🔒 ppyordanov / **Dynamic-Noise-and-Pollution-Map** PRIVATE

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Models toString() Implementation #34

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🕐 Closed   **ppyordanov** opened this issue on Nov 3, 2014 · 2 comments

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ppyordanov commented on Nov 3, 2014

Models currently have stubs for *toString()*, but the method has not been implemented. It will be used for model manipulation feedback in the console during runtime by using a console logger.

At the moment logging is served by **SLF4J**, a Java logging facade: http://www.slf4j.org/ .

🏷 PY **ppyordanov** added the enhancement label on Nov 3, 2014

👤 PY **ppyordanov** self-assigned this on Nov 3, 2014

⑂ PY **ppyordanov** added this to the **Mobile Web Application** milestone on Nov 3, 2014

🔖 PY **ppyordanov** referenced this issue from a commit on Dec 10, 2014

◦─ PY [PROTOTYPE-STABLE] a stable version of the prototype server deploymen… …   💬 024b5df

🔖 PY **ppyordanov** referenced this issue from a commit on Dec 10, 2014

◦─ PY [METHOD_IMPL] Device class toString   💬 f389e7e

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ppyordanov commented on Dec 10, 2014

toString() methods have been implemented for all of the model classes in use (DataReading, Route, Device) using a StringBulder to improve execution speed. It displays object class as well as all of the attribute values for convenient referencing. The method is extensively used on the server for process logging and paired with *SLF4J* has been significantly helpful for identifying bugs and code sections that need refactoring:

Labels ⚙
enhancement

Milestone ⚙
Mobile Web Applic...

Assignee ⚙
PY ppyordanov

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UGmap

```
longitude: -4.2783412
noise: 58.14
co: 138.93
no2: 51.07
battery: 100.0

2014-12-09 21:00:35 INFO  HomeController:104 - Route saved: com.springapp.mvc.models.Route Object {
id: 5487a943e4b045abc7182ac1
deviceId: null

2014-12-09 21:00:35 INFO  HomeController:105 - ds3
2014-12-09 21:00:35 INFO  HomeController:116 - Data reading saved: com.springapp.mvc.models.DataReading Object {
id: 5487a943e4b045abc7182ac2
routeId: 5487a943e4b045abc7182ac1
deviceId: null
timestamp: null
latitude: 55.889519
longitude: -4.2783412
noise: 58.43
co: 132.52
no2: 51.15
battery: 100.0

2014-12-09 21:00:35 INFO  HomeController:116 - Data reading saved: com.springapp.mvc.models.DataReading Object {
id: 5487a943e4b045abc7182ac3
routeId: 5487a943e4b045abc7182ac1
deviceId: null
timestamp: null
latitude: 55.889519
longitude: -4.2783412
noise: 58.79
co: 139.22
no2: 51.15
battery: 100.0

2014-12-09 21:00:35 INFO  HomeController:116 - Data reading saved: com.springapp.mvc.models.DataReading Object {
id: 5487a943e4b045abc7182ac4
routeId: 5487a943e4b045abc7182ac1
deviceId: null
timestamp: null
latitude: 55.889519
longitude: -4.2783412
noise: 59.2
co: 137.5
no2: 51.08
battery: 100.0
```

Below is the skeleton function structure (following the facade pattern):

```java
@Override
public String toString() {

    StringBuilder string = new StringBuilder();
    String newLine = System.getProperty("line.separator");

    string.append(this.getClass().getName() + " Object {" + newLine);
    string.append("id: " + id + newLine);
    //model attributes
    ..

    return string.toString();

}
```

ppyordanov commented on Jan 21

This task has been completed and can be closed now.

ppyordanov closed this on Jan 21

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