## Assignment-2

PythonProgramming

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| --- | --- |
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Question1.

Createregistrationpageinhtmlwithusername,emailandphonenumberandbyusingPOSTmethoddisplay itinnexthtmlpage.

Program:

## Registration\_form.html

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Registration form</title>

</head>

<body>

<center>

<form action="{{ url\_for("register")}}" method="post"> Name : <input type="text" name="user"><br><br> Email id : <input type="text" name="email"><br><br>

Phone Number : <input type="text" name="phone"><br><br>

<input type="submit" value="Submit"><br>

</form>

</center>

</body>

</html>

## app.py:

from flask import Flask, request, render\_template app = Flask( name )

@app.route('/', methods =["GET", "POST"])

def register():

if request.method == "POST":

name = request.form.get("user") email =request.form.get("email") phone = request.form.get("phone")

return "Name is : " + name + ", Email is : " + email + ", Mobile Number is : "+ phone

return render\_template("register.html")

if name ==' main ':

app.debug=True app.run()

Question2.

Developaflaskprogramwhichshouldcontainatleast5packagesusedfrompypi.org

## base.html:

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

{% block head %} {% endblock %}

<link href="[https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css](https://cdn.jsdelivr.net/npm/bootstrap%405.2.1/dist/css/bootstrap.min.css)"

rel="stylesheet" integrity="sha384- iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT" crossorigin="anonymous">

<script src="[https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js](https://cdn.jsdelivr.net/npm/bootstrap%405.2.1/dist/js/bootstrap.bundle.min.js) "

integrity="sha384- u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOOmMi466C8" crossorigin="anonymous">

</script>

</head>

<body>

<a href="/">HOME</a>

<a href="/Blog">BLOG</a>

<a href="/Signin">SIGN IN</a>

<a href="/Signup">SIGN UP</a>

<hr><br>

<div class="container">

{% block body %} {% endblock %}

</div>

</body>

</html>

## blog.html:

{% extends 'base.html' %}

{% block head %}

<title>Blog Page</title>

{% endblock %}

{% block body %}

<h1>This is Samle Blog</h1>

<h2><p>Hello, from Mr.X</p></h2>

{% endblock %}

## index.html:

{% extends 'base.html' %}

{% block head %}

<title>Home Page</title>

{% endblock %}

{% block body %}

<h1>Hello everyone,</h1>

<div class="p-5 mb-4 bg-light rounded-3">

<div class="container-fluid py-5">

<h1 class="dispay-5 fw-bold">WIFI TECHNOLOGY<h1>

<p class="col-md-8 fs-4"> Wi-Fi is a wireless networking technology that allows

devices such as computers (laptops and desktops), mobile devices (smart phones

and wearables), and other equipment (printers and video cameras) to interface with

the Internet.

</p>

</div>

</div>

{% endblock %}

## signup.html:

{% extends 'base.html' %}

{% block head %}

<title>Signup Page</title>

{% endblock %}

{% block body %}

<h1>Signup Page</h1>

<form action="Signup" method="POST">

<label>Name</label><br>

<input type="text" name="name"><br><br>

<label>Email</label><br>

<input type="email" name="email"><br><br>

<label>Phone</label><br>

<input type="text" name="phone"><br><br>

<label>Password</label><br>

<input type="password" name="name"><br><br>

<label>Retype Password</label><br>

<input type="password" name="name"><br><br><br>

<input type="submit" class="btn btn-primary">

</form>

{% endblock %}

## signin.html:

{% extends 'base.html' %}

{% block head %}

<title>Signin Page</title>

{% endblock %}

{% block body %}

<h1>Signin Page</h1>

<form action="/Signin" method="POST">

<label>Email</label><br>

<input type="email" name="email"><br><br>

<label>password</label><br>

<input type="password" name="name"><br><br>

<input type="submit" class="btn btn-primary">

</form>

{% endblock %}

## app.py:

from flask import Flask, render\_template app = Flask( name)

@app.route('/', methods =["GET", "POST"]) def Index():

return render\_template('index.html') @app.route('/Blog')

def Blog():

return render\_template('blog.html') @app.route('/Signup')

def Signup():

return render\_template('signup.html') @app.route('/Signin')

def Signin():

return render\_template('signin.html') if name ==' main ':

app.debug = True app.run()

## Question-3:

1. CreateaUsertablewithUsername,email,rollnumber,password
2. PerformUPDATEandDELETEqueries
3. Connectpythoncodetodatabase
4. CreateFlaskappforaUserregistrationandUserlogin

**Solution:**

# App.py

fromflaskimportFlask,render\_template,request,redirect

importsqlite3assqlimport modelsasdbHandler

app =Flask(name )app.secret\_key ='fasdgfdgdfg'

@app.route('/')def home():

returnrender\_template('home.html')

@app.route('/adduser')def new\_user():

returnrender\_template('add\_user.html')

@app.route('/addrec',methods = ['POST', 'GET'])def addrec():

if request.method == 'POST':try:

email=request.form['email']un=request.form['username']rn = request.form['rollnumber']pin =request.form['pin']

with sql.connect("User\_database.db") as con:cur =con.cursor()

cur.execute("INSERT INTO users (email,username,rollnumber,pin)VALUES(?,?,?,?)",(email,un,rn,pin))

con.commit()

msg = "Record successfully added!"except:

con.rollback()

msg="errorininsertoperation"

finally:

return render\_template("list.html",msg = msg)con.close()

@app.route('/list')def list():

con = sql.connect("User\_database.db")con.row\_factory=sql.Row

cur = con.cursor()cur.execute("select \*fromusers")

users=cur.fetchall()

return render\_template("list.html", users=users)

ifname == 'main ':app.run(debug = True)

@app.route("/delete")def delete():

returnrender\_template("delete.html")

@app.route('/deleterecord',methods = ["POST"])def deleterecord():

un=request.form['username']

with sql.connect("User\_database.db") as con:try:

cur =con.cursor()

cur.execute("DELETE FROM users WHERE username = ?",[un])con.commit()

msg = "Record successfully deleted"except:

msg = "can't be deleted"finally:

return render\_template("home1.html",msg =msg)

ifname == 'main ':app.run(debug = True)

@app.route('/deldb', methods = ["POST"])def deldb():

con = sql.connect('User\_database.db')cur=con.cursor()cur.execute('DELETEFROM users;')con.commit()

con.close()

msg='Allthe data has been deleted'

return render\_template("home1.html",msg =msg)

@app.route("/log")def log():

returnrender\_template("login.html")

@app.route('/login', methods =['GET', 'POST'])def login():

un = request.form['username']ifrequest.method=='POST':

users = dbHandler.retrieveUsers()msg ='Logged in successfully!'

return render\_template('welcome.html', users=un, msg=msg)else:

msg = 'You are not registered, would you like to be registered'returnrender\_template('home1.html',msg=msg)

ifname == 'main ':app.run(debug=False,host='0.0.0.0')

# Models.py

import sqlite3 as sql

defretrieveUsers():

con = sql.connect("User\_database.db")cur =con.cursor()

cur.execute("SELECT username, pin FROM users")users =cur.fetchone()

con.close()returnusers

# sqlite\_db\_setup.py

import sqlite3

conn = sqlite3.connect('User\_database.db') print("Opened database successfully")

conn.execute('CREATE TABLE users (email TEXT, username TEXT, rollnumberINTEGER,pinINTEGER)')

print("Table created successfully")conn.close()

# Home.html

<h1>Welcome to User DB APP</h1><br><br>

<ahref="/">HOME</a><br><br>

<ahref="/adduser">UserRegistration</a><br><br>

<ahref="/list">ListUser</a><br><br>

<ahref="/log">Log in</a><br><br>

<ahref="/delete">Remove aUser</a>

# Add\_user.html

<form action = "{{ url\_for('addrec') }}" method = "POST">

<h3>User Information</h3>E-mail<br>

<inputtype="email"name="email"/></br>

Username<br>

<inputtype="text"name="username"/></br>

Rollnumber<br>

<inputtype="text"name ="rollnumber"/><br>

PIN<br>

<inputtype="password"name ="pin" min="4"max="8" /><br><br>

<inputtype="submit"value ="submit"/><p> </p>

<inputtype="reset"/>

</form>

# list.html

<!doctype html>

<html>

<body>

<ahref="/">HOME</a><br><br>

<ahref="/adduser">Add NewStudent</a><br><br>

<ahref="/list">ListStudent</a><br><br>

<br><hr>

{{ msg}}

<tableborder =1>

<thead>

<td> Email </td>

<td>Username</td>

<td>RollNumber</td>

<td> Pin </td>

</thead>

{% for row inusers%}

<tr>

<td>{{row["email"]}}</td>

<td>{{row["username"]}}</td>

<td>{{row["rollnumber"]}}</td>

<td>{{row['pin']}}</td>

</tr>

{%endfor %}

</table>

</body>

</html>