

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <meta charset="utf-8" />
6      <title></title>
7
8      <script type="text/javascript" src="http://code.jquery.com/jquery-1.9.1.js"></script>
9      <script type="text/javascript" src="js/jquery.touchSwipe.min.js"></script>
10     <script type="text/javascript" src="js/knockout-2.2.0.js"></script>
11     <script type="text/javascript" src="http://maps.google.com/maps/api/js?
12     libraries=geometry&sensor=true_or_false"></script>
13     <script type="text/javascript" src="js/data.js"></script>
14
15   </head>
16   <body>
17
18   <style>
19     html, body {
20       height: 100%;
21       margin: 0;
22       padding: 0;
23     }
24
25     #map {
26       height: 100%;
27     }
28
29
30     #floating-panel {
31       position: absolute;
32       top: 10px;
33       left: 5%;
34       z-index: 5;
35       background-color: #fff;
36       padding: 5px;
37       border: 1px solid #999;
38       text-align: center;
39       font-family: 'Roboto', 'sans-serif';
40       line-height: 30px;
41       padding-left: 10px;
42     }
43   </style>
44
45   <div id="floating-panel">
46     <b>Place: </b>
47     <input data-bind="value: userInput" />
48     <button data-bind="click: filterMarkers">Filter</button>
49   </div>
50   <div id="map"></div>
51
52   <script type="text/javascript" src="~/Scripts/knockout-2.3.0.debug.js"></script>
53   <script type="text/javascript" src="js/data.js"></script>
54
```

```
55 <script type="text/javascript">
56 var koViewModel = function(map,courses) {
57     var self = this;
58
59     self.googleMap = map;
60
61     self.allPlaces = [];
62     courses.forEach(function(place) {
63         self.allPlaces.push(new Place(place));
64     });
65
66     self.allPlaces.forEach(function(place) {
67         var markerOptions = {
68             map: self.googleMap,
69             position: place.latLng,
70             animation: google.maps.Animation.DROP
71         };
72
73         place.marker = new google.maps.Marker(markerOptions);
74     });
75
76     self.visiblePlaces = ko.observableArray();
77
78     self.allPlaces.forEach(function(place) {
79         self.visiblePlaces.push(place);
80     });
81
82     self.userInput = ko.observable('');
83
84     self.filterMarkers = function() {
85         var searchInput = self.userInput().toLowerCase();
86
87         self.visiblePlaces.removeAll();
88
89         self.allPlaces.forEach(function(place) {
90             place.marker.setMap(null);
91
92             if (place.name.toLowerCase().indexOf(searchInput) !== -1) {
93                 self.visiblePlaces.push(place);
94             }
95         });
96
97         self.visiblePlaces().forEach(function(place) {
98             place.marker.setMap(self.googleMap);
99         });
100     };
101
102     function Place(dataObj) {
103         this.name = dataObj.name;
104         this.latLng = dataObj.latLng;
105         this.marker = null;
106     }
107
108 };
109
```

```
110
111 function createMap() {
112     return new google.maps.Map(document.getElementById('map'), {
113         center: { lat: 33.444735, lng: -84.453223 },
114         zoom: 11
115     });
116 }
117
118 google.maps.event.addDomListener(window, 'load', function(){
119
120     var googleMap = createMap();
121     ko.applyBindings(new koViewModel(googleMap,courses));
122
123 });
124
125 </script>
126
127
128 </body>
129 </html>
130
```