

Deployment on Flask Report

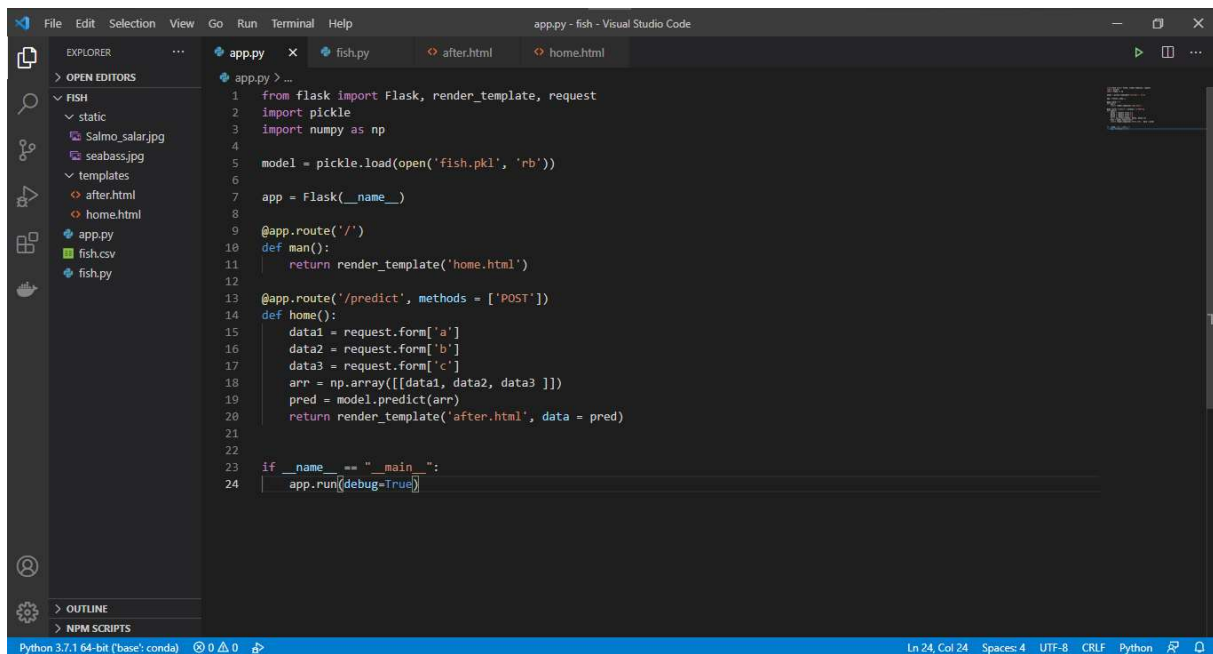
Name: Deployment on Flask

Submission date: 23.03.2021

Internship Batch: LISP01

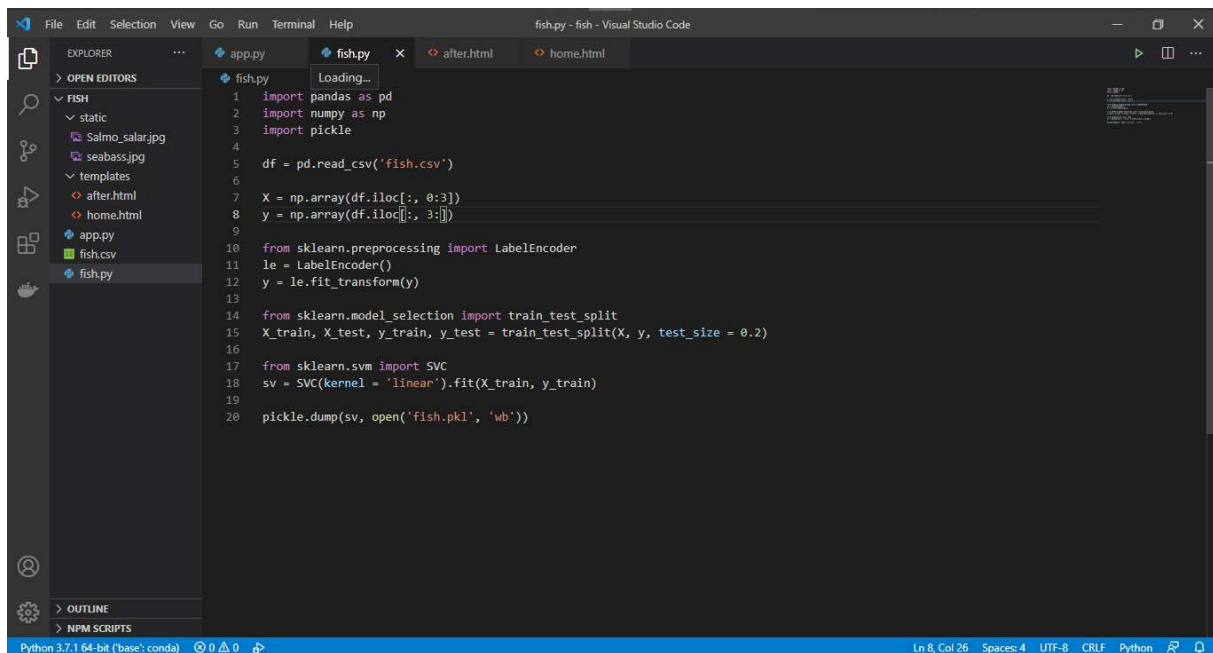
Version: 1.0

Sender: Buse Gungor



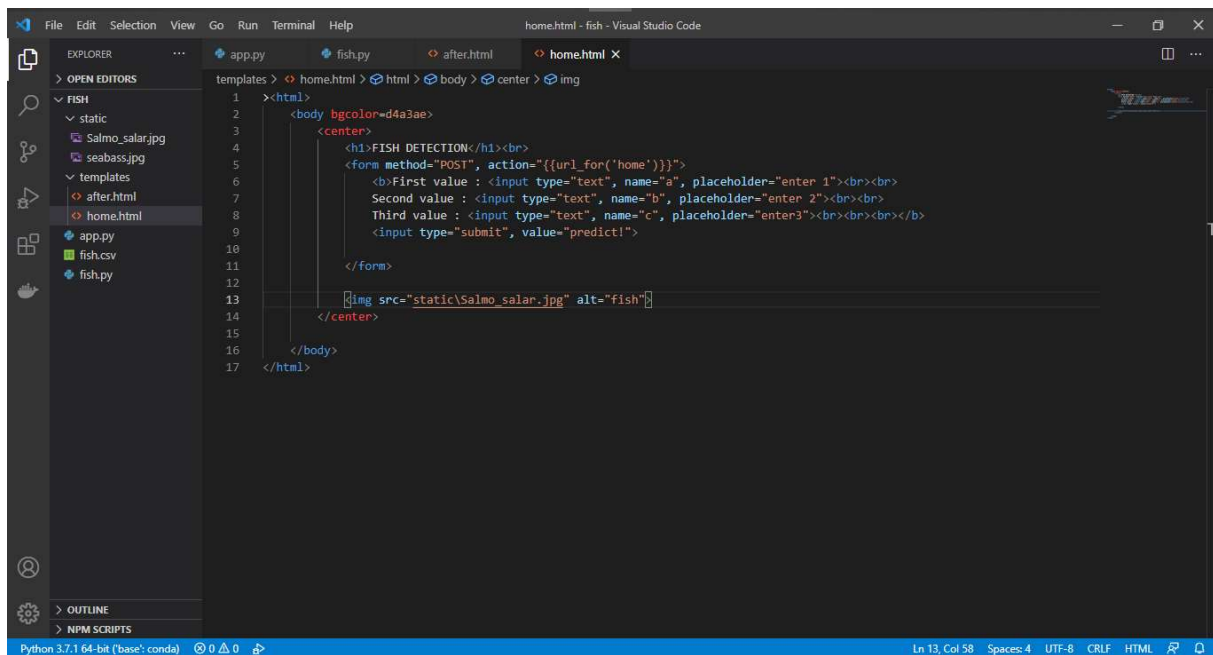
```
1 from flask import Flask, render_template, request
2 import pickle
3 import numpy as np
4
5 model = pickle.load(open('fish.pkl', 'rb'))
6
7 app = Flask(__name__)
8
9 @app.route('/')
10 def man():
11     return render_template('home.html')
12
13 @app.route('/predict', methods = ['POST'])
14 def home():
15     data1 = request.form['a']
16     data2 = request.form['b']
17     data3 = request.form['c']
18     arr = np.array([[data1, data2, data3 ]])
19     pred = model.predict(arr)
20     return render_template('after.html', data = pred)
21
22
23 if __name__ == "__main__":
24     app.run(debug=True)
```

Figure 2 The main program to run which is app.py



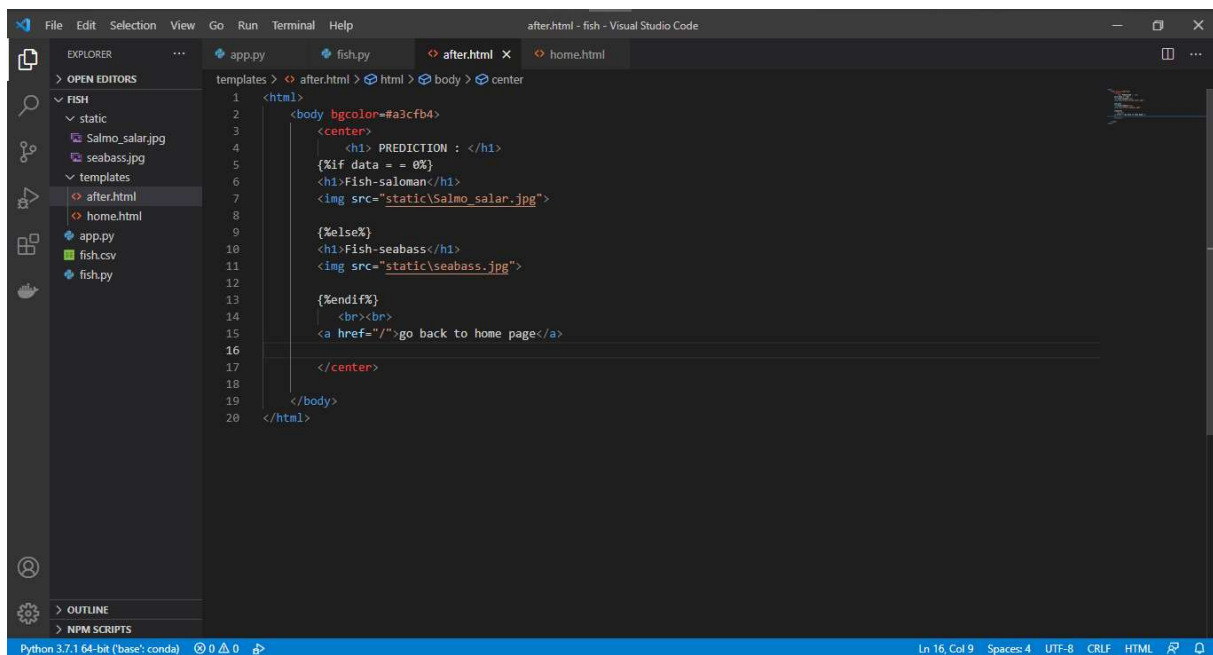
```
1 import pandas as pd
2 import numpy as np
3 import pickle
4
5 df = pd.read_csv('fish.csv')
6
7 X = np.array(df.iloc[:, 0:3])
8 y = np.array(df.iloc[:, 3:])
9
10 from sklearn.preprocessing import LabelEncoder
11 le = LabelEncoder()
12 y = le.fit_transform(y)
13
14 from sklearn.model_selection import train_test_split
15 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2)
16
17 from sklearn.svm import SVC
18 sv = SVC(kernel = 'linear').fit(X_train, y_train)
19
20 pickle.dump(sv, open('fish.pkl', 'wb'))
```

Figure 1 Linear model for fish dataset which is fish.py



```
1 <html>
2   <body bgcolor=d4a3ae>
3     <center>
4       <h1>FISH DETECTION</h1><br>
5       <form method="POST", action="{{url_for('home')}}">
6         <b>First value : <input type="text", name="a", placeholder="enter 1"><br><br>
7         Second value : <input type="text", name="b", placeholder="enter 2"><br><br>
8         Third value : <input type="text", name="c", placeholder="enter3"><br><br><br></b>
9         <input type="submit", value="predict!">
10      </form>
11    </center>
12    
13  </body>
14</html>
```

Figure 4 The html code for the design of the home page that is home.html



```
1 <html>
2   <body bgcolor=#a3cfb4>
3     <center>
4       <h1> PREDICTION : </h1>
5       {%if data == 0%}
6       <h1>Fish-saloman</h1>
7       
8     {%else%}
9     <h1>Fish-seabass</h1>
10    
11  {%endif%}
12  <br><br>
13  <a href="/">go back to home page</a>
14</center>
15</body>
16</html>
```

Figure 3 The html code for the page design after input values are entered that is after.html

```
1 length,lightness,width,type
2 13,0.8,20.7,salmon
3 14,1,18.7,salmon
4 8,1.1,19.9,salmon
5 3,1.5,14.6,salmon
6 14,1.3,15.6,salmon
7 22,1.5,16.5,salmon
8 5,1.3,17.2,salmon
9 3,1.4,18.4,salmon
10 14,1.4,21.2,salmon
11 3,1.3,21.5,salmon
12 5,1.6,21.3,salmon
13 22,1.6,20.1,salmon
14 2,1.6,19.4,salmon
15 4,2.05,16,salmon
16 21,2,16.6,salmon
17 21,2.04,17.1,salmon
18 2,2,18.2,salmon
19 15,1.96,20,salmon
20 15,2,20.5,salmon
21 23,2.1,19.1,salmon
22 15,2.2,18.1,salmon
23 22,2.5,15.2,salmon
24 16,2.55,17.2,salmon
25 8,2.55,19.3,salmon
26 21,2.8,20.1,salmon
27 16,2.82,16.2,salmon
28 17,2.85,18.1,salmon
29 9,3,18.8,salmon
30 16,2.9,19.5,salmon
31 17,2.8,21,salmon
32 6,2.94,16.5,salmon
33 7,2,16.6,salmon
```

Figure 5 fish.csv