

Sprint 1 - code

Date	28 October 2022
Team ID	PNT2022TMID53114
Project Name	VirtualEye - Lifeguard for swimming pools to detect active drowning

app.py

```
from flask import Flask, request, render_template
```

```
from cloudant.client import Cloudant
```

```
# Authenticate using an IAM API key
```

```
client =
```

```
Cloudant.iam('06e7c9cd-cbb3-4b56-a40a-e669cf5b0906-bluemix','VPbZAA_fmWRYpJdz4kowa  
ZwERWNd4vqCSvOzVI5DXmNn', connect=True)
```

```
# Create a database using an initialized client
```

```
my_database = client['database1']
```

```
app = Flask(__name__)
```

```
@app.route("/")
```

```
def index():
```

```
    return render_template("./login.html")
```

```
@app.route("/about")
```

```
def about():
```

```
    return render_template("./about.html")
```

```
@app.route("/demo")
def demo():
    return render_template("./demo.html")
```

```
@app.route("/logout")
def logout():
    return render_template("./logout.html")
```

```
@app.route("/register")
def register():
    return render_template("./register.html")
```

```
@app.route("/result")
def res():
    return "<h1>result</h1>"
```

```
@app.route('/afterreg', methods=['GET'])
def afterreg():
    username = request.args.get('uname')
    password = request.args.get('password')
    print(list(request.form.values()))
    data = {
        'uname': username,
        'password': password
    }
    print(data)
    query = {'uname': {'$eq': data['uname']}}
    docs = my_database.get_query_result(query)
    print(docs)
```

```
print(len(docs.all()))
```

```
if(len(docs.all())==0):  
    url = my_database.create_document(data)  
    #response = requests.get(url)  
    return render_template('login.html', pred="Registration Successful, please login using your  
details")  
else:  
    return render_template('login.html', pred="You are already a member, please login using  
your details")
```

```
@app.route('/afterlogin',methods=['GET'])  
def afterlogin():  
    user = request.args.get('uname')  
    passw = request.args.get('password')  
    print(user + passw)  
    query = {'uname': {'$eq': user}}  
    docs = my_database.get_query_result(query)  
    print(docs)  
    print(len(docs.all()))  
    if(len(docs.all())==0):  
        return render_template('login.html', pred="The username is not found.")  
    else:  
        if((user==docs[0][0]['uname'] and passw==docs[0][0]['password'])):  
            return render_template('about.html')  
        else:  
            return render_template('login.html', pred="incorrect password, please try again.")
```

```
if __name__ == '__main__':  
    app.run()
```

login.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>login</title>  
    <link rel="stylesheet" href="style.css">  
    <style>  
        body {  
padding: 0;  
margin: 0;  
font-weight: bold;  
font-family: sans-serif;  
font-weight: bold;  
display: flex;  
flex-direction: column;  
}  
.navbar {  
width: 100%;  
display: flex;  
flex-direction: row;  
top: 0;  
padding: 5px 0;
```

```
background-color: black;
color: white;
font-family: sans-serif;
}
.navbar h1 {
margin-left: 20px;
text-shadow: 2px 2px 2px black;
margin-right: 70%;
}
.navlinks {
align-items: center;
right: 20px;
display: flex;
flex-direction: row;
margin-bottom: 5px;
}
nav a {
margin: 0 auto;
text-decoration: none;
color: white;
font-family: sans-serif;
margin: 5px 15px;
text-shadow: 2px 2px 2px black;
}
.footer {
position: fixed;
text-align: center;
left: 0;
bottom: 0;
width: 100%;
```

```
background-color: black;
color: white;
text-align: center;
}

.fields {
    border: 1px solid grey;
    display: flex;
    flex-direction: column;
    margin: 7.5% auto;
    padding: 10px;
    width: 50%;
    border-radius: 20px;
    margin-bottom: 0;
}

#logo {
    height: 100px;
    width: 200px;
    margin: 30px auto;
}

.field {
    font-size: large;
    min-height: 30px;
    margin: 20px;
    border-radius: 10px;
}

#login {
    background-color: black;
    color: white;
    padding: 10px 0;
```

```
        font-weight: bold;
    }
    #goToReg {
        margin: 30px auto;
        width: 50%;
        text-align: center;
    }
</style>
</head>
<body>
    <div class="navbar">
        <h1>Virtual Eye</h1>
    </div>
    <div class="content">
        <div>
            <form class="fields" action="./afterlogin" method="GET">
                <center><h4>{{pred}}</h4></center>
                
                <input class="field" type="text" name="uname" placeholder="Enter username" />
                <input class="field" type="password" name="password" placeholder="Enter
password" />
                <input type="submit" class="field" id="login" value="login" />
            </form>
        </div>
    </div>
    <div id="goToReg">don't have an account? <a href="./register">register here</a></div>
    <div class="footer">
        <p style="color: white"><b>Copyrights &#169; 2022. All Rights Reserved.</b></p>
    </div>
</body>
```

</html>

register.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>register</title>

<link rel="stylesheet" href="style.css">

<style>

body {

padding: 0;

margin: 0;

font-weight: bold;

font-family: sans-serif;

font-weight: bold;

display: flex;

flex-direction: column;

}

.navbar {

width: 100%;

display: flex;

flex-direction: row;

top: 0;

padding: 5px 0;

background-color: black;

color: white;


```
    font-family: sans-serif;
}
.navbar h1 {
    margin-left: 20px;
    text-shadow: 2px 2px 2px black;
    margin-right: 70%;
}
.navlinks {
    align-items: center;
    right: 20px;
    display: flex;
    flex-direction: row;
    margin-bottom: 5px;
}
nav a {
    margin: 0 auto;
    text-decoration: none;
    color: white;
    font-family: sans-serif;
    margin: 5px 15px;
    text-shadow: 2px 2px 2px black;
}
.footer {
    position: fixed;
    text-align: center;
    left: 0;
    bottom: 0;
    width: 100%;
    background-color: black;
    color: white;
```

```
text-align: center;
}
.fields {
  border: 1px solid grey;
  display: flex;
  flex-direction: column;
  margin: 5% auto;
  padding: 10px;
  width: 50%;
  border-radius: 20px;
  margin-bottom: 0;
}
#logo {
  height: 100px;
  width: 200px;
  margin: 30px auto;
}
.field {
  font-size: large;
  min-height: 30px;
  margin: 20px;
  border-radius: 10px;
}
#register {
  background-color: black;
  color: white;
  padding: 10px 0;
  font-weight: bold;
}
#goToLogin {
```

```

        margin: 30px auto;
        width: 50%;
        text-align: center;
    }
</style>
</head>
<body>
    <div class="navbar">
        <h1>Virtual Eye</h1>
    </div>
    <div>
        <form class="fields" action="./afterreg" method="GET">
            
            <input class="field" name="uname" type="text" placeholder="Enter Name" />
            <input class="field" name="password" type="password" placeholder="Enter
password" />
            <input type="submit" class="field" id="register" value="register"/>
        </form>
    </div>
</div>
<div id="goToLogin">have an account? <a href="/">login here</a></div>
<div class="footer">
    <p style="color: white"><b>Copyrights &#169; 2022. All Rights Reserved.</p>
</div>
</body>
</html>

```

logout.html

```
<html>
```

```
<head>
<link rel="stylesheet" href="style.css">
<style>
  body {
padding: 0;
margin: 0;
font-weight: bold;
font-family: sans-serif;
font-weight: bold;
display: flex;
flex-direction: column;
}
.navbar {
  width: 100%;
  display: flex;
  flex-direction: row;
  top: 0;
  padding: 5px 0;
  background-color: black;
  color: white;
  font-family: sans-serif;
}
.navbar h1 {
  margin-left: 20px;
  text-shadow: 2px 2px 2px black;
  margin-right: 70%;
}
.navlinks {
  align-items: center;
  right: 20px;
```

```
display: flex;
flex-direction: row;
margin-bottom: 5px;
}
nav a {
margin: 0 auto;
text-decoration: none;
color: white;
font-family: sans-serif;
margin: 5px 15px;
text-shadow: 2px 2px 2px black;
}
.footer {
position: fixed;
text-align: center;
left: 0;
bottom: 0;
width: 100%;
background-color: black;
color: white;
text-align: center;
}
.content {
margin: 10% auto;
text-align: center;
}
#login {
background-color: black;
color: white;
padding: 10px 0;
```

```
        font-weight: bold;
        width: 300px;
        border-radius: 10px;
        font-size: large;
    }
</style>
</head>
<body>
    <div class="navbar">
        <h1>Virtual Eye</h1>
        <div class="navlinks">
            <nav><a href="/login">login</a></nav>
            <nav><a href="/register">register</a></nav>
        </div>
    </div>
    <div class="content">
        <h1>Successfully Logged Out!</h3>
        <h3 id = "info" >Login for more information</h5>
        <button class="field" id="login" onclick="window.location.href = '/';">Log In</button>
    </div>
    <div class="footer">
        <p style="color: white"><b>Copyrights &#169; 2022. All Rights Reserved.</p>
    </div>
</body>
</html>
```