# 2 Requirements

As the project started the core requirements had to be determined. In this phase of development all the core features were determined and added to the functional requirement table.

**2.1 Functional Requirements**

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| NAME | TEXT |
| USER REGISTER | As a user I want to be able to register so I could log in |
| USER LOGIN | As a user I want to log in the system. |
| SOUND SENSOR | [As a user, I want to see the information gathered by the sound sensor so that I can monitor the sound level in my living environment and improve the quality of my study and sleep.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-27) |
| MOVEMENT SENSOR | As a user, [I want to see the information gathered by the movement sensor so that I can monitor the movement history in my living environment.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-31) |
| HUMIDITY/TEMPERATURE SENSOR | As a user, [I want to see the information gathered by the humidity/temperature sensor so that I can monitor the humidity/temperature level in my living environment.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-29) |
| CO2 SENSOR | As a user, [I want to see the information gathered by the CO2 sensor so that I can monitor the CO2 level in my living environment.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-25) |
| LIGHT SENSOR | As a user, [I want to see the information gathered by the light sensor so that I can monitor the light level in my living environment.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-33) |
| MOVEMENT NOTIFICATIONS | As a user, [I want to be notified via the android app when there is any movement detected by the movement sensor so that I can make sure there are not any intruders in my home while I am away.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-32) |
| CO2 NOTIFICATIONS | As a user, [I want to be notified via the android app when the CO2 level becomes too high according to the recommendations of experts in the field so that I can maintain a healthy living environment.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-26) |
| SOUND NOTIFICATIONS | As a user, [[I want to be notified via the android app when the sound level becomes too high.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-27" \o "As a user, I want to see the information gathered by the sound sensor so that I can monitor the sound level in my living environment and improve the quality of my study and sleep.)](https://11michi11.myjetbrains.com/youtrack/issue/HMS-28) |
| HUMIDITY NOTIFICATIONS | As a user, I want to be notified via the android app when the humidity level becomes too high or too low according to the recommendations of experts in the field so that I can maintain a healthy living environment. |
| OVERALL QUALITY | As a user, [I want to get a daily grade (1 to 10) that shows the overall quality of the environment I live in based on data collected from sensors.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-93) |
| SENSORS CONTROL | As a user, [I want to turn on/off sensors via the mobile android app.](https://11michi11.myjetbrains.com/youtrack/issue/HMS-38) |
| DEVICE MANAGEMENT | As a user, I want to be able to manage my devices. |
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