

# Sprint 1 - code

|              |   |
|--------------|---|
| Date         | 18 November 2022  |
| Team ID      | PNT2022TMID51524  |
| 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.</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>
```