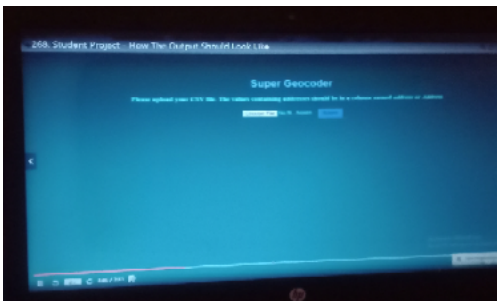
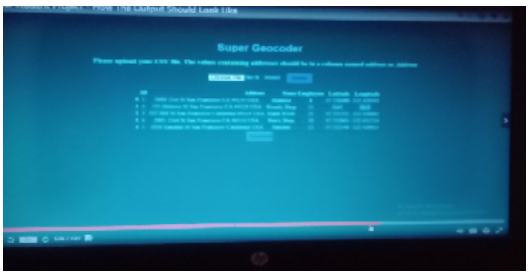
JUNE 2 REPORT

Date:	06/06/20	Name:	ANKITHA C C
Course:	Python	USN:	4AL16EC004
Topic:	Build a Data Collector Web App with PostGreSQL and Flask Project Exercise on Building a Geocoder Web Service	Semester & Section:	8TH & A
Github Repository:	ankitha-course		

FORENOON SESSION DETAILS

Image of session





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

Creating an API or Web application using python has been made easy with Flask. It is a micro web framework written in Python.

Here you will create a python server using Flask, create database with PostgreSQL and deploy it on Heroku.

We will create a simple application to store details of books and get stored data to demonstrate database transactions with our python server here.

So here we use,

python

Flask

PostgreSQL

Heroku CLI

git

Steps we follow here,

Install PostgreSQL to local machine

Install Heroku CLI

Create python virtual environment for the project

Create a sample code with Flask to check

Create database

Create configurations

Database migration

Finish the code

Commit changes using git and push to Heroku

Web Services

Geocoding API

Go to Console

Contact sales

Google Maps Platform

Maps Platform

Home

Products

Google Maps Platform

Documentation

Web Services

Geocoding API

Send feedback

Get Started

New Users: Before you can start using the Google Maps Platform APIs and SDKs, you must sign up and create a billing account. To learn more, see Get Started with Google Maps Platform.

The Geocoding API is a service that provides geocoding and reverse geocoding of addresses.

This service is also available as part of the client-side Google Maps JavaScript API, or for server-side use with the

Java Client, Python Client, Go Client and Node.js Client for Google Maps Services.

Geocoding is the process of converting addresses (like a street address) into geographic coordinates (like latitude and longitude), which you can use to place markers on a map, or position the map.

Reverse geocoding is the process of converting geographic coordinates into a human-readable address.

You can also use the Geocoding API to find the address for a given place ID.

Sample request and response

You access the Geocoding API through an HTTP interface. Following are examples of geocoding and reverse geocoding requests.

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.

End of the Course

Ladies and gentlemen, congratulations on completing the course! I wanted to tell you that this is a huge achievement that not everyone has the willpower to do. I can see that from the course statistics.

I am sure this is a huge step to kickstarting your programming career. I am very happy you were my student and followed everything I had to teach you throughout this long course which I have created with a lot of commitment and passion.

I wish you great success in your future projects and hope to have given you a positive push in your endeavors!

Ardit Sulce

Certificate