HERE Maps API - Performing multiple concurrent search requests

Introduction

In this article we will examine the following usage of the HERE Maps API.

1. Multiple addresses exist, a total of 10 for this example.
2. A Map `Marker` is needed to be displayed for each of the addresses.
3. Finally the `ZoomLevel` needs to be set to cover all of the `Markers`.

This article enforces the correct use of the search.Manager in case of multiple concurrent requests.

Prerequisites

HERE Maps API supported web browser (basically any modern web browser).

Important note about maps credentials

Nokia provides several services options within the Maps API offering. The service is free to use, but you must obtain and use authentication and authorization credentials to use the services. Please read the Terms and Conditions and check the Pricing Plans page to decide which business model best fits your needs. Authentication requires unique Maps API credentials, namely an AppId and a token. You can get these credentials free for free following the instructions here

Implementation

```
function concurrentSearch(map){
 // we will put our address markers into this container
 addressContainer = new nokia.maps.map.Container();
 managersFinished = 0;

 //Addresses to be displayed
 addresses = ["Helsinki, Finland", "Zaragoza, Spain", "Berlin, Germany",
  "Colorado Springs, USA", "Houston, TX", "London, UK", "Vancouver, Canada",
  "Hyderabad, India", "Beijing, China", "Ilomantsi, Finland" ];
 var  i = addresses.length;

 // iterate over all addresses, create a manager for each of them,
 // add the observer and call the geocode method

 while(i--) {
  nokia.places.search.manager.geoCode({
   searchTerm :addresses[i],
   onComplete:  onSearchComplete
  });
 }
}
```

```
function onSearchComplete(data, requestStatus) {
 if (requestStatus == "OK") {
  // if we are finished, we add a marker for the mapped position
  addressContainer.objects.add(
   new nokia.maps.map.StandardMarker(data.location.position));
  //increment the counter to notify another manager has finished
  managersFinished++;
```


(C) Copyright Nokia 2014. All rights reserved.

```
  } else if(requestStatus === "ERROR") {
   // we'll also increment in case of an error
   managersFinished++;
  }

  // if all managers are finished, we call the final function
  if(managersFinished === addresses.length) {
   onAllManagersFinished();
  }
 }
```

```
function onAllManagersFinished() {
 //we get the bounding box of the container
 var bbox = addressContainer.getBoundingBox();

 // if the bounding box is null then there are no objects inside
 // meaning no markers have been added to it

 if (bbox != null) {
   // we have at least one address mapped
   // so we add the container and zoomTo it
   map.objects.add(addressContainer);
   map.zoomTo(bbox, true);
 } else {
   // otherwise we'll pop up an error message
   alert("There are no addresses to show :(");
 }
}
```

A fully working example can be found at:

http://rawgithub.com/heremaps/examples/master/maps_api_for_javascript/demos/concurrent-search-requests/index.html

(C) Copyright Nokia 2014. All rights reserved.

 (C) Copyright Nokia 2014. All rights reserved.