LAB 11: Cassandra Cabrera and Mike Menendez   **Due:** March 9, 2020

Summary: For this lab we got to experiment with flask and understand how routes work better. I had initial trouble understanding exactly what structure the templates and static folders go in in relation to the main file. But from previous knowledge of using Django, I found out the structure was the same. After figuring that out, was able to apply knowledge that I am currently gaining in my other class about bootstrap to create the lists for this web application.

Code:

Task 1

```
(env) Cassandras-MacBook-Pro:11 casscabrera$ python3
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 16:39:00)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import flask
>>>
```

Task 2

```python
views.py    detail.html    index.html    hello-world.py

1   '''
2   Authors: Cassandra Cabrera & Mike Menenendez
3   Date: March 9, 2020
4   Purpose:
5       - satisfy Task 2 of Lab 11 for CST205
6       - creates simple Hello World website using Flask
7   '''
8   from flask import Flask
9   # create an instance of the Flask class
10  app = Flask(__name__)
11  # route() decorator binds a function to a URL
12  @app.route('/hello')
13  def hello():
14    return 'Hello world from Flask'
```

Results from Task 2

Hello world from Flask

Task 3

```
'''
Authors: Cassandra Cabrera & Mike Menenendez
Date: March 9, 2020
Purpose:
    - satisfy Task 3 of Lab 11 for CST205
    - creates simple Hello World website using Flask and bootstrap
'''
from flask import Flask, render_template
from flask import Flask
from flask_bootstrap import Bootstrap

# create an instance of the Flask class
#links to bootstrap template as well
app = Flask(__name__)
Bootstrap(app)

# route() decorator binds a function to a URL
@app.route('/hello')
def hello():
    return render_template('template.html')
```

settings.py ✕   hello-world.py ✕   template.html ✕

```
{% extends 'bootstrap/base.html' %}

{% block content %}
    <div class="container">
        <h1>Hello World from Flask!</h1>
    </div>
{% endblock %}
```

Results from Task3

127.0.0.1:5000/hello

Hello World from Flask!

Task4

```python
'''
Authors: Cassandra Cabrera & Mike Menenendez
Date: March 9, 2020
Purpose:
    - satisfy Task 3 of Lab 11 for CST205
    - creates list of favorite colors
'''
from flask import Flask, render_template
from flask import Flask
from flask_bootstrap import Bootstrap

#defines my dictionary
stuff = {'seasons': ['fall','winter','summer','spring'],
         'favColors': ['forest green','dodger blue','sunshine yellow']
        }

# create an instance of the Flask class
#links to bootstrap template as well
app = Flask(__name__)
Bootstrap(app)

# route() decorator binds a function to a URL
@app.route('/hello')
def hello():
    return render_template('template.html', s_list=stuff)
```

```
{% extends 'bootstrap/base.html' %}

{% block content %}
    <div class="container">
        <h1>Cass & Mieks Favorite Colors</h1>
        <ul>
            {% for item in s_list['favColors'] %}
                <li> {{ item }} </li>
            {% endfor %}
        </ul>
    </div>
{% endblock %}
```

Results from Task4

Cass & Mieks Favorite Colors

- forest green
- dodger blue
- sunshine yellow

Task5

```
(env) Cassandras-MBP:11 casscabrera$ pip install Flask-WTF
Collecting Flask-WTF
  Downloading Flask_WTF-0.14.3-py2.py3-none-any.whl (13 kB)
Requirement already satisfied: Flask in /Users/casscabrera/Desktop/CST205/env/li
b/python3.7/site-packages (from Flask-WTF) (1.1.1)
Collecting WTForms
  Downloading WTForms-2.2.1-py2.py3-none-any.whl (166 kB)
     |████████████████████████████████| 166 kB 1.1 MB/s
Requirement already satisfied: itsdangerous in /Users/casscabrera/Desktop/CST205
/env/lib/python3.7/site-packages (from Flask-WTF) (1.1.0)
Requirement already satisfied: click>=5.1 in /Users/casscabrera/Desktop/CST205/e
nv/lib/python3.7/site-packages (from Flask->Flask-WTF) (7.0)
Requirement already satisfied: Werkzeug>=0.15 in /Users/casscabrera/Desktop/CST2
05/env/lib/python3.7/site-packages (from Flask->Flask-WTF) (1.0.0)
Requirement already satisfied: Jinja2>=2.10.1 in /Users/casscabrera/Desktop/CST2
05/env/lib/python3.7/site-packages (from Flask->Flask-WTF) (2.11.1)
Requirement already satisfied: MarkupSafe>=0.23 in /Users/casscabrera/Desktop/CS
T205/env/lib/python3.7/site-packages (from Jinja2>=2.10.1->Flask->Flask-WTF) (1.
1.1)
Installing collected packages: WTForms, Flask-WTF
Successfully installed Flask-WTF-0.14.3 WTForms-2.2.1
(env) Cassandras-MBP:11 casscabrera$
```