

Assignment - 2

Flask Application

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

1. Create a Flask App
2. Add the Home page, About Page
3. Add the Bootstrap
4. Add the Sign in page and add the Signup Page with database connectivity
5. Use IBM Db2 as Database

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('/customer', methods=['GET','POST'])
def customer():
    return render_template('customer.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('/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:
            con.close()
            return redirect(url_for("index"))

    return render_template('register.html')

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

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

```

[Index.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')}}">
  <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-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
(SQLite)</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="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>

```

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>

```

Output:



