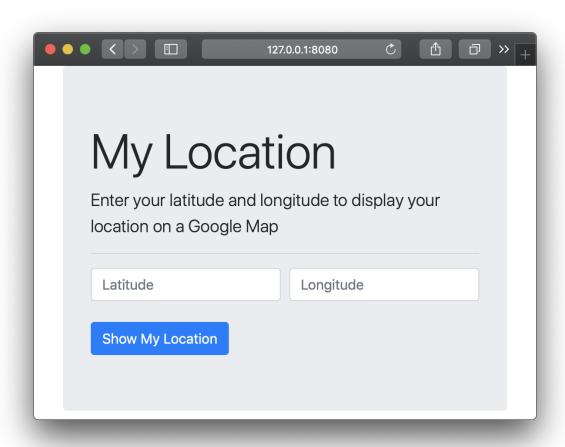
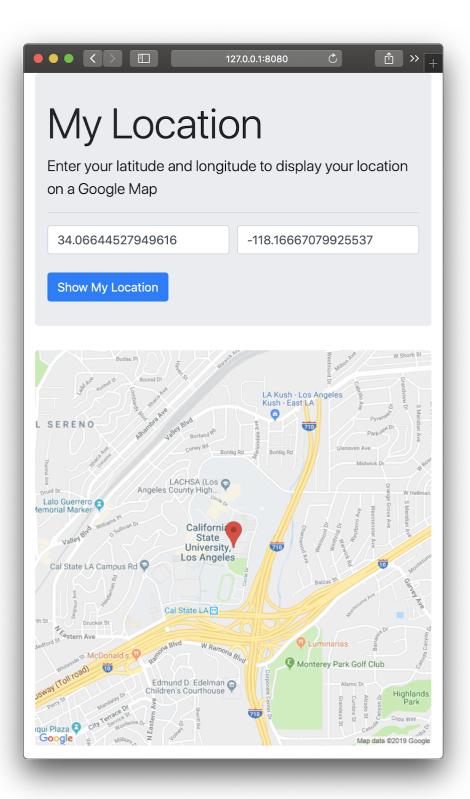
You are to create a Vue.js application that will allow a User to enter a latitude and longitude, and view the corresponding location on a **static** Google Map. Note that the map is static, meaning it should not be interactive.

To accomplish this, you are to create a Single Page Component named my-map. This component will be dynamically updated with the form data on your page.

Here is an example webpage:



Once the User enters their latitude and longitude and clicks the "Show My Location" button, you should display their location on a static Google Map. The map should contain a marker at the User's specified location.



Here is a link to Google's Static Maps API:

https://developers.google.com/maps/documentation/maps-static/dev-guide

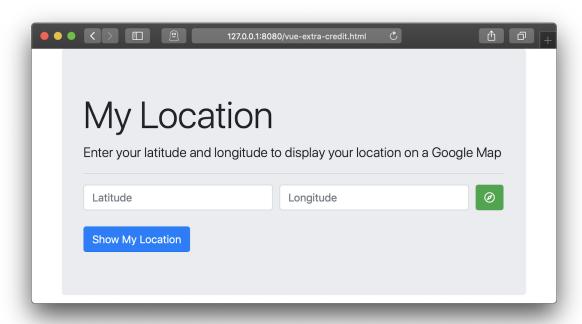
The expected use of your component is outlined below. You will need to determine how to dynamically update the latitude and longitude when the user clicks the "Show My Location" button.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
 </l></l></l></l></l></l
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
 <title>CS4220 Final</title>
</head>
<body>
 <div class="container">
   <div class="jumbotron">
     <h4 class="display-4">
       My Location
     </h4>
     Enter your latitude and longitude to display your location on a Google Map
     <hr>
     <form>
       <div class="form-row">
          <div class="col">
           <input type="text" name="lat" id="lat" placeholder="Latitude" class="form-control">
          </div>
          <div class="col">
            <input type="text" name="lon" id="lon" placeholder="Longitude" class="form-control">
          </div>
       </div>
       <div class="form-row">
          <div class="col">
           <input type="submit" value="Show My Location" class="btn btn-primary mt-4" >
          </div>
       </div>
     </form>
   </div>
   <my-map lat="34.066445" lon="-118.166670"></my-map>
  </div>
</body>
</html>
```

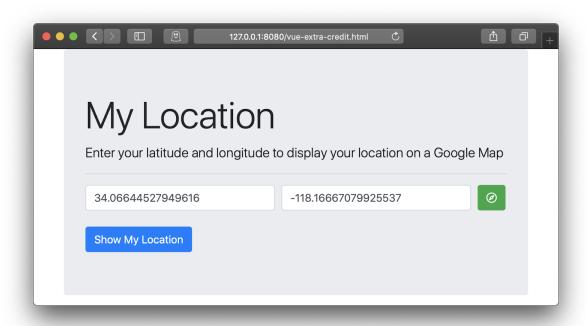
Extra Credit

For extra credit, you can have auto-detect the User's latitude and longitude. To do this, add a button to your form that, when clicked, retrieves the User's geolocation.

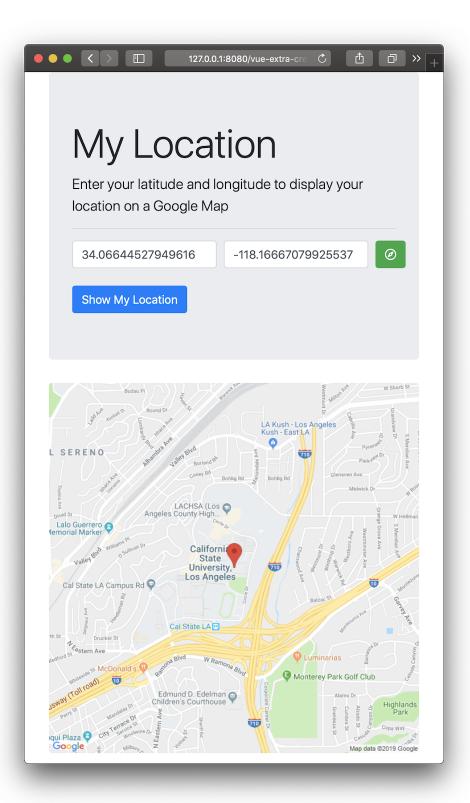
Here is an example of what your UI may look like:



Upon clicking the green icon, the latitude and longitude should be automatically populated on the form like so:



Now, as before, when the User clicks the "Show My Location" button, it will display the location of the User's latitude and longitude on a static Google Map.



Grading

- 50pts Single-Page Vue.js Component my-app
- 30pts Static Google Map
- 20pts Marker at the specified location on the map
- 1-2 minute video showing the HTML, Styles, and Javascript behind your component.

Extra Credit

- "Locate Me" functionality that detects the Users latitude and longitude
 - When doing the extra credit, you may add an additional 30 seconds to your video to outline your code.

How to submit your work:

- 1. Source Code to CSNS
- 2. Video presentation to CSNS