


Home Devices Control System II

Problem Statement:

 Classroom

Spring Boot Actuator and Dev Tools
Home Device Control System II

Problem Submissions Solutions Doubts

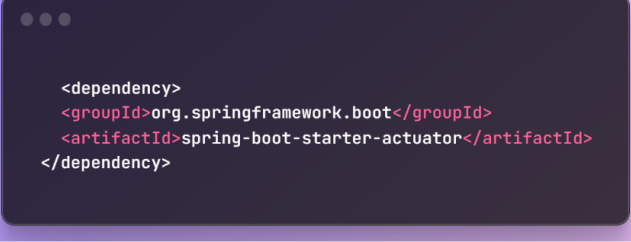
Problem statement [Send feedback](#)

Now that you have successfully created the Smart Home Control System using Spring Boot with the implementation of dev tools, it's time to enhance the system by integrating Spring Boot Actuators. Actuators will provide valuable insights into the application's health, metrics, and custom endpoints for monitoring. You are tasked with creating a custom actuator endpoint for monitoring the status of devices.

▼ **Tasks:-**

1. Update the pom.xml file to include the Spring Boot Actuator dependency.

▼ **Reference image**



```
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
```

2. Test the application by hitting the API: GET localhost:8080/actuator.
Explore the various actuator endpoints.
3. Complete the **Actuator** class by doing the following:
 - a. Add the required annotations for the Actuator class and use "statusInfo" as the endpoint id.
 - b. Autowire the DeviceRepository object.
 - c. Complete the method body for getDeviceStatus() as mentioned in the template.
4. Test the custom actuator endpoint using Postman or any web browser.

Output:

    localhost:8080/actuator

```
{
  "_links": {
    "self": {
      "href": "http://localhost:8080/actuator",
      "templated": false
    },
    "beans": {
      "href": "http://localhost:8080/actuator/beans",
      "templated": false
    },
    "caches-cache": {
      "href": "http://localhost:8080/actuator/caches/{cache}",
      "templated": true
    },
    "caches": {
      "href": "http://localhost:8080/actuator/caches",
      "templated": false
    },
    "health": {
```

```

{
  "_links": {
    "self": {
      "href": "http://localhost:8080/actuator",
      "templated": false
    },
    "statusInfo": {
      "href": "http://localhost:8080/actuator/statusInfo",
      "templated": false
    },
    "beans": {
      "href": "http://localhost:8080/actuator/beans",
      "templated": false
    },
    "caches-cache": {
      "href": "http://localhost:8080/actuator/caches/{cache}",
      "templated": true
    },
    "caches": {
      "href": "http://localhost:8080/actuator/caches",
      "templated": false
    },
    "health": {
      "href": "http://localhost:8080/actuator/health",
      "templated": false
    },
    "health-path": {
      "href": "http://localhost:8080/actuator/health/{*path}",
      "templated": true
    }
  }
}

```

GET
http://localhost:8080/actuator/statusInfo
Send

Params
Authorization
Headers (7)
Body
Pre-request Script
Tests
Settings
Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
--	-----	-------	-------------	-----	-----------

Body
Cookies
Headers (5)
Test Results

200 OK
418 ms
348 B
Save as Example

Pretty
Raw
Preview
Visualize
JSON

```

1  {
2    "Bedroom Thermostat": "On",
3    "Croma tv": "Off",
4    "Main Door Lock": "On",
5    "Front Door Camera": "On",
6    "Living Room Speakers": "Off",
7    "Bedroom Lights": "Off",
8    "Name": "Off"
9  }

```