

Climate Monitoring

User Manual

Climate monitoring is an application designed to provide information to citizens regarding their area of interest about the weather conditions.

Operators have the task to update data by submitting information through parameters in the centers they are employed into.

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Installation guide

When you have downloaded the .jar, double click on it and the application will start.

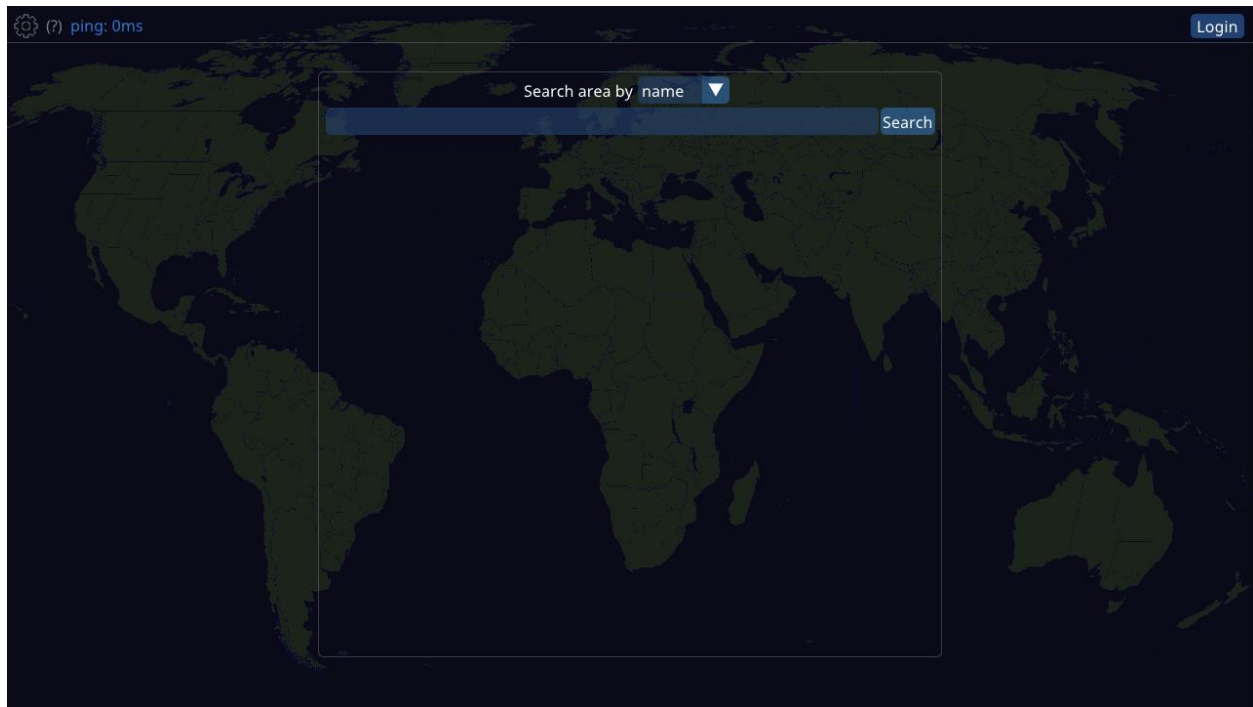
System requirements

	Minimum	Recommended
OS (Windows)	32-bit Windows 10	64-bit Windows 10 or higher
OS (Linux)	64-bit Linux distribution	64-bit Ubuntu 23.04 or higher, Arch Linux 2024.08.01 (X11)
OS (macOS)	64-bit macOS Monterey 12.01	64-bit macOS Monterey 12.01 or higher
OS (macOS arm64)	64-bit macOS Sonoma 14.6 (M1 CPU)	64-bit macOS Sonoma 14.6 (M1 CPU) or higher
Processor	Intel i5-7200U, AMD A8-6500	Intel i7-8750H, AMD Ryzen 5 3600
Memory	500 MB RAM	1.5 GB RAM
Graphics	Any integrated GPU that supports OpenGL	Discrete GPU that supports OpenGL
OpenGL	Version 3.0	Version 3.0 or higher
Storage	15 MB available space	30 MB available space or higher
Screen resolution	800 x 600	1920 x 1080 or higher

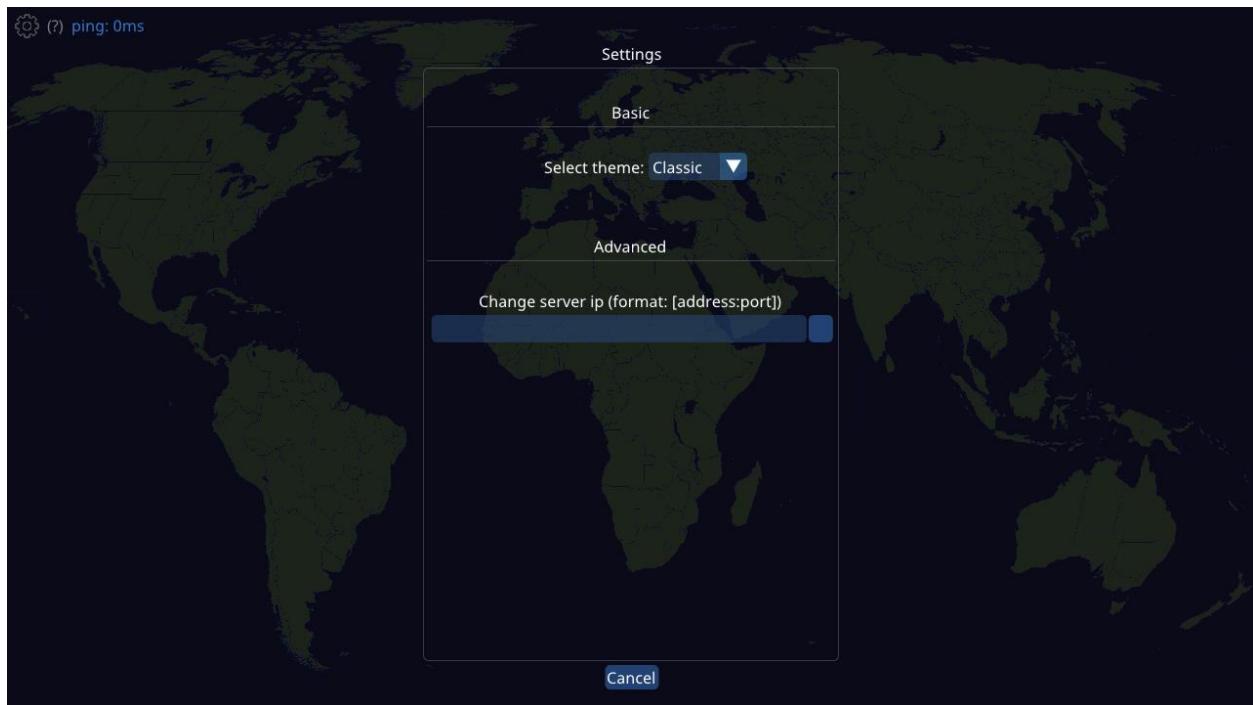
Note: the specs listed above come from systems that have been used to run the application, if you don't see your system in the specs, it means that it may or may not work

Usage guide

The user will be able to view the city by choosing from the dropdown menu the search by name, country or coordinates



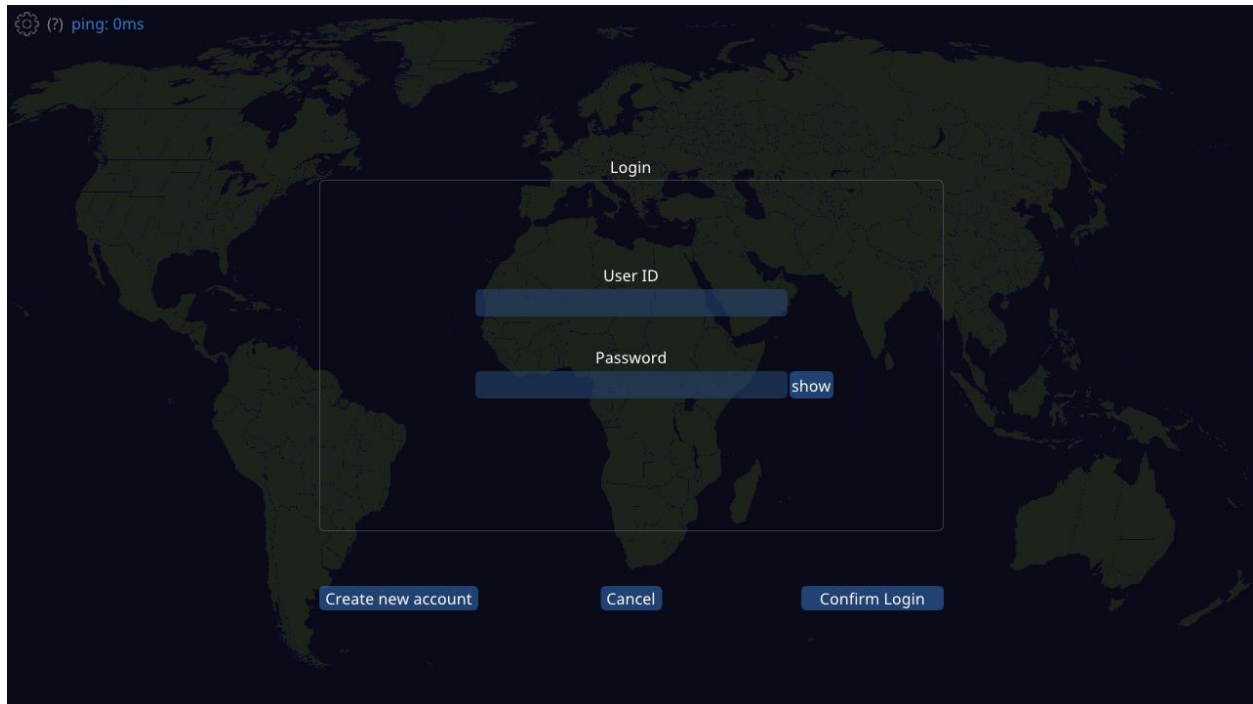
By clicking on the button on the top-left corner of the application it is possible to change the graphical style or connecting to a different server



The user, with the search bar, will be able to search for their interest area and view the respective data



The operator must authenticate by logging in (by clicking on the button in the top-right corner), inputting their credentials to log in or, in case they don't have an account, proceed with the registration, by clicking the "Create new account" button



The account creation requires the user to input:

- User ID
- Email
- Password
- SSID
- Surname
- Name
- Center

(?) ping: 0ms

Create new account

User ID (cannot be changed in the future)

E-mail

Password show

SSID

Surname

Name

Center

Search center

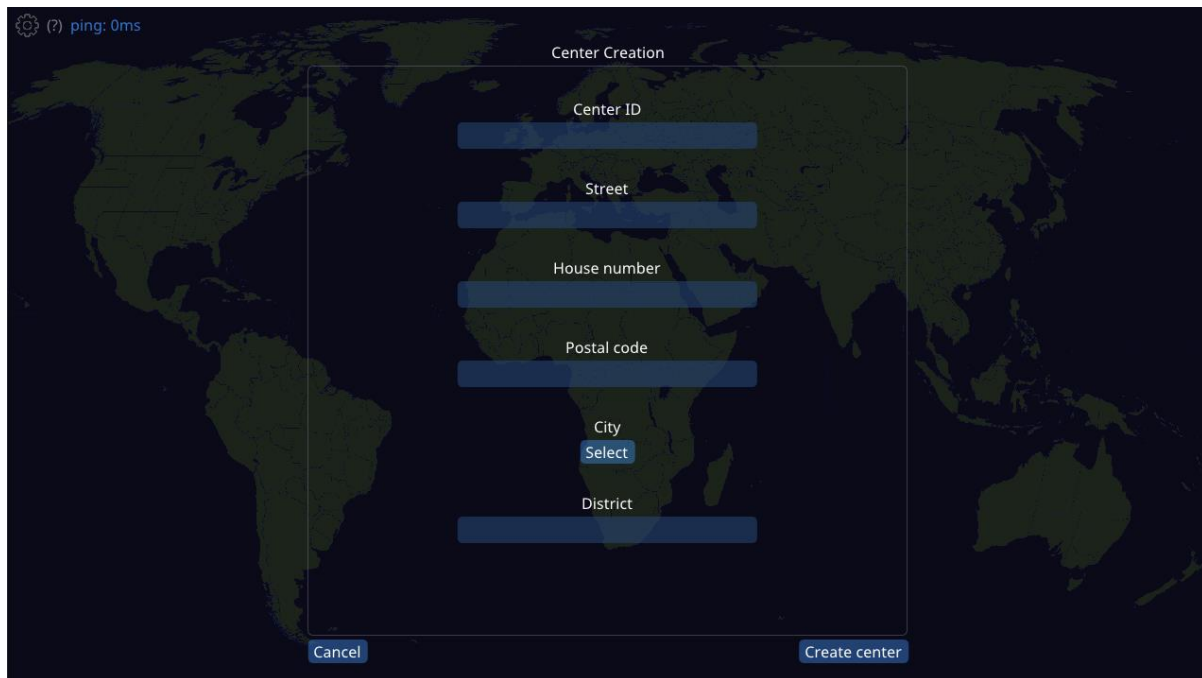
or

Create a new center

Cancel Create new account

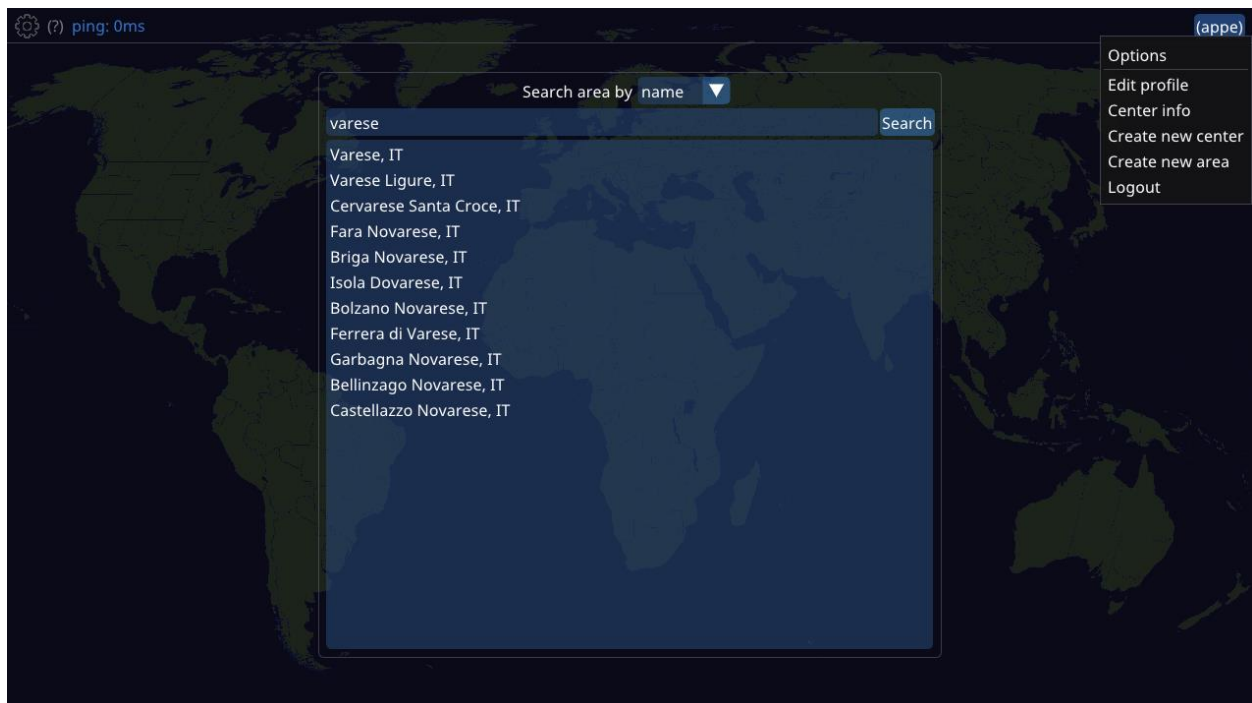
In case the selected monitoring center is not yet created, it will be possible to create a new one by clicking the “Create new center” and inputting:

- Center ID (name)
- Street
- House number
- Postal code
- City
- District (optional)



The image shows a 'Center Creation' form overlaid on a dark-themed world map. The form contains several input fields: 'Center ID', 'Street', 'House number', 'Postal code', 'City' (with a 'Select' button), and 'District'. At the bottom of the form are two buttons: 'Cancel' and 'Create center'. In the top-left corner of the map interface, there is a settings icon, a question mark, and the text 'ping: 0ms'.

If the operator has logged in successfully or has created a new account, they will be redirected to the main menu, with their name visible in the top-right corner of the screen, replacing the “Login” button.



The image shows the main menu interface. At the top-left, there is a settings icon, a question mark, and 'ping: 0ms'. At the top-right, the user's name '(appe)' is displayed. A search bar is centered at the top with the text 'Search area by name' and a dropdown arrow. Below the search bar, a dropdown menu is open, showing a list of locations: 'varese', 'Varese, IT', 'Varese Ligure, IT', 'Cervarese Santa Croce, IT', 'Fara Novarese, IT', 'Briga Novarese, IT', 'Isola Dovarese, IT', 'Bolzano Novarese, IT', 'Ferrera di Varese, IT', 'Garbagna Novarese, IT', 'Bellinzago Novarese, IT', and 'Castellazzo Novarese, IT'. A 'Search' button is located to the right of the search bar. On the right side of the screen, there is a vertical menu with the following options: 'Options', 'Edit profile', 'Center info', 'Create new center', 'Create new area', and 'Logout'.

By clicking on it, a dropdown menu will appear, that allows the operator to edit their information, change their monitoring center, create a new center or a new area or disconnect and go back to user mode.

When logged in, to register a parameter inside an area, the operator must ensure that the area is being monitored by their center, if not there will be given an option to add the area to the center.

The screenshot shows a dark-themed interface with a world map in the background. A modal dialog box is open, titled 'centro di monitoraggio di legnano'. It contains the following elements:

- Top left: A gear icon, a question mark icon, and the text 'ping: 0ms'.
- Header: 'centro di monitoraggio di legnano'.
- Location field: 'Location: Legnano, via cristoforo colombo, 8, Contrada Flora'.
- Monitored areas list: 'Monitored areas:' followed by a list:
 - Legnano, IT
 - Cerro Maggiore, IT
- Search section: 'Search for the new area' with a dropdown menu set to 'Search area by name'. Below this is a search input field containing 'varese' and a 'Search' button.
- Search results list: A list of locations starting with 'Varese, IT':
 - Varese, IT
 - Varese Ligure, IT
 - Cervarese Santa Croce, IT
 - Fara Novarese, IT
 - Briga Novarese, IT
 - Isola Dovarese, IT
 - Bolzano Novarese, IT
- Buttons: 'Cancel' at the bottom left and 'Add new area' at the bottom right.

To add a new parameter, there is a “+” button that allows the operator to submit new data to the center

The screenshot shows the same dark-themed interface with a world map. A modal dialog box is open, titled 'Legnano, IT'. It contains the following elements:

- Top left: A gear icon, a question mark icon, and the text 'ping: 0ms'.
- Header: 'Legnano, IT'.
- Geoname ID: 'Geoname ID: 3174921'.
- Country: 'Country: Italy (IT)'.
- Coordinates: 'Coordinates: (45.59788, 8.91506)'.
- Select center: A dropdown menu showing 'centro di monitoraggio di legnano' with a 'view' button next to it.
- Select category: A dropdown menu showing 'Wind' with a description '(Wind speed (km/h), divided into bands)'.
- Status: 'No available data' in red text.
- Action: 'Record a new parameter' with a blue '+' button.
- Buttons: 'Cancel' at the bottom center.

Then it will be possible to select a score (1-5) with a slider and / or add written notes (max 256 characters).

At the end of this procedure, by pressing the “Record” button, the data will be registered and will be visible inside the table.

ping: 0ms

Legnano, IT

Center: centro di monitoraggio di legnano

Category: Wind (Wind speed (km/h), divided into bands)

Slide to set the score:

4

(10/256)

Very windy

Cancel

Record

The operator will be able to record new data only if they are employed in the center associated with the area of interest, otherwise the section will be read-only, like a normal user.

ping: 0ms

Legnano, IT

Geoname ID: 3174921

Country: Italy (IT)

Coordinates: (45.59788, 8.91506)

Select center: centro di monitoraggio di legnano view

Select category: Wind (Wind speed (km/h), divided into bands)

Recordings count: 1

Score average: 4.0

Recordings

Date	Time	Operator	Score	Notes
9 Sep 2024	20:46:17	appe	4	Very windy

Cancel

Troubleshooting

In case of issues at startup, assure that:

- The system requirements are being fulfilled
- The machine is connected to the Internet
- There are no external programs interfering with the application (firewall, antivirus etc.)
- Java is installed on the machine and the version is recent enough to support the application
- The application is not being executed inside a compressed folder

If there are any bugs or other issues, contact us at climatemonitoringappservice@mail.com