

# DMIT2503 – Advanced Web Concepts

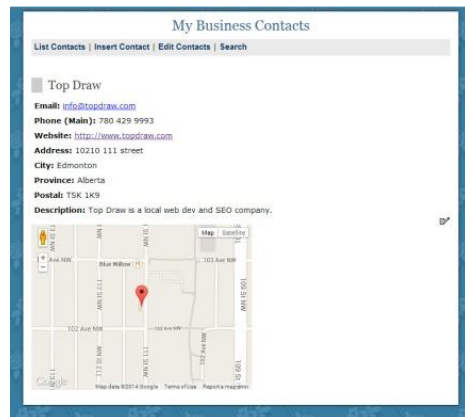
## Lab 5: Google Maps API

**Overview:** Based on the lessons in Google Maps API, please show the following:  
10 marks: Worth 10% of final mark.

1. **[7 marks] Google Maps Javascript API Basics:** One page with one map holder that shows 2 different maps of any locations except Edmonton. This map holder should be embedded within a web design with additional text content and styled accordingly.

Please show the following in any of the two maps:

1. Have a styled link that loads each map. One should load automatically when page loads.
  2. One map should have all controls removed.
  3. Please have one roadmap and one of a different map type of your choice.
  4. Any 2 different shapes: circle, rectangle, polygon.
  5. At least 2 markers: Each should have an infowindow.
    - i. One should have a well designed infowindow that shows by default when the map loads.
    - ii. One marker should have a custom icon.
  6. One map (your roadmap) should have a custom style. If you don't have an API key, the instructor can glance at your code to see that this is in place.
2. **Do either one of the following for 3 marks:**



on the address.

- Also, place a marker on that address location.
- Title the marker with the company's name.
- You may plot each address on a single map in Company Profile (as per the demo), or you can instead plot ALL companies on a single map in a listing page.
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### 1. GeoCode Challenge – API Key

**Required:** As per the instructor's demo, show a use of addresses stored in a database being used to dynamically plot a location(s) on a Google Map. The Contacts Database is a perfect project to do this, but you may use another if you wish.

- Search the Google developer documentation for geocode example.

- Since you can now receive the lat and lng of an address, create a Google Map using the Javascript API centered

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## 2. Overlay Click – No API Key Required (Developer Mode):

- Show a well styled page integrating a Google map with several (3 or more) overlays including at least one marker with a custom icon and at least one shape (polygon, circle, or rectangle).
- Each overlay will have an event listener added to it that can change the content of another <div> in your page.
  - `document.getElementById("locationdescription").innerHTML = "";`
- Please aim for real content (no lorem ipsum) that described the locations marked by your overlays.
- Marks for the following:
  - Map is well designed and integrated into an existing web layout.
  - Overlays are well designed and show actual functional regions or locations on the map.
  - The content being changed is well designed, descriptive of the regions/locations, and includes well formatted headings, paragraphs and images.