**DAILY ASSESSMENT**

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| **Date:** | **06/06/20** | **Name:** | **Russell dsouza** |
| **Course:** | **Python** | **USN:** | **4AL15EC023** |
| **Topic:** | **Project Exercise on Building a Geocoder Web Service** | **Semester & Section:** | **8TH & A** |
| **Github Repository:** | **Russell1005** |  |  |

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| **AFTERNOON 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**  **Python certificate.jpg** |
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