This RESTFul Web application stores iotlab project sensors measurements.  
Below a descrition of how to actually consume the API.

Curl utility is used to show as an example how to use the API without  
the API but overall this has to be done through scripts.

## Get all measurements

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements.json

## Insert a measurement

curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d ' {"measurement":{"experiment\_id":"32","resource\_id":"3232","measurement\_value":"321",  
"unit\_type":"string"}}' http://iotlabmongo.iotlab.eu/measurements

## Get measurements by experiment\_id and/or resource\_id

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurement\_by\_experimentresource?experiment\_id=32&resource\_id=3232  
  
curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurement\_by\_experimentresource?experiment\_id=32  
  
curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurement\_by\_experimentresource?resource\_id=3232

## Get measurements by created before

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurements\_before?date=Thu%20May%2012%2017:35:54%20CEST%202015

## Get measurements by created after

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurements\_after?date=Thu%20May%2012%2017:35:54%20CEST%202015

## Get the last measurement and if resource\_id is provided get the last measurement with that measurement id

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_measurements\_last

## Get the maximum sensor value for a given experiment and resource

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_max?experiment\_id=1&resource\_id=519

## Get the minimum sensor value for a given experiment and resource

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_min?experiment\_id=1&resource\_id=519

## Get the average sensor value for a given experiment and resource

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/get\_average?experiment\_id=1&resource\_id=519

## Get the availability status of a resource. Allows to verify if a resource is either available or not

curl -v -X GET   
iotlabmongo.iotlab.eu/measurements/is\_resource\_availabile?resource\_id=43

Make sure the **mongod** instance on the server is running. Even if  
**sudo service mongod start** command has been executed, this doesn’t  
necessarily mean that the db is working.