# **AirWatcher Console User Manual**

## **Introduction**

Welcome to the AirWatcher console interface, where air quality data is analyzed, and sensor information is managed. This manual will guide you through using AirWatcher based on your role - whether you're part of the Agency, a Provider, or a Private Individual.

# **Getting Started :**

# **Installation and Compilation**

# Before launching the AirWatcher application, ensure you have compiled the source code using the provided Makefile. Follow these steps:

* **1. Open the Terminal**. Navigate to your terminal or command prompt application on your system.
* **2. Navigate to the Application Directory**. Use the cd command to change the directory to the location where the AirWatcher source code is stored. For example:

cd path/to/AirWatcher

**3. Compile the Application**. Run the make command to compile the application:

make

* This command will use the Makefile to compile the source code into an executable.
* **4. Run the Application**. Once the compilation is successful, start the AirWatcher application by running:
* ./AirWatcher

### **Role Declaration**

Upon starting AirWatcher, you will first declare your user status. Please enter your role when prompted:

**Enter your role (Agency/Provider/Private Individual): [YourRole]**

### **Authentication**

After declaring your role, you will be prompted to authenticate:

**Username: [YourUsername]**

**Password: [YourPassword]**

## **Role-Based Main Menu**

Once authenticated, you will access a main menu tailored to your role with functionalities specific to your privileges and responsibilities.

### **Agency Menu**

* **Analyze Sensor Data**
* **View Air Quality Statistics**
* **Observe Cleaner Impact**
* **Manage User Points and Classifications**
* **System Settings**
* **Log Out**

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### **Provider Menu**

* **View Cleaner Performance**
* **Update Cleaner Information**
* **View Air Quality Reports**
* **Log Out**

### **Private Individual Menu**

* **View Personal Sensor Data**
* **Check Points and Rewards Status**
* **Log Out**

Select the number corresponding to the action you want to take and press Enter.

## **Navigating the Interface**

### **Returning to the Previous Menu**

To return to the previous menu at any time, type:

back

### **Clearing the Screen**

To clear the console screen of all previous commands and outputs, type:

clear

### **Viewing Help**

For a list of available commands or help with a specific command, type:

help

## **Using Your Role-Specific Functions**

After selecting an option from the main menu, simply follow the on-screen prompts to execute the desired function.

## **Exiting the Application**

To exit AirWatcher safely, select the 'Log Out' option from your main menu.

## **Support and Assistance**

For additional help or to report issues, contact the AirWatcher support team at support@airwatcher.gov.