1. **Part 1: WMI -> Web API**
   1. Create a personal Cluster/Host/VM (using swagger directly)
   2. Use the WMI code from *last week* to write an app. The app should send periodically the following data to the Web API:

* processor usage %
* memory usage %
* timestamp (DateTime) of the measuring moment

The measurement should be done periodically. The frequency can be either hard-coded or configurable.

The app can be:

* a (text-based) console app
* a WinForms app

For steps to post data over HTTP, see: <http://www.asp.net/web-api/overview/advanced/calling-a-web-api-from-a-net-client>

For examples of a Json parser see: <http://www.newtonsoft.com/json/help/html/serializingjson.htm>

1. **Part 2: GUI navigation**
   1. Create an app to browse and navigate through the different levels of the data model.

* The app can be written in Angular 2
* Optionally, it can be written in WinForms
  1. Create a page to list all Clusters
  2. Create navigation to a Cluster overview page
* This page should show Cluster information and a list of all the Hosts contained in that Cluster (*hint*: Cluster data contains a list of Host IDs belonging to that Cluster)
  1. Create a Host details page
* This page should show Host details and a list of Virtual Machines contained in that Host
  1. Create a Virtual Machine details page
* This page should show Virtual Machine details
* It should *not* show Usage Data

1. **Part 3 (optional)**
2. Charting in GUI

Extend the GUI from Part 2 to visualize Usage Data in a chart. Chart possibilities should be discussed with the mentors

1. Writing your own Web API

Write your own Web API to replace the supplied API. For the strategy to follow, discuss it with the mentors

**Extra information:**

Provided API is located at:

<http://192.168.10.106/>