#### 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,contac
t,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)
```

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <title>Index</title>
    <link rel="stylesheet"</pre>
href="{{url_for('static',filename='css/bootstrap.min.css')}}">
    <link rel="stylesheet"</pre>
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-</pre>
control" required>
                     </div>
                     <div class="form-group">
                         <label>Password</label>
                         <input type="password" name="password"</pre>
class="form-control" required>
                     </div>
                     <div class="form-group">
```

```
<input type="submit" value="Login" class="btn</pre>
btn-success btn-block">
                          <a href="{{url_for('register')}}" class="btn</pre>
btn-primary btn-block">Register</a>
                     </div>
                 </form>
                     </div>
             </div>
        </div>
    </div>
</body>
</html>
<script>
    $(document).ready(function(){
        $(".alert").hide(3500)
    });
</script>
```

### Register.html:

```
<html>
    <title>Registration</title>
    <link rel="stylesheet"</pre>
href="{{url_for('static',filename='css/bootstrap.min.css')}}">
    <link rel="stylesheet"</pre>
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-3 col-md-5">
            <div class="shadow">
                 <form method="POST" action="/register">
                     <h2 class="page-header text-primary text-</pre>
center">Registration</h2>
                    <div class="form-group">
                        <label>Name</label>
```

```
<input type="text" class="form-control"</pre>
name="name" required>
                     </div>
                      <div class="form-group">
                          <label>Address</label>
                          <textarea class="form-control" name="address"</pre>
required></textarea>
                      </div>
                     <div class="form-group">
                          <label>Contact</label>
                          <input type="text" class="form-control"</pre>
name="contact" required>
                     </div>
                     <div class="form-group">
                          <label>Mail</label>
                          <input type="text" class="form-control"</pre>
name="mail" required>
                     </div>
                      <div class="form-group">
                          <input type="submit" class="btn btn-success btn-</pre>
block" value="Register">
                          <a href="{{url_for('index')}}" class="btn btn-</pre>
primary btn-block">Back to Home</a>
                     </div>
                 </form>
            </div>
        </div>
</body>
</html>
```

#### Customer.html:

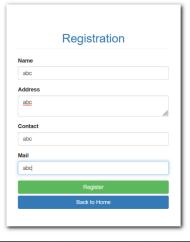
# **Output:**















# **Customer Page**

Welcome : abc

Logout

