**User signup**

main.py

## \*\*\* Need: username, password, password verification and (optionally) email address \*\*\*

## \*\*\* Redirect to welcome page, or provide error information if any input is invalid \*\*\*

# the following should trigger error:

# any empty fields(not email)

# username/password not valid (ex:space char or less than 3 characters or more than 20 characters)

# user password and password-confirmation do not match

# user provides email, but not a valid one - e.g. single @, single ., contains no spaces and is between 3 and 20 characters

# feedback message should be next to the field it refers to

# \*\*\*\* do not use email input type. Just use text (does not perform client-side validation). The will allow us to check

# \*\*\*\* that the server side validation is working by letting errors through the client side. DO use type='password' for

# \*\*\*\* for password and password-verification to hide characters typed (this input type does not include any additional validation.)

# for username and email fields, preserve what user typed, so they don't have to retype \*\*\*????

# password fields should be cleared for security reasons

# If all input correct, direct to welcome page that states: "Welcome, [username]!"

# use templates (one for index, one for home page and one for welcome page) to render the HTML for your web app \*\*\*????

from flask import Flask, request, redirect, render\_template, escape

app = Flask(\_\_name\_\_)

app.config['DEBUG'] = True

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

def verify():

username = request.form["user-name"]

if len(username) < 3 or len(username) > 20 or username == '' or ' ' in username:

name\_error = "That's not a valid username"

else:

name\_error = None

password = request.form["password"]

if len(password) < 3 or len (password) > 20 or password == '' or ' ' in password:

pass\_error = "That's not a valid password".format(password)

else:

pass\_error = None

verify\_password = request.form['verify-password']

if verify\_password == '' or password != verify\_password:

verify\_pass\_error = "Passwords don't match".format(verify\_password)

else:

verify\_pass\_error = None

email = request.form["email"]

if email != '':

if ' ' in email or (email.count('@') > 1) or len(email)<3 or len(email) > 20 or (email.count('.') > 1):

email\_error = "That's not a valid email".format(email)

else:

email\_error = None

else:

email\_error = None

username = escape(username)

password = escape(password)

verify\_password = escape(verify\_password)

email = escape(email)

if not email\_error and not pass\_error and not name\_error and not verify\_pass\_error:

return render\_template("welcome.html", username=username)

return render\_template ("index.html", name\_error=name\_error, pass\_error=pass\_error, verify\_pass\_error=verify\_pass\_error, email\_error=email\_error)

# @app.route("/welcome")

# def welcome\_greeting():

# username = request.form['username']

@app.route("/")

def index():

encoded\_error = request.args.get("error")

return render\_template("index.html", error=encoded\_error and escape(encoded\_error))

app.run()

**base.html**

<!DOCTYPE html>

<html lang='eng'>

<head>

<meta charset="utf-8">

<title>{{Title}}</title>

<style type="text/css">

.error {

color: red;

}

</style>

</head>

<body>

{% block content %}

{% endblock %}

</body>

</html>

**welcome.html**

{% extends "base.html" %}

{% block content %}

<p>Welcome, {{username}}!</p>

{% endblock %}

**Index.html**

{% extends "base.html" %}

{% block content %}

<h1>Signup</h1>

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

<label >

Username

<input type="text" name="user-name" {% if not name\_error %} value="{{ request.form['user-name'] }}" {% endif %}/>

{% if name\_error %}

<span class="error">{{name\_error}}</span>

{% endif %}

</label>

<br>

<label>

Password

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

{% if pass\_error %}

<span class="error">{{pass\_error}}</span>

{% endif %}

</label>

<br>

<label>

Verify Password

<input type="password" name="verify-password">

{% if verify\_pass\_error %}

<span class="error">{{verify\_pass\_error}}</span>

{% endif %}

</label>

<br>

<label>

Email (optional)

<input type="text" name="email" {% if not email\_error%} value="{{ request.form['email'] }}" {% endif %}>

{% if email\_error %}

<span class="error">{{email\_error}}</span>

{% endif %}

</label>

<br>

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

</form>

{% endblock %}