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***CONFIGURING THE SENSORS***

* The ***Application Developer*** ***(user)*** needs to first register the sensor  
   to the system.
* Once the sensor is registered all its information like
* **ID** – Each sensor will have a unique ID associated with it.
* **Type** – This will indicate the type of sensor like temperature,  
   motion etc.
* **Location** - This will indicate the position of the sensor.
* **Gateway Assigned** - Each sensor will have a gateway  
   assigned to itself.
* Necessary JAR files need to be included for each of the type   
   handler
* Above information about the sensor will be stored in the  
   repository documents. All the information about the sensor will  
   be stored in JSON format in the database since ***MongoDB*** is used.

***Example JSON format***

{

“ID” : “Alphanumeric”,

“Type” : “String”,

“Location” {

“Longitude” : “In Radians”

“Latitude” : “In Radians”

},

… … … …

“Gateway Assigned” : “String”

}

***CONFIGURING THE GATEWAY***

* When the ***Gateway*** boots up for the first time it obtains information about the sensors which are registered with the system from the repository documents.
* Once the gateway boots up successfully it is now ready to receive data from the sensors.
* Each type of sensor will have its associated ***Type Handler*** with the gateway.
* If the developer intends to register a new type of sensor with the system then appropriate ***JAR files*** need to be included for the type handler to recognize the newly registered sensor. This would be required to convert the data to the required format.
* To check whether the gateway has started successfully ***Health Ping*** messages can be used.