile():
    # In this function we will input data from the
    # form page and store it in our database. Remember
    # that inside the get the name should exactly be the same
    # as that in the html input fields
    first_name = request.form.get("first_name")
    last_name = request.form.get("last_name")
    email_id = request.form.get("email_id")
    password = request.form.get("password")
    age = request.form.get("age")

    # create an object of the Profile class of models and
    # store data as a row in our datatable
    if first_name != '' and last_name != '' and age is not None:
        p = Profile(first_name=first_name, last_name=last_name, age=age)
        db.session.add(p)
        db.session.commit()
        return redirect('/')
    else:
        return redirect('/')

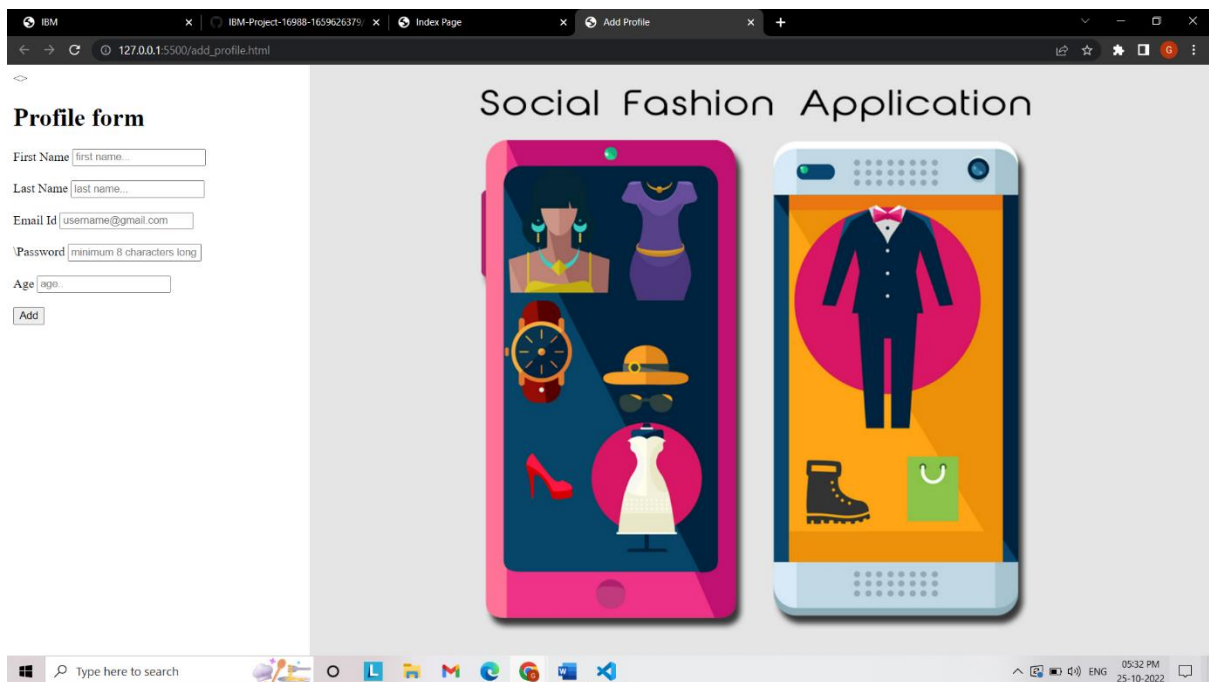
@app.route('/delete/<int:id>')
def erase(id):

    # deletes the data on the basis of unique id and
    # directs to home page
    data = Profile.query.get(id)
    db.session.delete(data)
    db.session.commit()
    return redirect('/')

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

```


OUTPUT :



DATABASE TABLE :

The screenshot shows the IBM Db2 on Cloud console. The table "DTP46044.USERS" is displayed. The table has three columns: USERNAME, EMAIL, and PASSWORD. The data is as follows:

USERNAME	EMAIL	PASSWORD
Parameshwaran	parameshvk3232@gmail.com	123432