**Web Programming Languages - Practice Work 6**

**Due date:** March 27, 11:59PM

On an html page, provide a textbox for the user to enter an address. When the user clicks on the “Search” button:

Using Google Maps API, first find the latitude and longitude for the given address (Geocoding Service) and then find all nearby schools (within 2000 meters) for that latitude and longitude (Places Library, nearbySearch function(define location|boundary)).

Show/mark schools on Google maps.

Mandatory:

1. Center location
2. Zoom level

Graphing

**Resources:**

<https://developers.google.com/maps/documentation/javascript/tutorial>

<https://developers.google.com/maps/documentation/geocoding/start>

<https://developers.google.com/maps/documentation/javascript/places>

Geocoding example: (how it works in explanation.)

<https://developers.google.com/maps/documentation/javascript/examples/geocoding-simple>

Instead of the fixed LL, use the user’s geo location and searched based on that location.

Return Json

Similar to the search function.

**New one object**

geocoder = new google.maps.Geocoder();

**under function geocode**

.geocode(request)

submitButton.addEventListener("click", () =>  
    geocode({ address: inputText.value })

**Gives back the array**

map.setCenter(results[0].geometry.location);

**Note:**

You will need a valid API key for using Google Maps. Please do not use the one given in hands-on example. Follow the instructions below to create a new API key.

When you create the key, it gives you $300 credit for free trial and $200 recurring credit for each month. You can share your key with a trusted circle of friends (so that not everyone will need to create a key and give their credit card number).

<https://developers.google.com/maps/documentation/javascript/get-api-key>

**Deliverables**

Screenshots for search results for 2 different addresses

Source file(s) – PW6-yournetid.zip