Autocomplete function in Google Maps API

Google-2.html, autocomplete.html

I have created a simple HTML page, which returns a Google Map and has the autocomplete field. When the user starts to type a name of a place, the Autocomplete bounds give them suggestions. In order to show the map and the input fields, I use <div> and <input> tags. I use CSS in order to make nice user interface.

You need to have a developer account in Google, in order to use the Google Map API and you need to get your unique API key. In the HTML code you define it in a <script> tag. In another <script> tag you define the library called places, which contains all possible addresses in the world.

In a third <script> tag you initialize the map. You need to first define a map object with parameters center, which is equal to the center position in the map (in this case: lat: 42.7 deg. North, lon: 23.4 deg. East, which is Sofia Airport, Bulgaria) and the zoom (in our case 13).

Then we need to define the Autocomplete bounds and to bind them to the map. When we find a place using the autocomplete search field, we call a pop-up window with info about the place (for now: full address). We create a marker object, which will appear in a certain position of the map (which is set in our case to (0, 0)), when we find another place on the map.

We have an event listener for the autocomplete event. In case we find the location, an icon and a pop-up window with information about the place will appear. The addresses will usually appear with two properties.

Getting the current location

Index.html

I have created another simple HTML page, which should load the map centered at the current location of the user. We link to two stylesheet files and to an API Google Map in a <script> tag. After the link we add a parameter sensor = true, which means that we are receiving the location from a sensor.

We initialize the map in the JS function initialize(). We declare a variable initialLocation which will store the user location and in case the servers don’t provide us with it, we use Sofia and Siberia as default locations.

We create also a Marker object, which will put a marker on the center of the map.