

DAILY ASSESSMENT FORMAT

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Course:	Python	USN:	4a17ec030
Topic:	Application 10: Project Exercise on Building a Geocoder Web Service	Semester & Section:	6th A
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AFTERNOON SESSION

Image of session

```

1 from flask import Flask, render_template, request, send_file
2 from geopy.geocoders import Nominatim
3 import pandas
4
5 app = Flask(__name__)
6
7 @app.route("/")
8 def index():
9     return render_template("index.html")
10
11 @app.route("/success table", methods=['POST'])
12 def success_table():
13     if request.method == "POST":
14         file = request.files["file"]
15         df = pandas.read_csv(file)
16         geolocations = df["coordinates"].apply(lambda x: x.latitude if x != None else None)
17         df["latitude"] = df["coordinates"].apply(lambda x: x.latitude if x != None else None)
18         df["longitude"] = df["coordinates"].apply(lambda x: x.longitude if x != None else None)
19         df.to_csv("uploads/geocoded.csv", index=False)
20         return render_template("index.html", text=df.to_html(), href="download.html")
21
22 @app.route("/download file")
23 def download_file():
24     return send_file("uploads/geocoded.csv", attachment_filename="yourfile.csv", as_attachment=True)
25
26 if __name__ == "__main__":
27     app.run(debug=True)

```

Report

Geocoding request and response (latitude/longitude lookup)

The following example requests the latitude and longitude of "1600 Amphitheatre

- Parkway, Mountain View, CA", and specifies that the output must be in JSON format.
- You can test this by entering the URL into your web browser (be sure to replace YOUR_API_KEY with your actual API key).
- The response includes the latitude and longitude of the address.