DAILY ASSESSMENT FORMAT

Date:	06-06-2020	Name:	Jagadeesha Hegde
Course:	Logic Design	USN:	4AL17EC036
Topic:	Application 10: Project Exercise on Building a Geocoder Web Service	Semester & Section:	6th A-sec
Github Repository:	Jagadeesha-036		

FORENOON SESSION DETAILS Image of session ${\it app_ver3.py-D:Dropbos:pp:geocoder_service:geocoder_web_app_ver3:app-Atomics:pp:geocoder_service:geocoder_web_app_ver3:app-Atomics:pp:geocoder_service:geocoder_web_app_ver3:app-Atomics:pp:geocoder_service:geocoder:g$ from flask import Flask, render_template, requ from geopy.geocoders import Nominatim import pandas def success_table(): if request.method=="POST": file=request.files['file'] gc-Nominatis() df["coordinates"]-df["Address"].apply(gc.geocode) df['Latitude'] = df['coordinates'].apply(lambda x: x.latitude if x != Nome df'('Longitude') = df['coordinates'].apply(lambda x: x.longitude if x != No df\df.drop("coordinates",1) df.to_csv("uploads/geocoded.csv",index=Nome) return render_template("index.html", text=df.to_html(), btn='download.html __name__=="__main__": app.run(debug=True)

Report – Report can be typed or hand written for up to two pages.

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.

View the developer's guide for more information about building geocoding request URLs and available parameters and understanding the response.

Below is a sample geocoding response, in JSON:

```
{
    "results":[
    {
        "address_components":[
        {
            "long_name":"1600",
            "short_name":"1600",
            "types":["street_number"]
        },
        {
            "long_name":"Amphitheatre Parkway",
            "short_name":"Amphitheatre Pkwy",
            "types":["route"]
        },
        {
            "long_name":"Mountain View",
        }
}
```

```
"short_name" : "Mountain View",
  "types" : [ "locality", "political" ]
},
{
   "long_name": "Santa Clara County",
  "short_name": "Santa Clara County",
  "types": [ "administrative_area_level_2", "political" ]
},
{
  "long_name": "California",
  "short_name": "CA",
  "types": [ "administrative_area_level_1", "political" ]
},
{
   "long_name": "United States",
   "short_name": "US",
   "types": [ "country", "political" ]
},
   "long_name": "94043",
    "short_name": "94043",
     "types":["postal_code"]
   }
 ],
  "formatted_address": "1600 Amphitheatre Pkwy, Mountain View, CA 94043, USA",
   "geometry" : {
   "location" : {
   "lat": 37.4267861,
   "lng": -122.0806032
 },
```

```
"location_type": "ROOFTOP",
        "viewport" : {
        "northeast" : {
        "lat": 37.4281350802915,
       "Ing": -122.0792542197085
      },
        "southwest" : {
        "lat": 37.4254371197085,
        "lng": -122.0819521802915
      }
   }
 },
 "place_id": "ChlJtYuu0V25j4ARwu5e4wwRYgE",
 "plus_code": {
 "compound_code": "CWC8+R3 Mountain View, California, United States",
 "global_code": "849VCWC8+R3"
},
"types": ["street_address"]
}
],
"status": "OK"
}
```

Reverse geocoding request and response (address lookup) The following example requests the address corresponding to a given latitude/longitude in Brooklyn, NY, USA. It 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 a human-readable address for the latitude and longitude location.

