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## Final Project Write-up

For the final project I decided to expand on the Google Maps API. The final result is essentially a fully functioning Google map that allows you to sign in, go to street view, change map styles, and search for places. All of the features are baked in to the Google API, but I implemented them and made them work cohesively. I followed the Google Material Design guidelines to make it look cohesive, but I did change some of the colors and font sizes.

The three features that I expanded on from the original map project is the ability to sign in to your google account, search for nearby places and use the Google autocomplete feature. The sign in feature was actually incredibly easy to implement, but adds a whole new layer of functionality. It allows the user to save locations to their own map account and open it in the “real” maps browser. This function only required me to change the API link in the html file. By adding: “&signed\_in=true” Google called the sign in function. I also added a places search bar. By adding: “&libraries=places” to the API link in the html file I was able to pull the API functionality. However, the search function required additional javascript functionality as well as CSS styling. I had to localize the search results and incorporate the Google Places autocomplete feature. To localize the results I had to recognize the map bounds and apply the results to the map bounds. I adapted my project from the Google Maps API documentation which is extensive and incredibly helpful. Without that documentation I would not have been able to do this project. <https://developers.google.com/maps/documentation>