Udpated Class Digram

Registry

-location_list: Location_List
-sensor_list:sensor_list
-map:Map
-temperature_list:Temperature_list
-read:Read

+ main(args: String[]): void

+ DeploySensorOk(sensor: Sesnor, location: Location, temp: Temperature, map: Map, read: Read): void

+ ReadTemperature(location: Location, map: Map, read: Read): Temperature

+ Success(): String

+ SensorAlreadyDeployed(sensor: Sensor): String

+ LocationCovered(location: Location): Message

Message

- response: String

- covered: Boolean

+ success(): String

+ sensor(): String

+ location(): String

Sensor_list

- sensors: ArrayList<Sensor>

+ Sensor(deployed, sensorID): void

+ add(Sensor): void

+ getList(): ArrayList<Sensor>

Location_list

+ locations: ArrayList<Location>

+ addLocation(name: String): void

+ getList(): ArrayList<Location>

Location

- name: String

+ toString(): String

Sensor

- deployed: Boolean
- sensorID: String

+ toString(): String

Temperature

- temperature: Double

+ toString(): String

Temperature_list

+ temperatures: ArrayLIst<Temperature>

+ add(Temperature): void

+getList(): ArrayList<Temperature>

Map

+ Map: ArrayList<Map_item>

+ CreateMap_item(sensor: Sensor, location: Location): void

+getMap(): ArrayList<Map_item>

Map_item

- location: Location
- sensor: Sensor

+ Map_item(sensor: Sensor, location: Location): void

Read_item

- sensor: Sensor
- temp: Temperature

+ Read_item(sensor: Sensor, temp: Temperature): void

Read

+ Read: ArrayList<Read_item>

+ CreateRead_item(sensor: Sensor, temp: Temperature): void

+ getRead(): ArrayList<Read_item>