

Application Building(screen shot)

Html Code

```
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web.html - Visual Studio Code

web.html x
I:\> Projects > WQP > templates > web.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta http-equiv="X-UA-Compatible" content="IE=edge">
7     <meta name="viewport" content="width=device-width, initial-scale=1.0">
8     <title>WQI</title>
9     <link rel="stylesheet" href="../static/css/style.css">
10
11 </head>
12
13 <body>
14     <header>
15         <nav>
16             <div class="row">
17                 <div class="row2">
18                     <h1>Urban Water Quality Prediction</h1>
19                 </div>
20             </div>
21         </nav>
22     </header>
23     <main>
24
25         <div class="column">
26             <form action="/login" method="post">
27                 <label for=""></label>
28                 <input type="text" name="year" id="" placeholder="Enter Year">
29                 <label for=""></label>
30
```

Build Python Code

```
*app.py - I:\Projects\WQP\app.py (3.10.1)*
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import numpy as np
from flask import Flask,render_template,request
import pickle
app= Flask(__name__)
model=pickle.load(open(r'I:\Projects\WQP\wqi.pkl', 'rb'))
@app.route('/')
def home() :
    return render_template("web.html")
@app.route("/login",methods = ['POST'])
def login() :
    year = request.form["year"]
    do = request.form["do"]
    ph = request.form["ph"]
    co = request.form["co"]
    bod = request.form["bod"]
    tc = request.form["tc"]
    na = request.form["na"]
    total = [[float(do),float(ph),float(co),float(bod),float(na),float(tc)]]
    y_pred = model.predict(total)
    y_pred = y_pred[0]
    if(y_pred >= 95 and y_pred<=100):
        return render_template("web.html",showcase = 'Excellent, The Predicted Value Is'+ str(y_pred))
    elif(y_pred >= 89 and y_pred<=94):
        return render_template("web.html",showcase = 'Very Good, The Predicted Value Is'+ str(y_pred))
    elif(y_pred >= 80 and y_pred<=88):
        return render_template("web.html",showcase = 'Good, The Predicted Value Is'+ str(y_pred))
    elif(y_pred >= 65 and y_pred<=79):
        return render_template("web.html",showcase = 'Fair, The Predicted Value Is'+ str(y_pred))
    elif(y_pred >= 45 and y_pred<=64):
        return render_template("web.html",showcase = 'Marginal, The Predicted Value Is'+ str(y_pred))
    else:
        return render_template("web.html",showcase = 'Poor, The Predicted Value Is'+ str(y_pred))

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

Run Flask App

