

Assignment -2
Flask Application

Assignment Date	19 September 2022
Student Name	Gokulakrishnan G K
Student Roll Number	61772021T302
Maximum Marks	2 Marks

Question-1:

Create a Flask App
Add the Home page, About Page
Add the Bootstrap
Add the Sign in page and Add the Signup Page with
database connectivity

Solution:

App.py

```
from flask import Flask, render_template,request,flash,redirect,url_for,session
import sqlite3

app = Flask(__name__)
app.secret_key="123"

con=sqlite3.connect("database.db")
con.execute("create table if not exists customer(pid integer primary key,name text,address
text,contact integer,mail text)")
con.close()

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

@app.route('/login',methods=["GET","POST"])
def login():
    if request.method=='POST':
        name=request.form['name']
        password=request.form['password']
        con=sqlite3.connect("database.db")
        con.row_factory=sqlite3.Row
        cur=con.cursor()
        cur.execute("select * from customer where name=? and mail=?",(name,password))
        data=cur.fetchone()

    if data:
```

```

        session["name"]=data["name"]
        session["mail"]=data["mail"]
        return redirect("customer")
    else:
        flash("Username and Password Mismatch","danger")
    return redirect(url_for("index"))

@app.route('/customer',methods=["GET","POST"])
def customer():
    return render_template("customer.html")

@app.route('/register',methods=['GET','POST'])
def register():
    if request.method=='POST':
        try:
            name=request.form['name']
            address=request.form['address']
            contact=request.form['contact']
            mail=request.form['mail']
            con=sqlite3.connect("database.db")
            cur=con.cursor()
            cur.execute("insert into
customer(name,address,contact,mail)values(?,?,?,?)",(name,address,contact,mail))
            con.commit()
            flash("Record Added Successfully","success")
        except:
            flash("Error in Insert Operation","danger")
        finally:
            return redirect(url_for("index"))
            con.close()

    return render_template('register.html')

@app.route('/logout')
def logout():
    session.clear()
    return redirect(url_for("index"))

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

```

Customer.html

```

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

```

```

<head>
  <meta charset="UTF-8">
  <title>Customer Page</title>
  <link rel="stylesheet" href="{{url_for('static',filename='css/bootstrap.min.css')}}">
  <link rel="stylesheet" href="{{url_for('static',filename='myfont/css/all.min.css')}}">
  <script src="{{url_for('static',filename='js/jquery.min.js')}}"></script>
</head>
<body>
  <div class="container">
    <div class="col-md-offset-3 col-md-5">
      <h2 class="page-header text-primary text-center">Customer Page</h2>
      <h3 class="text-success">Welcome : {{session["name"]}}</h3>
      <hr>
      <a href="{{url_for('logout')}}" class="btn btn-primary btn-block">Logout</a>
    </div>
  </div>
</body>
</html>

```

Intex.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Index</title>
  <link rel="stylesheet" href="{{url_for('static',filename='css/bootstrap.min.css')}}">
  <link rel="stylesheet" href="{{url_for('static',filename='myfont/css/all.min.css')}}">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
  <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>
  <script src="{{url_for('static',filename='js/jquery.min.js')}}"></script>
  <style>
    .shadow{
      box-shadow:3px 3px 10px black;
      padding:30px;
    }
  </style>
</head>
<body>
  <p style="text-align: center; margin-top: 20px; font-size: 35px;" >Welcome!</p>
  <div class="container" style="margin-top:100px">
    <div class="col-md-offset-1 col-md-10" >

```

```

<div class="col-md-offset-3 col-md-5">
  <div class="shadow">
    <form action="/login" method="POST" autocomplete="off">
      <h3 class="page-header text-primary">Login</h3>

      {% with messages = get_flashed_messages(with_categories=true) %}
      {% if messages %}
        {% for category,message in messages %}
          <div class="alert alert-{{category}}">{{message}}</div>
        {% endfor %}
      {% endif %}
      {% endwith %}

      <div class="form-group">
        <label>Username</label>
        <input type="text" name="name" class="form-control" required>
      </div>
      <div class="form-group">
        <label>Password</label>
        <input type="password" name="password" class="form-control" required>
      </div>
      <div class="form-group">
        <input type="submit" value="Login" class="btn btn-success btn-block">
        <a href="{{url_for('register')}}" class="btn btn-primary btn-block">Register</a>
      </div>
    </form>
  </div>
</div>
</div>
</body>
</html>
<script>
  $(document).ready(function(){
    $(".alert").hide(3000)
  });
</script>

```

Register.html

```

<html>
<head>
  <title>Registration</title>
  <link rel="stylesheet" href="{{url_for('static',filename='css/bootstrap.min.css')}}">
  <link rel="stylesheet" href="{{url_for('static',filename='myfont/css/all.min.css')}}">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"

```

```
integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
  <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>
  <script src="{{url_for('static',filename='js/jquery.min.js')}}"></script>
  <style>
    .shadow{
      box-shadow:3px 3px 10px black;
      padding:30px;
    }
  </style>
</head>
<body>
  <div class="container" style="margin-top:100px">
    <div class="col-md-offset-3 col-md-5">
      <div class="shadow">
        <form method="POST" action="/register">
          <h2 class="page-header text-primary text-center">Registration</h2>
          <div class="form-group">
            <label>Name</label>
            <input type="text" class="form-control" name="name" required>
          </div>
          <div class="form-group">
            <label>Address</label>
            <textarea class="form-control" name="address" required></textarea>
          </div>
          <div class="form-group">
            <label>Contact</label>
            <input type="text" class="form-control" name="contact" required>
          </div>
          <div class="form-group">
            <label>Mail</label>
            <input type="text" class="form-control" name="mail" required>
          </div>
          <div class="form-group">
            <input type="submit" class="btn btn-success btn-block" value="Register">
            <a href="{{url_for('index')}}" class="btn btn-primary btn-block">Back to Home</a>
          </div>
        </form>
      </div>
    </div>
  </div>
</body>
</html>
```

