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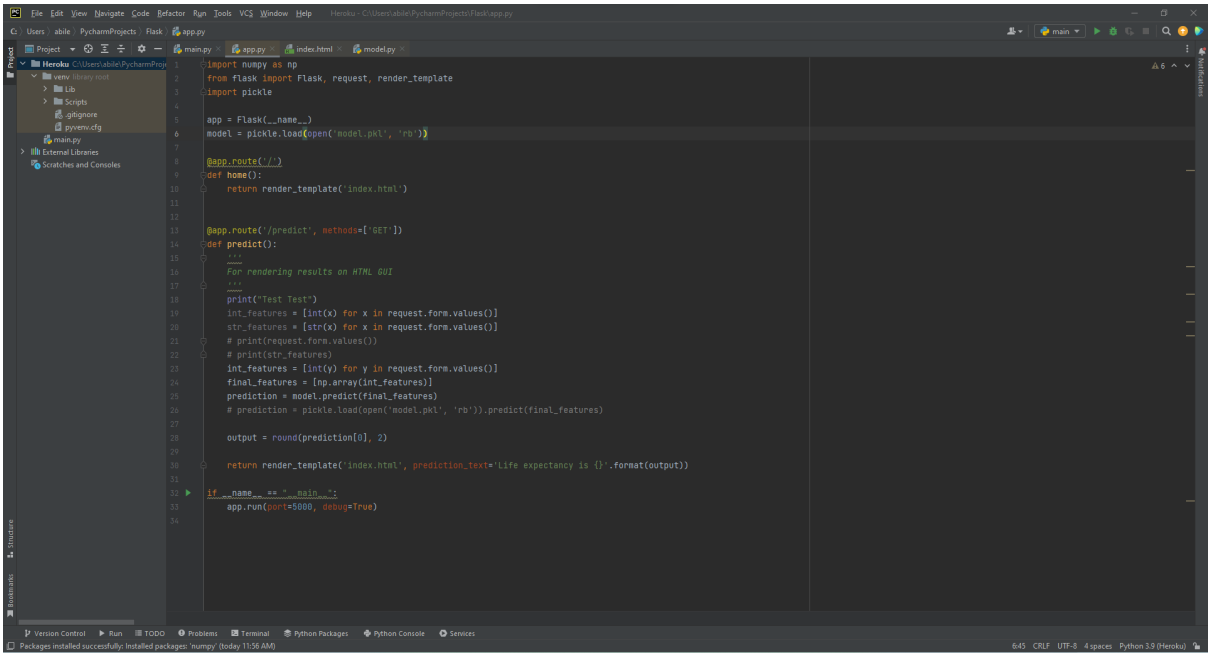
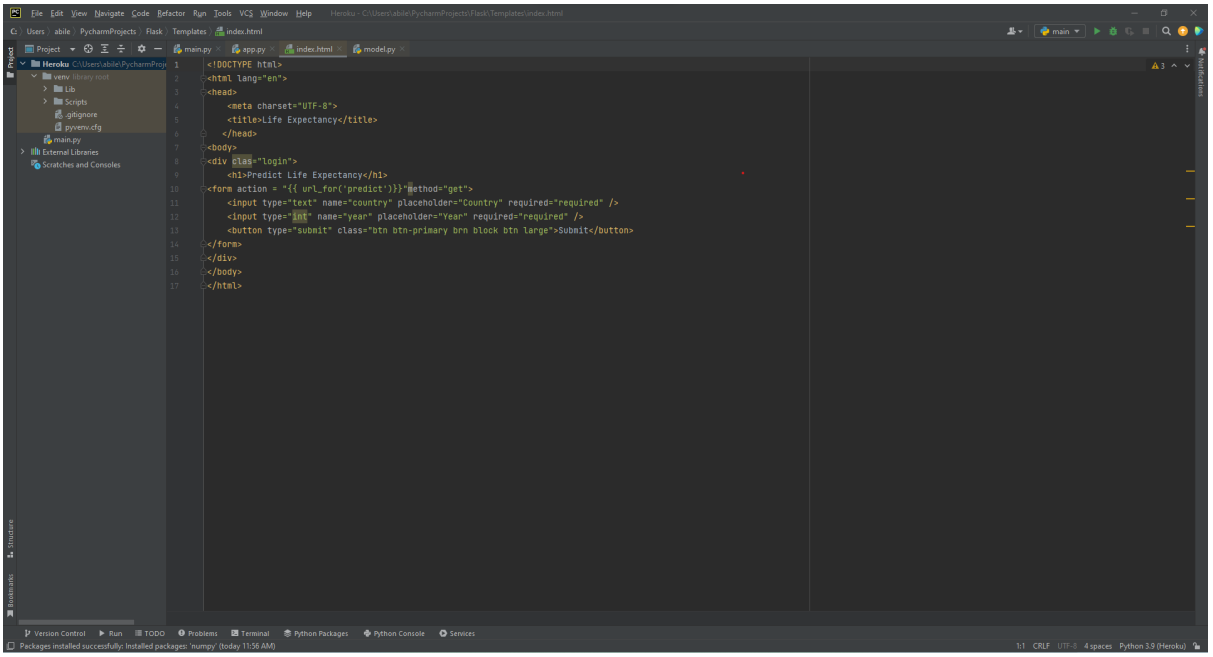
Batch #: LISUM215
Submission Date: 5 December 2022



```python
import numpy as np
from flask import Flask, request, render_template
import pickle

app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))

@app.route('/')
def home():
    return render_template('index.html')


@app.route('/predict', methods=['GET'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    print("Test Test")
    int_features = [int(x) for x in request.form.values()]
    str_features = [str(x) for x in request.form.values()]
    # print(request.form.values())
    # print(str_features)
    int_features = [int(y) for y in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)
    # prediction = pickle.load(open('model.pkl', 'rb')).predict(final_features)

    output = round(prediction[0], 2)

    return render_template('index.html', prediction_text='Life expectancy is {}'.format(output))

if __name__ == "__main__":
    app.run(port=5000, debug=True)
```

This app.py file shows the input type as well as the output type.

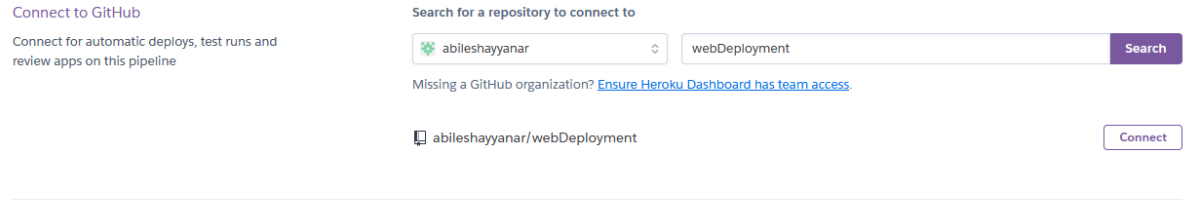


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Life Expectancy</title>
  </head>
<body>
<div clas="login">
    <h1>Predict Life Expectancy</h1>
<form action = "{{ url_for('predict')}}"method="get">
    <input type="text" name="country" placeholder="Country" required="required" />
    <input type="int" name="year" placeholder="Year" required="required" />
    <button type="submit" class="btn btn-primary brn block btn large">Submit</button>
</form>
</div>
</body>
</html>
```

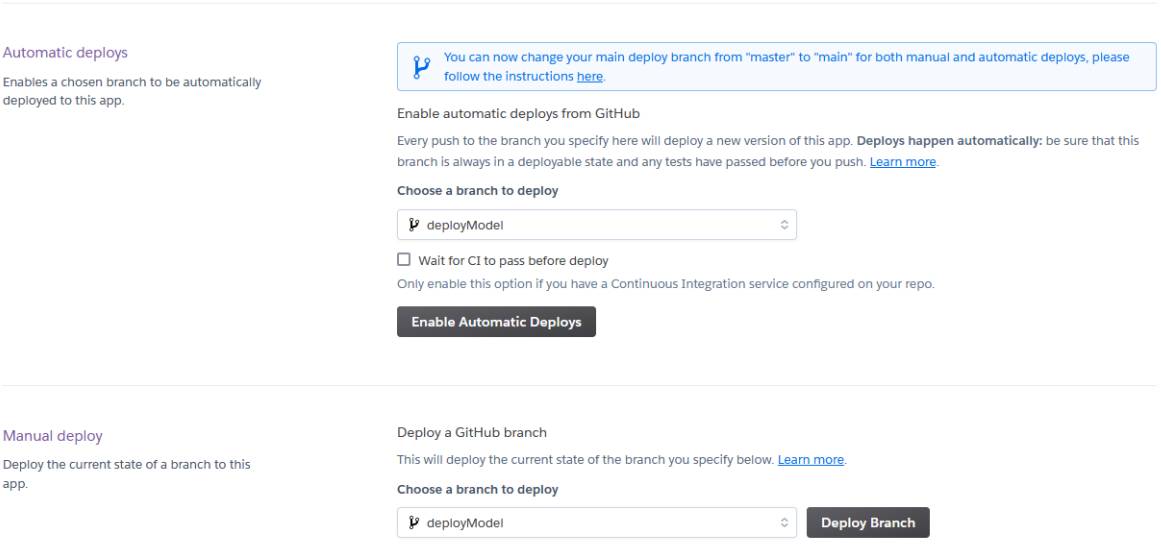
The index.txt file shows how the search bars and buttons were added to the app.

```
PS C:\Users\abile\repos\webAppDeployment> git checkout -b deployModel
Switched to a new branch 'deployModel'
```

New branch is created to deploy on Heroku



The app was created on Heroku and connected directly to the GitHub repository



App was then deployed in the specific branch in the repository

Heroku then built and deployed the application that looks like this