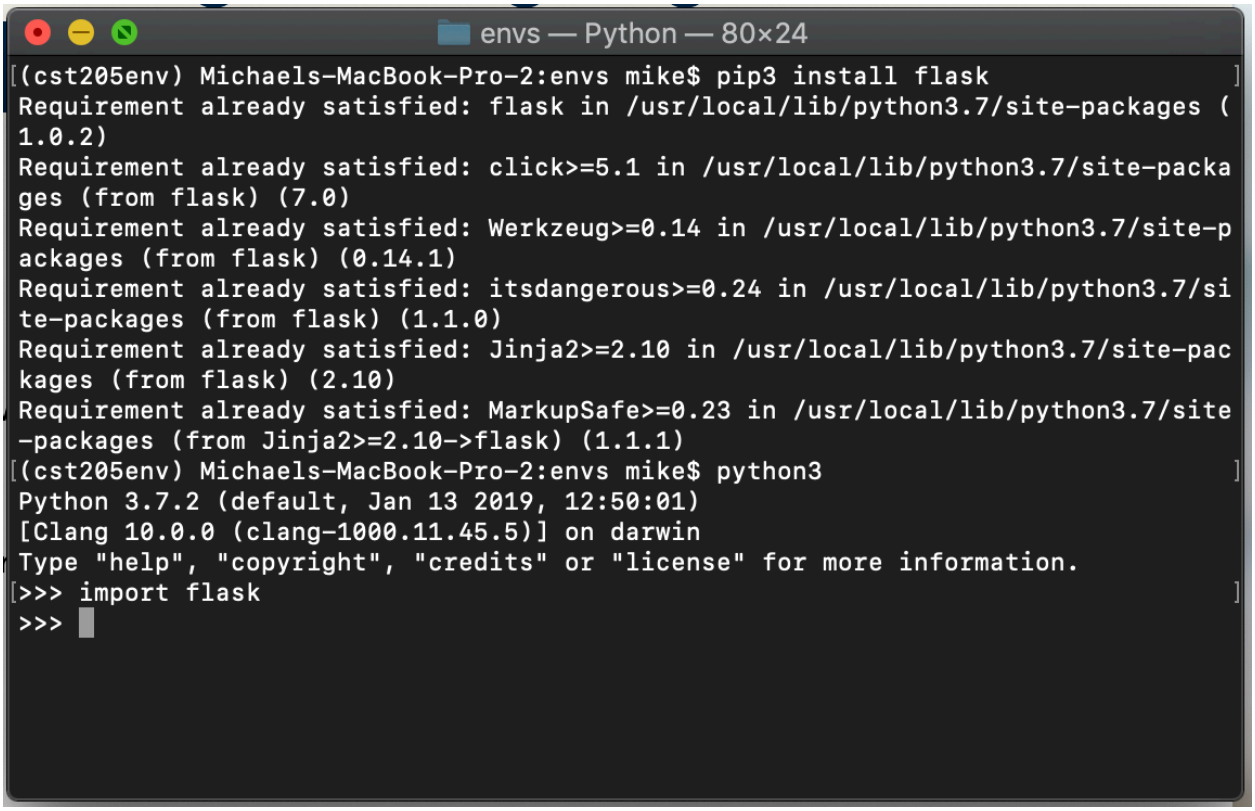
Assignment Name: Lab 11

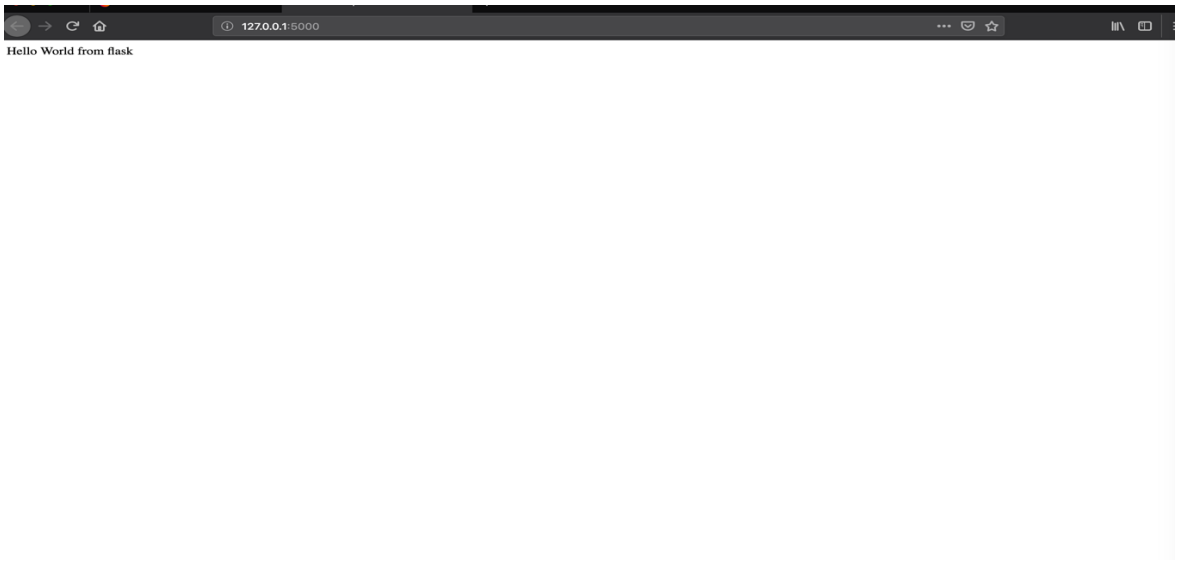
Names: Jesus Andres Bernal Lopez, Paul Whipp, Michael Avalos-Garcia

Summary: This lab was pretty straight forward. We were humbly granted some of the code from class to modify/continue. This made things a lot smoother. One of the tasks we did struggle on was task4. It was very slight, we just had a little trouble printing the values on the web browser. We also added an alignment to make the values easier to read. This was a fun lab.

Task 1

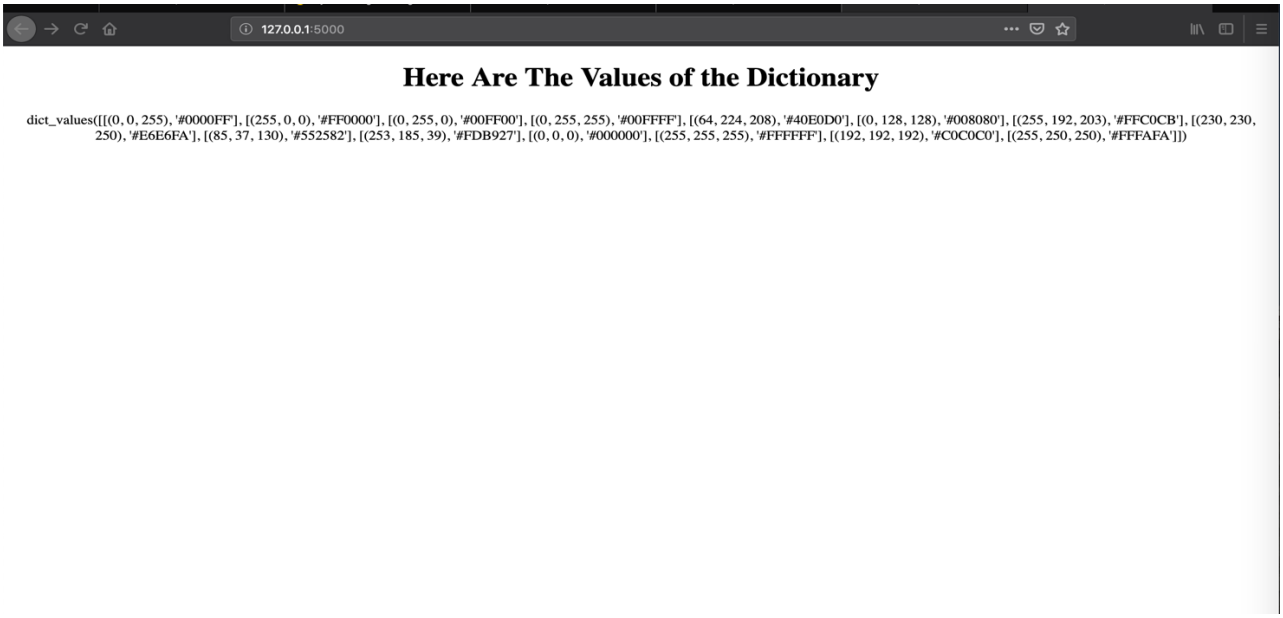


Task 2

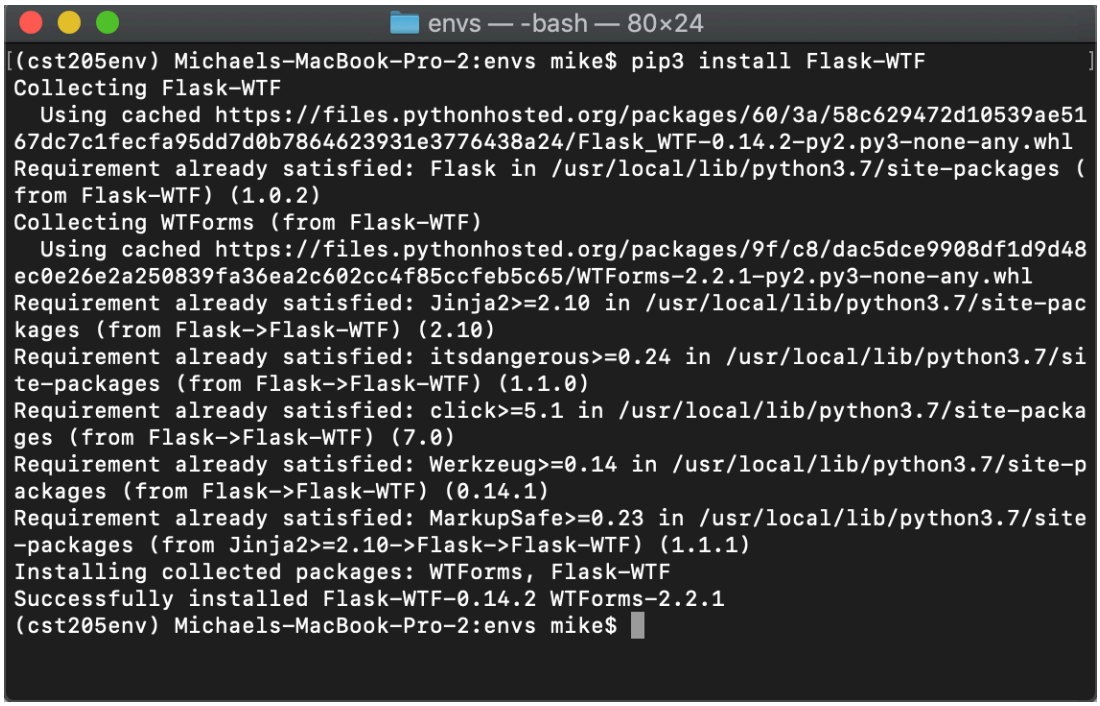


Task 3

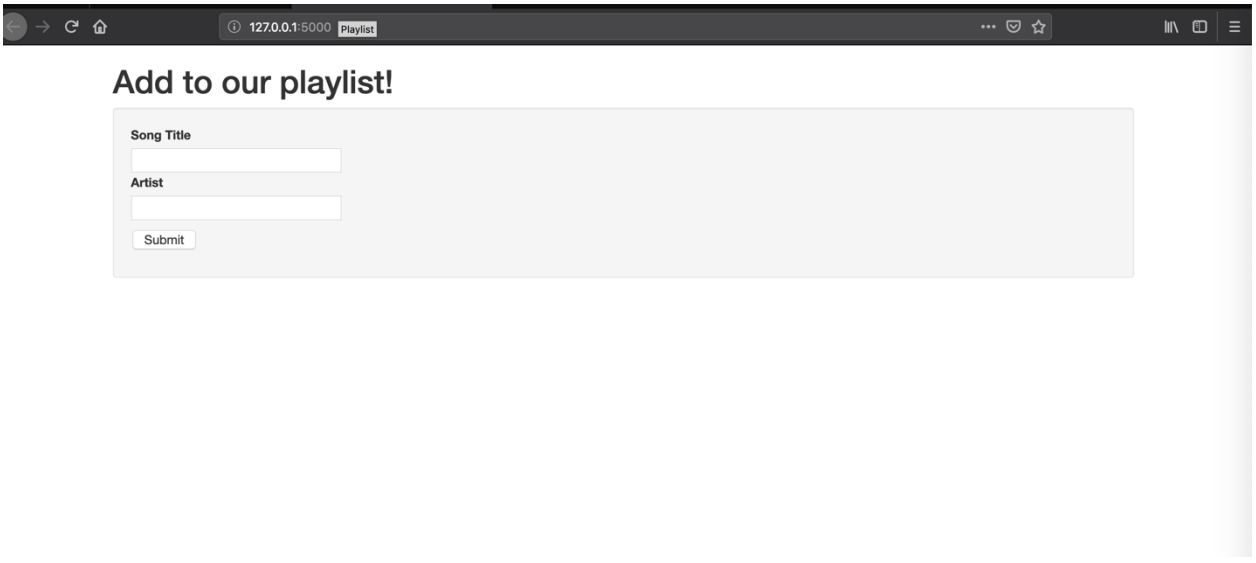
Task 4

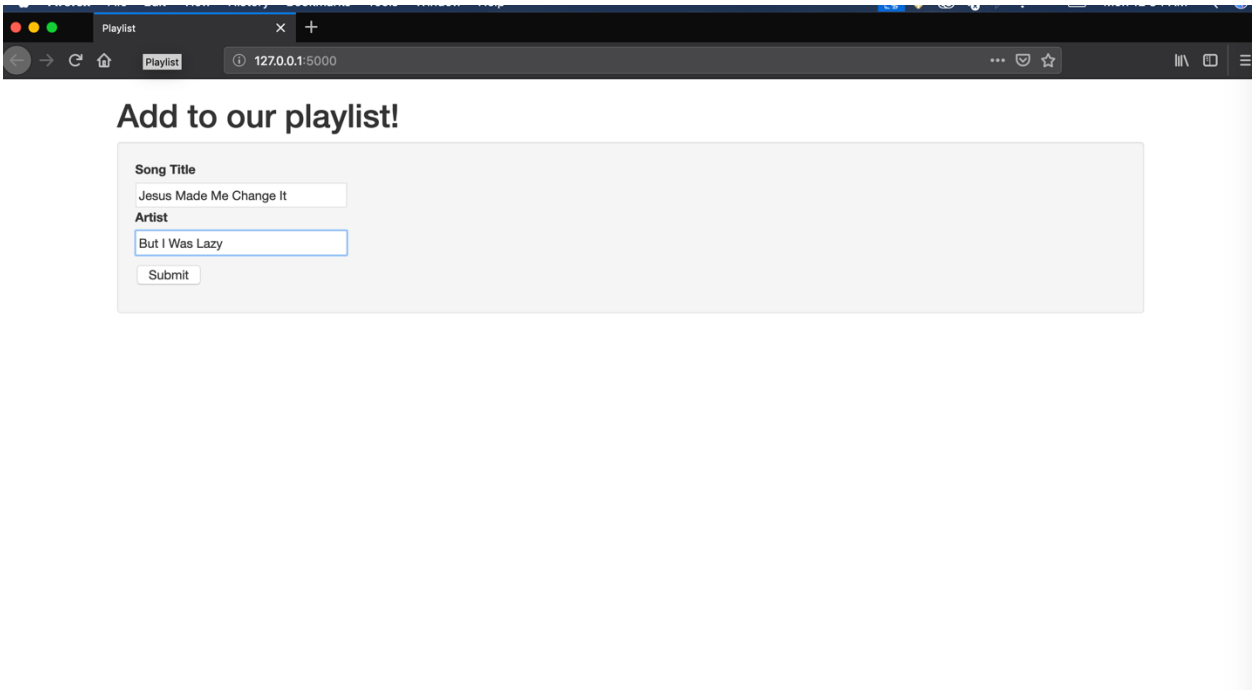


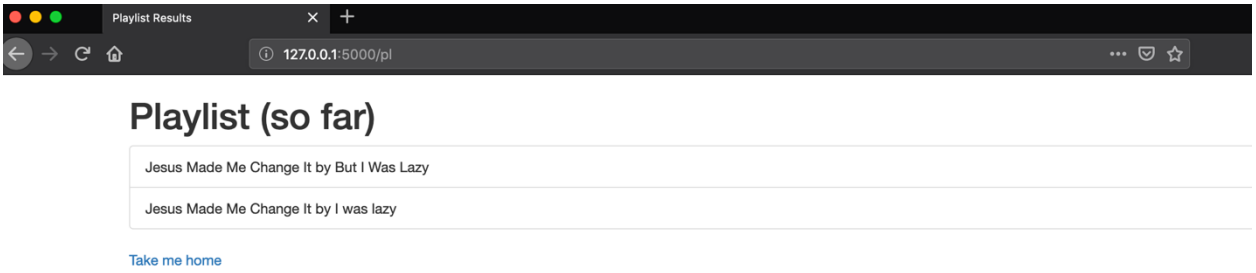
Task 5


envs — -bash — 80×24
(cst205env) Michaels-MacBook-Pro-2:envs mike$ pip3 install Flask-WTF
Collecting Flask-WTF
Using cached https://files.pythonhosted.org/packages/60/3a/58c629472d10539ae5167dc7c1fecfa95dd7d0b7864623931e3776438a24/Flask_WTF-0.14.2-py2.py3-none-any.whl
Requirement already satisfied: Flask in /usr/local/lib/python3.7/site-packages (from Flask-WTF) (1.0.2)
Collecting WTForms (from Flask-WTF)
Using cached https://files.pythonhosted.org/packages/9f/c8/dac5dce9908df1d9d48ec0e26e2a250839fa36ea2c602cc4f85ccfeb5c65/WTForms-2.2.1-py2.py3-none-any.whl
Requirement already satisfied: Jinja2>=2.10 in /usr/local/lib/python3.7/site-packages (from Flask->Flask-WTF) (2.10)
Requirement already satisfied: itsdangerous>=0.24 in /usr/local/lib/python3.7/site-packages (from Flask->Flask-WTF) (1.1.0)
Requirement already satisfied: click>=5.1 in /usr/local/lib/python3.7/site-packages (from Flask->Flask-WTF) (7.0)
Requirement already satisfied: Werkzeug>=0.14 in /usr/local/lib/python3.7/site-packages (from Flask->Flask-WTF) (0.14.1)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/site-packages (from Jinja2>=2.10->Flask->Flask-WTF) (1.1.1)
Installing collected packages: WTForms, Flask-WTF
Successfully installed Flask-WTF-0.14.2 WTForms-2.2.1
(cst205env) Michaels-MacBook-Pro-2:envs mike$

Task 6


127.0.0.1:5000
Playlist
Add to our playlist!
Song Title
Artist
Submit


Playlist
Playlist
127.0.0.1:5000
Add to our playlist!
Song Title
Jesus Made Me Change It
Artist
But I Was Lazy
Submit


Playlist Results
127.0.0.1:5000/pl
Playlist (so far)
Jesus Made Me Change It by But I Was Lazy
Jesus Made Me Change It by I was lazy
Take me home

lab11.py code

```
#! /usr/bin/env python3

'''
  Names: Jesus Andres Bernal Lopez, Paul Whipp, Michael Avalos-Garcia
  Date: 2/9/2019
  Course: CST 205
  Description: Using flask to build simple web stuff.
'''

from flask import Flask, render_template
from flask_bootstrap import Bootstrap
from flask_wtf import FlaskForm
from wtforms import SubmitField, StringField


Task 2
use this to run app without any additional commands
app = Flask(__name__)


@app.route("/")
def home():
      displays the return statement using flask
    return "Hello World from flask"


Task 3
use this to run app without any additional commands
app = Flask(__name__)


@app.route('/')
def home():
      Displays contents from hello.html in browser when run
    return render_template("hello.html")


Task 4
use this to run app without any additional commands
app = Flask(__name__)

#dictionary from previous lab
color_dictionary = {
        "blue": [(0, 0, 255), "#0000FF"],
        "red": [(255, 0, 0), "#FF0000"],
        "green": [(0, 255, 0), "#00FF00"],
        "cyan": [(0, 255, 255), "#00FFFF"],
        "turquoise": [(64, 224, 208), "#40E0D0"],
        "teal": [(0, 128, 128), "#008080"],
        "pink": [(255, 192, 203), "#FFC0CB"],
```

```
        "lavender": [(230, 230, 250), "#E6E6FA"],
        "purple": [(85, 37, 130), "#552582"],
        "gold": [(253, 185, 39), "#FDB927"],
        "black": [(0, 0, 0), "#000000"],
        "white": [(255, 255, 255), "#FFFFFF"],
        "silver": [(192, 192, 192), "#C0C0C0"],
        "snow": [(255, 250, 250), "#FFFAFA"],
    }


class PlayList(FlaskForm):
    song_title = StringField('Song Title')
    submit = SubmitField('Submit')

@app.route('/')
def home():
    #store color_dictionary in s_list and use s_list.values() in html to
print out
    return render_template("hello.html", s_list = color_dictionary)


Task 6

from flask import Flask, render_template, flash, redirect
from flask_bootstrap import Bootstrap
from flask_wtf import FlaskForm
from wtforms import StringField, SubmitField
from wtforms.validators import DataRequired
from datetime import datetime

app = Flask(__name__)
app.config['SECRET_KEY'] = 'csumb-otter'
bootstrap = Bootstrap(app)

class Playlist(FlaskForm):
    song_title = StringField('Song Title', validators=[DataRequired()])
    artist_title = StringField('Artist', validators=[DataRequired()])
    submit = SubmitField('Submit')

playlist = []

def store_song(my_song, my_artist):
    playlist.append(dict(
        song = my_song,
        artist = my_artist,
        date = datetime.today()
    ))

@app.route('/', methods=['GET','POST'])
def index():
    form = Playlist()
    if form.validate_on_submit():
        store_song(form.song_title.data, form.artist_title.data)
        print(playlist)
```

```
        return redirect('/pl')
    return render_template('index.html', form=form)

@app.route('/pl')
def pl():
    return render_template('pl.html', playlist=playlist)

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

hello.html code

```
<!-- hello.html -->

{% block title %}
    <div style="text-align: center">
        <h1>Here Are The Values of the Dictionary</h1>
    </div>
{% endblock %}

{% block content %}
    <div style="text-align: center;"/>
        {{s_list.values()}}
    </center>
{% endblock %}
```

index.html code

```
{% extends 'bootstrap/base.html' %}
{% block title %}
  Playlist
{% endblock %}

{% block content %}

<!-- templates/index.html -->

<div class="container">

  <h1>Add to our playlist!</h1>

  <div class="well">

  <form action="" method="post">
```

```
    {{ form.csrf_token }}
    {{ form.hidden_tag() }}
    <p>
        {{ form.song_title.label }} <br> {{ form.song_title(size=32) }}
<br>
        {{ form.artist_title.label}} <br> {{ form.artist_title(size=32) }}
    </p>

    <p>{{ form.submit() }}</p>

  </form>

</div>

</div>

{% endblock %}
```

pl.html code

```
{% extends 'bootstrap/base.html' %}
{% block title %}
  Playlist Results
{% endblock %}

{% block content %}

<!-- templates/pl.html -->

<div class="container">
  <h1>Playlist (so far)</h1>

  <ul class="list-group">

    {% for item in playlist %}

      <li class="list-group-item">{{ item.song }} by {{ item.artist
}}</li>

    {% endfor %}

  </ul>

  <a href="{{ url_for('index') }}">Take me home</a>

</div>

{% endblock %}
```