

Pollution Detection System User Manual

PLA25

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1 introduction

1.1 Who are we?

We are a group of students who go by the name of PLA25. We visit the HvA, in Amsterdam.

1.2 Our product

The Pollution Detection System is a web-based application that provides information about the pollution on earth. Both light pollution and air pollution are being monitored using this system.

The system uses so called "sensorhubs". Sensorhubs are a combination of multiple sensors inside of a box. These sensorhubs can be placed in a specific area to measure the pollution. These measurements can be monitored using the PDS website. This can be done by using the website's main feature, the map. The system uses sensors that can be placed in a specific area to measure the pollution. These measurements can be monitored using the PDS website. This can be done by using the website's main feature, the map.

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2 The website and how it works

2.1 Login and the home page

This section will tell you about the basics: login, logout and the homepage. Here the instruction for logging in can be found. We'll start with the login.

2.1.1 Login and Logout

The login page is simple, use your username and password to login to the website.

1. Use the upper input field for your username.
2. Use the lower one for your password.
3. Finally, click the "login" button.

This will redirect you to the home page.

On the top of this website there is a navigation bar, which is used to visit the several available pages. These pages include: the home page the map page and (if you are an admin) the admin page.

If you want to log out, simply click the logout button at the very end of the navigation bar.

Both the login page and home page contain buttons to switch between the languages Dutch and English.

2.1.2 The homepage

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2.2 The map page

This page is used for viewing the gathered data. The data is displayed on the map. This map is the website's main feature. It can be used when you want to view the data from the sensorhubs.

This page features a map which can show you all kinds of data regarding pollution. On the left side there is a sidebar. This sidebar contains many options that can be used, for example: filters with which you can enable the heatmap, light pollution map and more.

There is also a search bar. With the search bar certain places like cities and towns can be found. Also, it can find a specific location by entering coordinates into the search bar.

2.2.1 The heatmap

If you want to see the temperature measured by the sensorhubs, this is the right option. The heatmap shows a representation of the temperature, using colors scaling from bright pink (cold) to red (warm). The colours are displayed on the map as a layer over the standard map.

2.3 The admin page

This page is used to make changes to the system, e.g. user management. Just like the name says, this page is only available for admins. On this page you can change a user's data or that of a sensorhub.

This page shows two tables. One table for the Users and one for the sensorhubs. With admin rights the user can change the data inside of these tables.

For example, the Users table contains data of all the users. With the add button you can add a user and with the delete button behind a specific user you can delete it. Then there is the edit button. The edit button is used to edit the profile of a specific user.

The sensorhub table simply shows the location of the used sensorhubs with pinpoints.