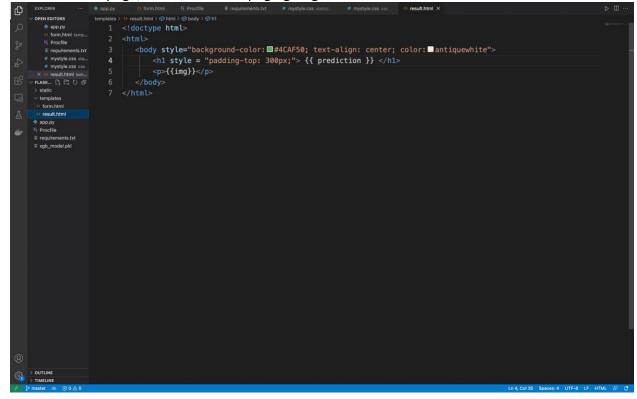
Name: Runtao Zhou, Batch Code: LISUM13: 30, Submit to: Data Glacier team, Submission Date: 09/18/2022

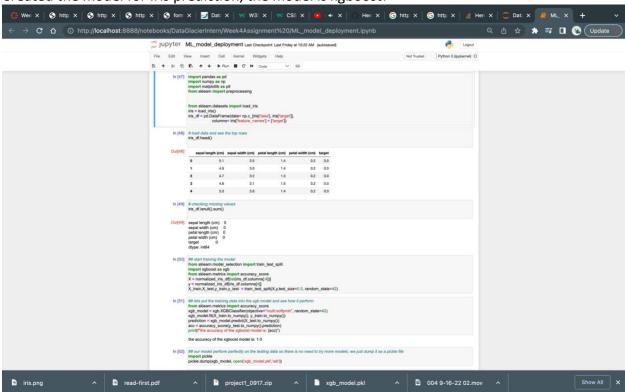
Created the form.html, this is the index page for our web application

```
    app.py
    form.html temp...
    Procfile
                     <form action="/result" method="POST">
                       <div style = "padding: 20px 0; border: 3px solid □green;text-align: center; font-weight: bold;color: ■whi</p>
                         <label for="">sepal length (cm)</label>
                         <input type="text" id="sepal_length" name="sepal_length">
                         <div class="help-tip">
                           Sepal: each of the parts of the calyx of a flower, enclosing the petals and typically green and lea
○ form.html
                             Typical Sepal Length for Iris: 4-8 cm
                       <div style = "padding: 20px 0; border: 3px solid □green;text-align: center; font-weight: bold;color: ■whi
                         <label for="sepal width (cm)">sepal width (cm)</label>
                         <input type="text" id="sepal_width" name="sepal_width">
                         <div class="help-tip">
                           Sepal: each of the parts of the calyx of a flower, enclosing the petals and typically green and lea
                             Typical Sepal Width for Iris: 2-5 cm
                       <div style = "padding: 20px 0; border: 3px solid □green;text-align: center; font-weight: bold;color: ■whi
                         <label for="petal length (cm)">petal length (cm)</label>
                         <input type="text" id="petal_length" name="petal_length">
                         <div class="help-tip">
                           Petal: each of the segments of the corolla of a flower, which are modified leaves and are typically
                             Typical Petal Length for Iris: 1-7cm
                       <div style = "nadding: 20nx 0: horder: 3nx solid □oreen:text-align: center: font-weight: hold:color: □whi</p>
```

Created result page, this is what the page going to take us after we click submit



Created the model for Iris prediction, the model is xgboost.

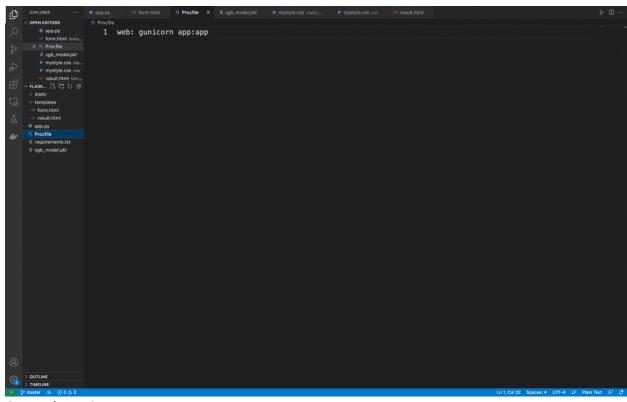


Write the app.py file, it is a written using flask

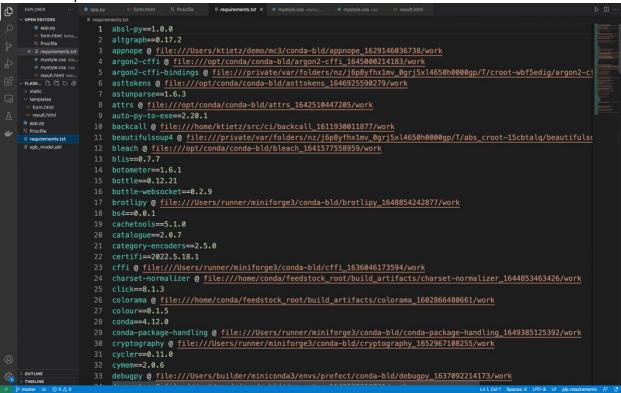
```
× • app.py
o form.html temp
                     from flask import Flask,request,jsonify,render_template
  E xgb_model.pkl
# mystyle.css sta...
# mystyle.css css
                  app = Flask(__name__)
6 model = pickle.load(open("xgb_model.pkl","rb"))
> static
> templates

of form.html
                  8 @app.route("/")
                  9 def Home():
                         return render_template("form.html")
                 12 @app.route("/result", methods=['POST'])
                  13 def result():
                           if request.method == 'POST':
                             features = [num for num in request.form.values()]
                              final_features = [[float(num) for num in features]]
                              prediction = model.predict(final_features)
                             types = ""
if prediction[0] == 0:
                                   types = "Setosa"
                               elif prediction[0] == 1:
                                  types = "Versicolour"
                                  types = "Virginica"
                              return render_template('result.html',prediction = "based on your result, the Iris type is {}".format(ty
                 28 if __name__ == "__main__":
                 29 app.run(debug = True)
```

Created Procfile for heroku



Created requirements.txt



Make sure our webapp run perfectly

