## **Create UI To Interact With Application**

## app.py

```
from flask import Flask,render_template,request,session,logging,url_for,redirect,flash
from sqlalchemy import create_engine
from sqlalchemy.orm import scoped_session,sessionmaker
from passlib.hash import sha256_crypt
engine = create_engine("mysql+pymysql://root:sabi@localhost/register")
           #(mysql+pysql://username:password@localhost/databasename)
db=scoped_session(sessionmaker(bind=engine))
app=Flask(__name__)
@app.route("/")
def home():
  return render_template("home.html")
#register form
@app.route("/register",methods=["GET","POST"])
def register():
  if request.method == "POST":
    name= request.form.get("name")
    email =request.form.get("email")
    password=request.form.get("password")
    confirm=request.form.get("confirm")
    secure_password = sha256_crypt.encrypt(str(password))
```

```
if password == confirm:
       db.execute("Insert into users(name,email,password)
values(:name,:email,:password)",{"name":name,"email":email,"password":secure_password})
       db.commit()
       flash("you are registered and can login", "Success")
       return redirect(url_for('login'))
    else:
       flash("password does not match", "danger")
       return render_template("register.htm")
  return render_template("register.htm")
#login
@app.route("/login",methods=["GET","POST"])
def login():
  if request.method == "POST":
    name = request.form.get("name")
    password = request.form.get("password")
    namedata = db.execute("SELECT name FROM users WHERE
name=:name",{"name":name}).fetchone()
    passwordata = db.execute("SELECT password FROM users WHERE
name=:name",{"name":name}).fetchone()
```

if namedata is None:

```
flash("No username","danger")
       return render_template("login.htm")
     else:
       for passwor_data in passwordata:
         if sha256_crypt.verify(password,passwor_data):
            session["log"] = True
            flash("You are now login", "success")
            return redirect(url_for('photo'))
         else:
            flash("incorrect password","danger")
            return render_template("login.htm")
  return render_template("login.htm")
#photo
@app.route("/photo")
def photo():
  return render_template("photo.htm")
#logout
@app.route("/logout")
def logout():
  session.clear()
```

```
flash("You are now logger out", "Success")
  return redirect(url_for('login'))
Home.html
{% extends "layout.html"%}
{% block body%}
<h1>Welcome to our page</h1>
{% endblock %}
layout.html
<!DOCTYPE html>
<html lang="en">
<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>Document</title>
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
</head>
<body>
register.htm
{% extends "layout.html"%}
{% block body%}
```

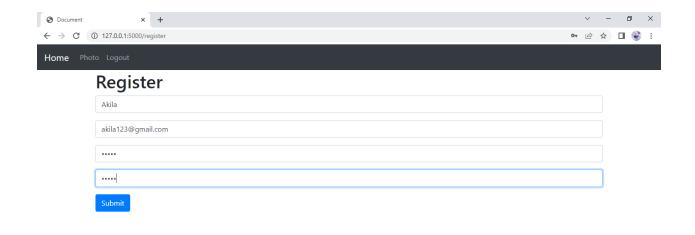
```
<div class="container">
<h1>Register</h1>
<form action="" method="POST">
  <div class="form-group">
    <input type="text" name="name" class="form-control" placeholder="name" required>
  </div>
  <div class="form-group">
    <input type="text" name="email" class="form-control" placeholder="email" required>
  </div>
  <div class="form-group">
    <input type="text" name="password" class="form-control" placeholder="password"</pre>
required>
  </div>
  <div class="form-group">
    <input type="text" name="confirm" class="form-control" placeholder="confirm password"</pre>
required>
  </div>
  <button class="btn btn-primary" type="submit">Submit</button>
</form>
</div>
{% endblock %}
login.htm
{% extends "layout.html"%}
{% block body%}
<div class="container">
  <h1>Login</h1>
  <form action="" method="POST">
```

```
<div class="form-group">
      <input type="text" name="name" class="form-control" placeholder="name" required>
    </div>
    <div class="form-group">
      <input type="password" name="password" class="form-control"</pre>
placeholder="password" required>
    </div>
    <button class="btn btn-primary" type="submit">Submit</button>
  </form>
</div>
{% endblock %}
photo.htm
{% extends "layout.html"%}
{% block body%}
<h1>Welcome to photo</h1>
{% endblock %}
_message.htm
{% with messages = get_flashed_messages(with_categories=true) %}
 {% if messages %}
  {% for category, message in messages %}
   <div class=" alert alert-{{ category }}">{{ message }}</div>
  {% endfor %}
  {% endif %}
```

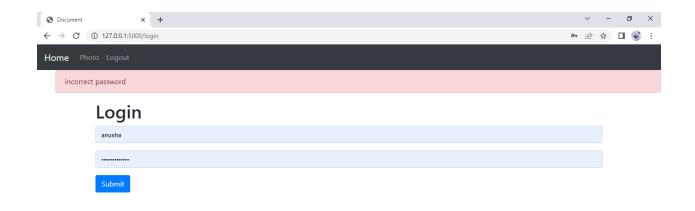
```
{% endwith %}
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">Home</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarText" aria-controls="navbarText" aria-expanded="false" aria-label="Toggle
navigation">
     <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarText">
     {% if session.log %}
      cli class="nav-item">
       <a class="nav-link" href="/photo">Photo</a>
      cli class="nav-item">
       <a class="nav-link" href="/logout">Logout</a>
      {% else %}
      <a class="nav-link" href="/register">Registration</a>
      cli class="nav-item">
       <a class="nav-link" href="/login">Login</a>
```

```
cli class="nav-item">
        <a class="nav-link" href="/add containment zones">Add Containment Zones</a>
       <a class="nav-link" href="/display all containment zones">Display all Containment
Zones</a>
       {% endif %}
     </div>
   </nav>
  {% include "includes/_message.htm"%}
  {% block body%}
  {% endblock %}
</body>
</html>
if __name__ == "__main___":
  app.secret_key="sabiwebcoding"
  app.run(debug=True)
```

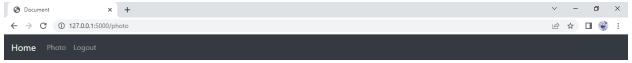
## Output











## **Welcome to Containment Zones**



