ECE Senior Design Weekly Report

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Team Name: Globetrotters Lab Section: TH

Week’s Task: Work more with the APIs and start storing information into MySQL database using Python. Research ways to interface with voice recognition.

Results:

MySQL Database and Python

* Uses the MySQLdb python library to connect to the database and execute queries
* Created script to gather country names, population, region, subregion, latitude, and longitude and store them in a table with the correct encoding
* Working on scripts to search the database for relevant information before making calls to API (try to reduce response time of queries)
* Working on script to gather images of location and store locally for use on display
* Also looked into ways to export MySQL tables to MongoDB (if needed later to work with an existing database)

Voice Recognition

* Looked into NLP software to identify location names in strings
* Explored options to parse input strings and search for location names from a table
* Began looking at Alexa Voice Service as another option to identify locations in a sentence

Summary

This week I worked on writing scripts in order to store our information into a database and also find information about locations that are not countries. Currently all the stored locations in the database are countries and I would like to start forming a table of cities that we can add onto if we don’t have information about it already. Since I do have preliminary data about countries though, I would like to dive deeper into voice recognition methods that I have found as well as other options recommended to me by other group members.