

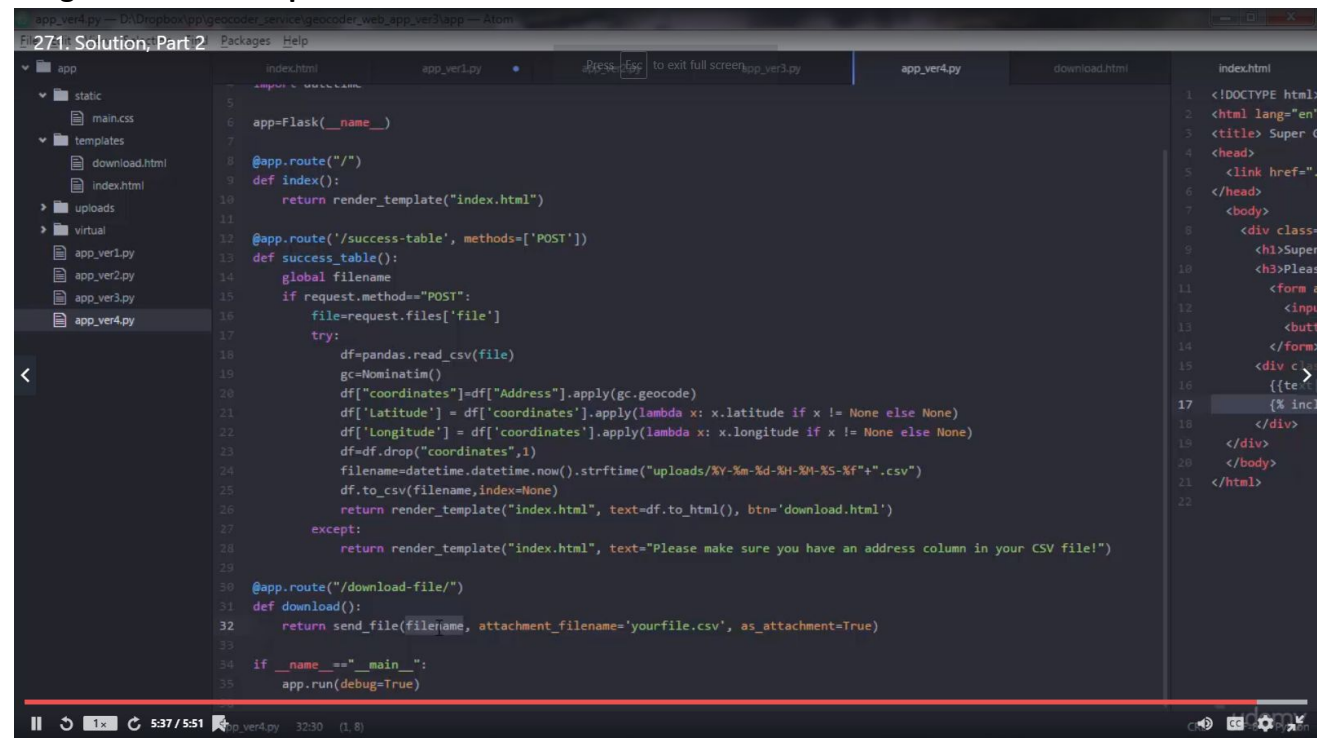
REPORT JUNE 06

Date: 06 JUNE 2020
Course: Python On Udemy
Topic: Geocoder

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Semester & Section: 6 B

AFTERNOON SESSION DETAILS

Image of session: Output



```
app_ver4.py — D:\Dropbox\app\geocoder_service\geocoder_web_app\ver3\app — Atom
271: Solution, Part 2 Packages Help
▼ app
  static
  main.css
  templates
  download.html
  index.html
  uploads
  virtual
  app_ver1.py
  app_ver2.py
  app_ver3.py
  app_ver4.py
index.html
app_ver1.py
app_ver2.py
app_ver3.py
app_ver4.py
5
6 app=Flask(__name__)
7
8 @app.route("/")
9 def index():
10     return render_template("index.html")
11
12 @app.route('/success-table', methods=['POST'])
13 def success_table():
14     global filename
15     if request.method=="POST":
16         file=request.files['file']
17         try:
18             df=pandas.read_csv(file)
19             gc=Nominatim()
20             df["coordinates"]=df["Address"].apply(gc.geocode)
21             df['Latitude'] = df['coordinates'].apply(lambda x: x.latitude if x != None else None)
22             df['Longitude'] = df['coordinates'].apply(lambda x: x.longitude if x != None else None)
23             df=df.drop("coordinates",1)
24             filename=datetime.datetime.now().strftime("uploads/%Y-%m-%d-%H-%M-%S-%f"+"").csv")
25             df.to_csv(filename,index=None)
26             return render_template("index.html", text=df.to_html(), btn='download.html')
27         except:
28             return render_template("index.html", text="Please make sure you have an address column in your CSV file!")
29
30 @app.route("/download-file/")
31 def download():
32     return send_file(filename, attachment_filename='yourfile.csv', as_attachment=True)
33
34 if __name__=="__main__":
35     app.run(debug=True)
```

app.py

```
from flask import Flask, render_template, request, send_file
from geopy.geocoders import ArcGIS
import pandas
import datetime
app=Flask(__name__)
@app.route("/")
def index():
    return render_template("index.html")
@app.route('/success-table', methods=['POST'])
def success_table():
    global filename
    if request.method=="POST":
        file=request.files['file']
        try:
            df=pandas.read_csv(file)
            gc=ArcGIS(scheme='http')
            df["coordinates"]=df["Address"].apply(gc.geocode)
            df['Latitude'] = df['coordinates'].apply(lambda x: x.latitude if x != None else None)
            df['Longitude'] = df['coordinates'].apply(lambda x: x.longitude if x != None else None)
            df=df.drop("coordinates",1)
            filename=datetime.datetime.now().strftime("sample_files/%Y-%m-%d-%H-%M-%S-%f"+"%.csv")
            df.to_csv(filename,index=None)
            return render_template("index.html", text=df.to_html(), btn='download.html')
        except Exception as e:
            return render_template("index.html", text=str(e))

@app.route("/download-file/")
def download():
    return send_file(filename, attachment_filename='yourfile.csv', as_attachment=True)

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

download.html

```
<!DOCTYPE html>
<html lang="en">
<div class="download">
<a href={{url_for('download')}} target="blank"> <button class="btn"> Download </button></a>
</div>
</html>
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<title> Super Geocoder </title>
<head>
```

```
<link href="../../static/main.css" rel="stylesheet">
</head>
<body>
  <div class="container">
    <h1>Super Geocoder</h1>
    <h3>Please upload your CSV file. The values containing addresses should be in a column named
    <em>address</em> or <em>Address</em></h3>
    <form action="{{url_for('success_table')}}" method="POST" enctype="multipart/form-data">
      <input type="file" accept=".csv" name="file" />
      <button type="submit"> Submit </button>
    </form>
    <div class="output">
      {{text|safe}}
      {% include btn ignore missing %}
    </div>
  </div>
</body>
</html>
```