**Web Programming Languages – Assignment 4**

**Due Date:** April 21, 2021, 11:59PM

In this assignment, you will show your favorite restaurants and cafes on Google Map using Maps JavaScript API.

You will store your favorite restaurants/cafes in MySQL database and when the html page is loaded will make an AJAX call to a Python/Flask script. Python script will return the results in JSON form and you will parse the results and use each address information (latitude and longitude) for marking the location on the map.

For each marker, create an info window that will display name and adress information when clicked on the marker.

You can center the map around your favorite city and manually insert 5-10 different markers (favorite restaurants and cafes in/around the chosen city) into the database table.

Database name: FavoritePlaces

Table name: Restaurants

Graphical user interface

Description automatically generated

You can also use below SQL command to create the table.

CREATE TABLE `Restaurants` (  
  `id` INT NOT NULL AUTO\_INCREMENT PRIMARY KEY ,  
  `name` VARCHAR( 60 ) NOT NULL ,  
  `address` VARCHAR( 80 ) NOT NULL ,  
  `lat` FLOAT( 10, 6 ) NOT NULL ,  
  `lng` FLOAT( 10, 6 ) NOT NULL ,  
  `type` VARCHAR( 30 ) NOT NULL  
) ENGINE = MYISAM ;

Type will take values “restaurant” and “cafe”.

**Solution hint:**

You can use jsonif() function in Flask to convert database query results into JSON.

from flask import jsonify

rows = cursor.fetchall()

response = jsonify(rows)

return response

and JSON.parse() function (in Javascript) to parse the results.

**Deliverables:**

Screenshot of the results

Source files —HW4-yournetid.zip