

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()
```

```
        passworddata = 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 passworddata:
            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>  
  <link 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"
required>
    </div>
    <div class="form-group">
        <input type="text" name="confirm" class="form-control" placeholder="confirm password"
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"
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 %}
    <ul class=flashes>
        {% for category, message in messages %}
            <div class=" alert alert-{{ category }}">{{ message }}</div>
        {% endfor %}
    </ul>
{% 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">

    <ul class="navbar-nav mr-auto">
```

```
{% if session.log % }
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="/photo">Photo</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="/logout">Logout</a>
```

```
</li>
```

```
{% else % }
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="/register">Registration</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
  <a class="nav-link" href="/login">Login</a>
```

```
</li>
```

```

        <li class="nav-item">
            <a class="nav-link" href="/add containment zones">Add Containment Zones</a>
        </li>

        <li class="nav-item">
            <a class="nav-link" href="/display all containment zones">Display all Containment
Zones</a>
        </li>

        {% endif %}
    </ul>

</div>

</nav>

{% include "includes/_message.htm"%}

{% block body%}

{% endblock %}

</body>

</html>

```

```

if __name__ == "__main__":
    app.secret_key="sabiwebcoding"
    app.run(debug=True)

```

Output

Windows taskbar showing search bar, taskbar icons (e.g., Edge, File Explorer, Mail, Teams, Chrome), and system tray (clock, language, network, volume).



