

Traxbean Electronic Monitoring Inspection App

V1.0

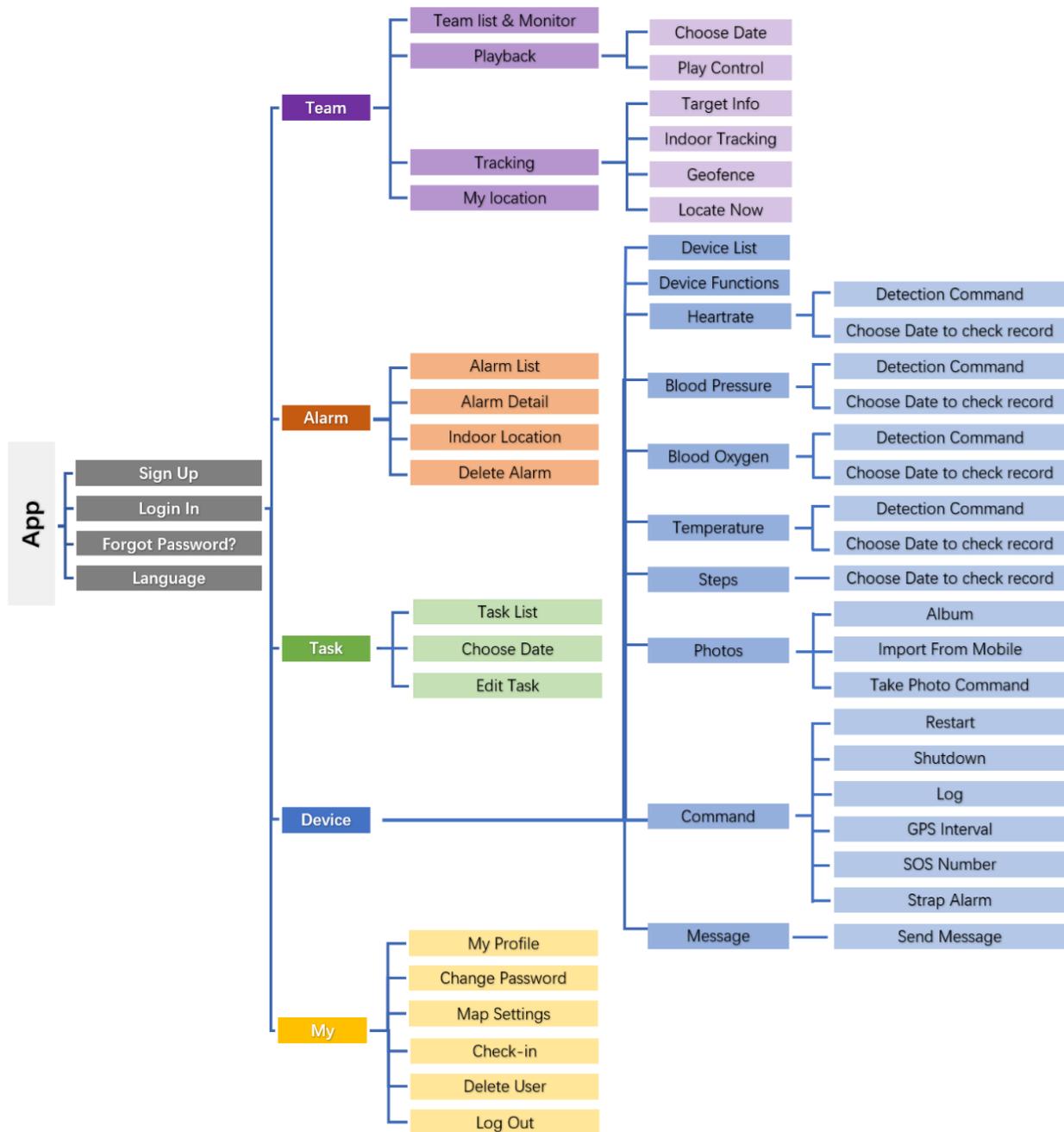
User manual

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The Traxbean Electronic Monitoring Inspection App V1.0 is a mobile application designed for the care and management of special populations. This software is suitable for special groups including the elderly in nursing homes, patients with rare diseases, individuals with psychiatric conditions, those on medical parole, etc. The focus of care and management for these special populations is to monitor their location, vital signs, and alarm data.

1. Functional Map



This software connects to servers that provide remote positioning and monitoring services and retrieves various data uploaded by devices to enable management personnel to view the real-time location, status, and health data of special populations through the mobile app. It can receive abnormal alarms from special populations, such as electronic fence entry/exit alarms, positioning watch/locator removal alarms, health sign abnormality alarms, low battery alarms, offline alarms, etc., and can also receive tasks and messages issued by the regulatory backend through the app.

The following will use the scenario of a nursing home, where caregivers and nursing home management personnel manage the intelligent positioning of the elderly as an example to illustrate the use of this software.

The software has five main functional modules: Team, Alarm, Device, Tasks, and My.

Each caregiver has an app account, and after logging in, they can manage the safety of one or several elderly people under their management.

The Team function allows you to view the positions of all elderly people under a caregiver's management on the same map, check the caregiver's own location, and also view the historical trajectory of each person within a certain period.

Under Alarm, you can see the alarm list generated by all elderly people under the caregiver's management, view each alarm data, including position, alarm type, alarm time, etc.

In the Device function, you can view the device status of all elderly people under the caregiver's jurisdiction, send commands to the device, perform device configuration, and even control the device to take photos remotely. Through interaction with the device, caregivers can communicate with the elderly's watches, for example, sending severe weather warnings, system notifications, business notifications, care messages, etc.

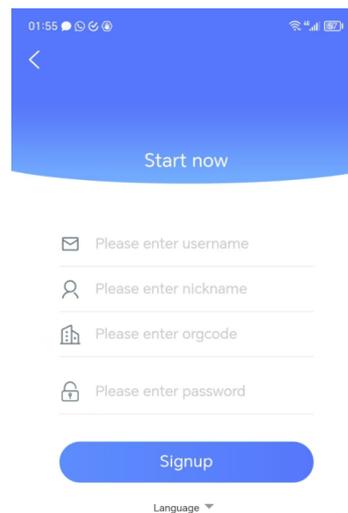
Under Tasks, caregivers can view tasks assigned to them by the nursing home and can click on tasks to feedback completion status.

In the My function, caregivers can set their personal avatar, edit their profile, set a password, update the software, punch in, change maps or languages, etc. Caregivers can punch in after arriving at the elderly's location,

record a video of themselves, the elderly, and the environment for punch-in, and the system will automatically mark the elderly's location, status, and punch-in time.

2. Sign up and Login

2.1 Sign up



When a caregiver/nursing home management personnel begins to use this software, they can Signup an account on the app. The username, nickname, and password are set by the caregiver themselves. If the entered password contains illegal characters, this software will pop up a prompt saying "The password is limited to uppercase and lowercase English letters and numbers only. Please do not enter other characters. The password length should be 6 to 10 characters." Please provide a password that complies with the rules according to the prompt.

The organization code is the code of the caregiver's organization in the backend system, for example, if the caregiver belongs to Department A of a certain nursing home, then the caregiver's management personnel need to find out the organization code of Department A of the nursing home in the backend system and provide it to the caregiver.

Dept Settings [Theme](#) [Settings](#)

Department	Demo	Org code	dmZn	Logo	
Domain		Title	Ⓜ	Smtп Server	
Smtп User		Smtп Pass		Smtп Port	0
SMTP Verified	Ⓜ	Date Format	YYYY-MM-DD HH:mm:ss	Language	fr_FR
Length Unit	km/m	Weight Unit	kg	Temperature	°C
Smtп Server	<input type="button" value="Send Code"/> <input type="button" value="Verify Code"/>				
Map	https://maps.googleapis.com/maps/vt?x={x}&y={y}&z={z}&key=AlzaSyDATkcdkSaZbOMshkli2MQOisZO3HGLQg&language=en				

Find Org code from Department settings in Backend System

In this way, after the caregiver Signup with this organization code, the "caregiver" role under Department A in the backend system will appear, and the management personnel can assign elderly people to the caregiver in the backend, and can also issue tasks to the caregiver and view check-in data, etc.

[App User List](#) × ▼

APP Users[dmZn] ⓘ ⓘ ⚙️ 🗑️

Avatar	Username	Department	Role	Nickname	Email	status	Menu
	demo@thinkrace.com	Demo	App User	demouser	demo@thinkrace.com	enable	<input type="button" value="Edit"/> PW Delete
	49989282@qq.com	Demo	App User	chenhf	49989282@qq.com	enable	Edit PW Delete

total of 2 < 1 > 10 / page ▼

Assign Person ✕ ✕

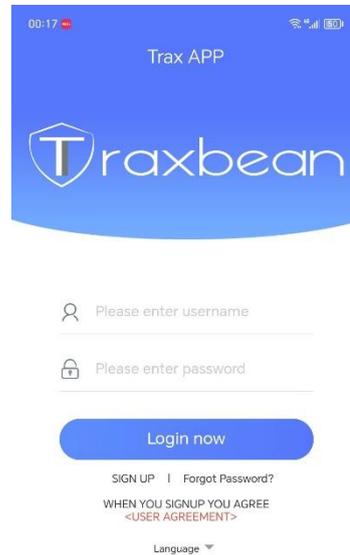
* Persons: MT4 65135 MT4 65127 kim yang kim yang 0445佩戴者 MT2 0874佩戴者 MT2
 Senior Demo A Senior 38173 Senior -11733 Violator Demo B -11584 ying annsed
 Marry Lee PT880 -1714 Prisoner11832 Demo Victim -38173

Assign Targets to a App user in Backend System

After Signup is completed, this software will pop up a "Signup Successful" prompt. If registration is not successful, check whether the

username is duplicated, whether the organization code is correct, and contact the management personnel for resolution.

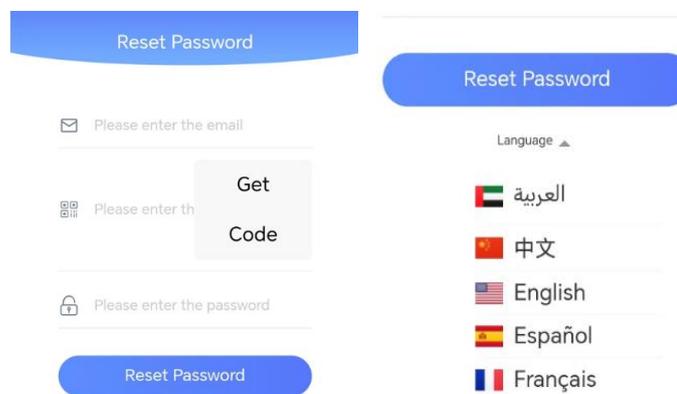
2.2 Login



Please enter your username and preset password on the login page to log in. If the login information is incorrect, this software will pop up a "Login information is incorrect, please check" prompt.

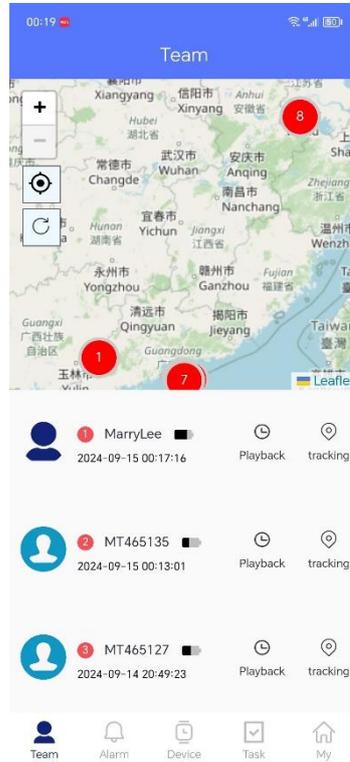
If you forget your password, you can click on "Reset Password" to try to reset the password with a text message or email verification code. If you forget your username, please contact your management personnel to reset the username from the backend.

Different languages can be selected on this page.



3. Home Page Functions

3.1 Monitoring Home Page



The monitoring home page allows caregivers to see the most recent location and real-time status of all elderly people under their jurisdiction.

The elderly people are registered and band with wearable device's IMEI as a target in the Backend System.

Target Info ✕ ✕

* IMEI: <input type="text" value="3559326000"/>	* First Name: <input type="text" value="Ajr"/>	* Last Name: <input type="text" value="Kak"/>
Country: <input type="text"/>	Province: <input type="text"/>	City: <input type="text"/>
Address: <input type="text" value="orth place"/>	Zip: <input type="text" value="Please enter Zip"/>	Passport: <input type="text" value="Please enter Passport"/>
Phone: <input type="text" value="0- /89"/>	Email: <input type="text" value="ajr. com."/>	* Birthday: <input type="text" value="19 -11"/>
Height: <input type="text" value="m 0"/>	Weight: <input type="text" value="kg 0"/>	Features: <input type="text" value="Please enter Features"/>
Gender: <input type="text" value="Male"/>	Avatar: <input type="text" value="Select File"/>	Risk level: <input type="range" value="Low Medium High"/>
* Start Time: <input type="text" value="2024-05-10"/>	* End Time: <input type="text" value="2024-11-10"/>	First Violation: <input type="checkbox"/>
Remark: <input type="text" value="Please enter Remark"/>		

Register target and band device IMEI

The home page is divided into four parts, with the top being the title and shortcut button area, the upper half being the map area, which can display the positions of multiple targets at the same time. The lower half is the target list area, listing all the targets of the elderly people currently under the management of the App user. The bottom edge is the main function button area.

The map area marks the positions of targets on the map with multiple circular icons. The center of the icon displays the portrait of the elderly person corresponding to each target. If there is no portrait set, the icon displays a number, which is the number of the elderly person in the current page's target list. The color of the edge of the icon indicates the online and positioning status of the device. A green edge indicates the LBS positioning method; a light blue edge indicates that the last positioning of the target was by Wi-Fi positioning method; a dark blue edge indicates that the last positioning of the target was by GPS positioning method; a gray edge indicates that the device is offline.

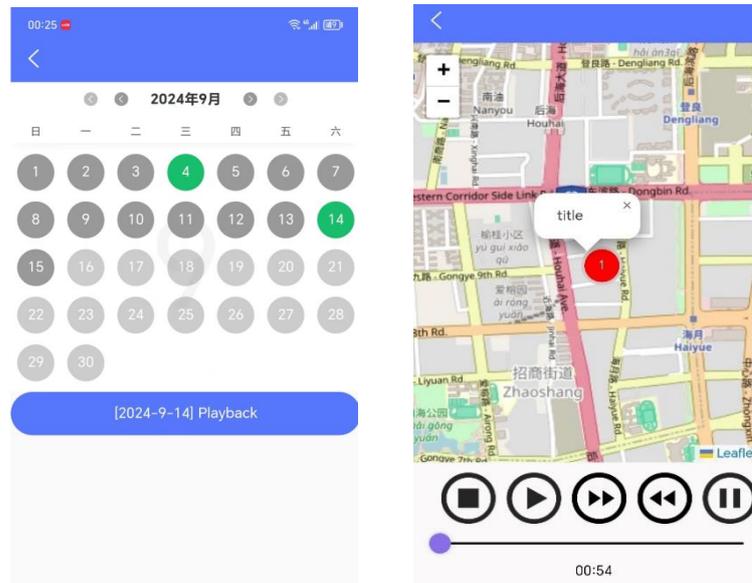
Click on the circular icon, and this software will pop up a label displaying the specific information of the device, including the device's IMEI number, model, activation time, signal update time, positioning data time, positioning method, etc.

Click on  and  to zoom in and out of the map, click on  to display the caregiver's location, and click  on to refresh the current page.

The lower half of the target list displays the summary information of all elderly people in this group from top to bottom, including number, elderly name or code, or the IMEI number of the device worn by the elderly, device battery, last positioning time/current positioning status, and function buttons. Click on the function button for more operations on individual devices. Due to screen size limitations, the current function buttons are replay and track.

The bottom menu buttons are Team, Alarm, Device, Tasks, and My, corresponding to the five major functional modules.

3.2 Playback



Select date to retrieve historical data

Play historical location data

On the monitoring home page, click the "Playback" function button on the right side of the target information to open the historical trajectory function page. Caregivers can select different target, choose different time periods for the target, select the type of positioning data to display, the speed of playing back historical records, and the form of displaying historical records. This interface is used to view the historical trajectory of a certain day in the past, and the operation is simple.

Entering the historical trajectory function, the first page displayed is the historical trajectory selection page. The App will show the calendar for the current month, and caregivers can select the date to view the historical trajectory for a specific date. Dates are distinguished by different colors, with green dates indicating that there is historical data for that day, dark gray indicating that there is no historical data for that day, and light gray indicating future dates. At the top of the calendar, there are two sets of forward and backward arrows for browsing years and months. After selecting a date, click the "Playback [Date]" button at the bottom of the calendar, and the software will display the playback interface.

The playback interface includes three parts, with the top being the return arrow button. The center of the screen is the map, which displays the target's past positions with colored dots, and the colored dots are connected by lines

to show the trajectory. The color of the colored dots indicates the positioning status at that point. Green dots indicate the LBS positioning method; light blue indicates the Wi-Fi positioning method; dark blue dots indicate the GPS positioning method. There is a zoom button in the upper left corner of the map for zooming in and out. Clicking on the colored dots will display a bubble showing the target's name.

Below the map is the playback control bar, with stop, start, accelerate, decelerate, and pause buttons. Below the playback control bar is the progress bar and clock. The entire progress bar corresponds to the 24 hours of the day, and the position of the slider represents the progress of the current playback in the 24 hours of the day. The clock displays the positioning time of the current playback location.

3.3 Real-time Positioning

On the monitoring home page, click the "Tracking" function button on the right side of the lower half of the target information to open the real-time positioning function page.



Real-time positioning function page



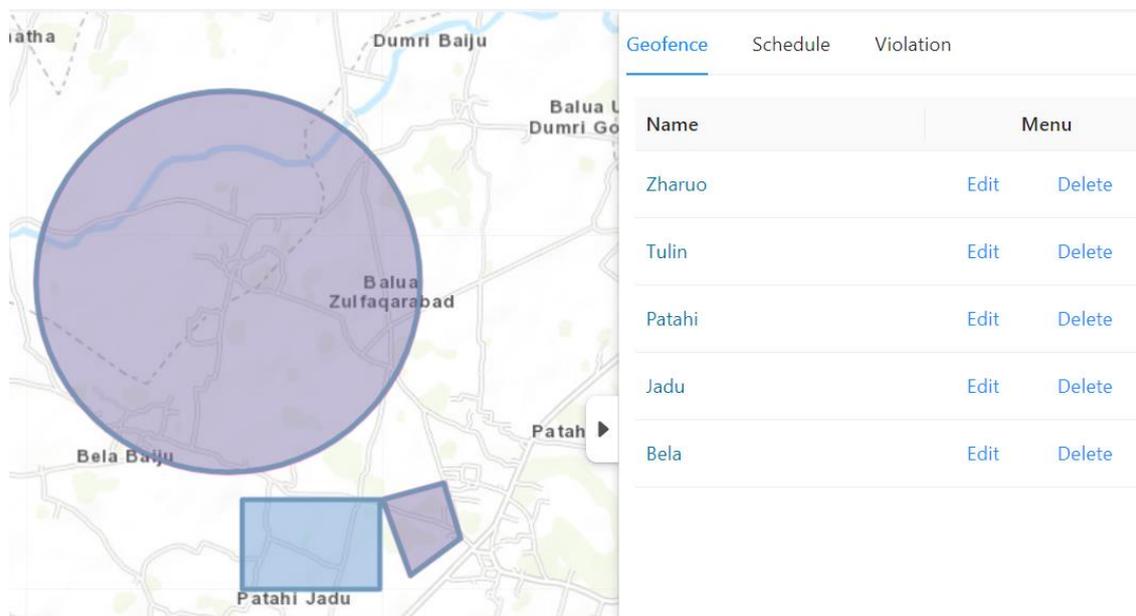
Indoor positioning page

The real-time positioning page displays the last known location of the selected target. The real-time positioning functionality page of this software consists of three sections.

The top row of the real-time positioning page features a back button, an indoor positioning button, and an electronic geofencing button. The indoor positioning button will not be displayed if the selected target has not been configured with indoor positioning beacons.

The central portion of the real-time positioning functionality page is a map that displays the target's most recently uploaded location with a colored point. There is a zoom button located at the top-left corner of the map for scaling the map. Clicking on the colored point will produce a bubble displaying the target's name.

It will show all the outdoor Geofences if you defined them on the webpage.



Configure Geofence on the webpage

The bottom section of the real-time positioning functionality page presents a summary of the elderly person's information, including the identification number, the elderly person's name or alias, or the name of the device worn by the elderly person, battery level of the device, IMEI number, last positioning time, and an "Immediate Positioning" function button.

By clicking the "Immediate Positioning" function button, the software sends an immediate positioning command to the device worn by the elderly person. The device will initiate a positioning process and upload the results to this software.

Clicking the "Indoor Positioning" button on the top row of the real-time positioning functionality page opens the indoor positioning functionality page,

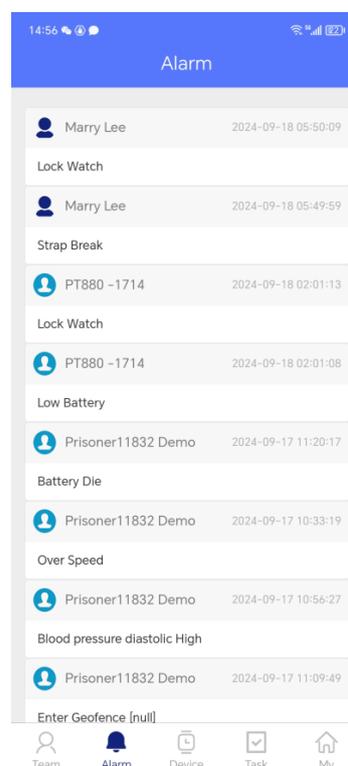
allowing you to view the target's last known location on the indoor map.

The top row of the indoor positioning functionality page features a back button.

The central portion of the indoor positioning functionality page is a map that displays the pre-set indoor map associated with the elderly person within the system, showing the target's most recently uploaded location with a colored point. There is a zoom button located at the top-left corner of the map for scaling the map. Clicking on the colored point will produce a bubble displaying the target's name.

The bottom section of the indoor positioning functionality page presents a summary of the elderly person's information, including the identification number, the elderly person's name or alias, or the name of the device worn by the elderly person, battery level of the device, IMEI number, last positioning time, and an "Immediate Positioning" function button.

4. Alarm



This software is capable of receiving and playing various alarm data, such as electronic geofencing and tamper alerts. To access the alarm functionality, tap the alarm button from the home page. The upper half of the screen displays a list of alarm information, and scrolling down reveals all

recent alarm data. The lower half of the screen features menu buttons at the bottom.

Each alarm data entry consists of two parts: the upper part displays the portrait, the elderly person's name or ID, the device number or name, and the time the alarm occurred, while the lower part shows the type of alarm. Alarm types include: offline alarms, online alarms, wristband wearing alarms, wristband removal alarms, low battery alarms, SOS alarms, geofence exit alarms, geofence entry alarms, high heart rate alarms, low heart rate alarms, high body temperature alarms, and low body temperature alarms, etc. Each type of alarm comes with parameters such as the time of occurrence, specific parameters, and the location where the alarm happened, for caregivers to review.

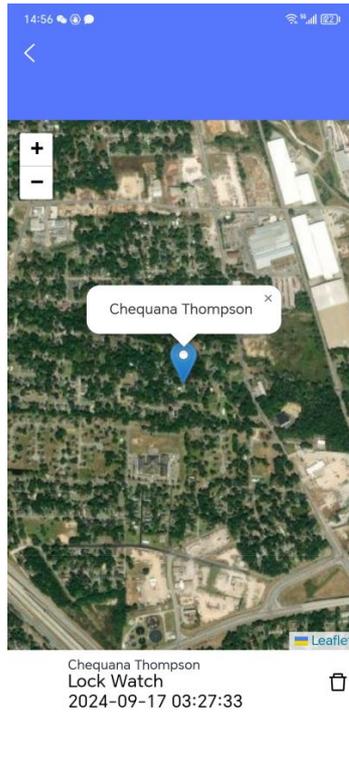
By tapping an alarm data entry, you can open and view specific information. The alarm data information page of this software includes three parts.

The top row of the alarm data information page features an indoor positioning button. If the selected device is not configured with indoor positioning beacons, the indoor positioning button will not be displayed.

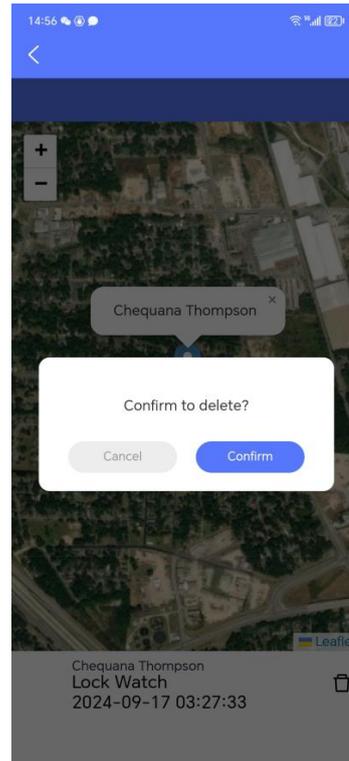
The central part of the alarm data information page is a map that displays the location uploaded with the alarm data using colored markers. There is a zoom button in the upper left corner of the map for scaling the map. Tapping on a colored marker will produce a bubble displaying the device's name.

The bottom part of the alarm data information page is a summary of the elderly person's information, including the number, the elderly person's name or code, or the name of the device worn by the elderly, the type of alarm, the time the alarm occurred, and a "Delete" button.

By tapping the "Delete" button and confirming the selection, the software will delete that particular alarm data entry.

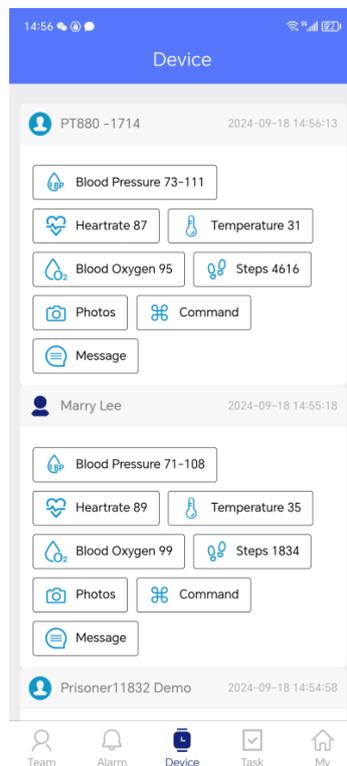


Details of alert



Delete alert data

5. Device



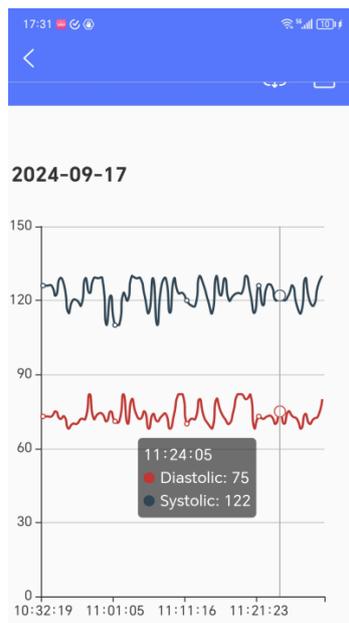
From the home page, tap the Device button to enter the device functionality interface. The device functionality interface lists the main function buttons for each device. The functions vary for each device, and thus the software displays different function buttons accordingly. Each

device displays an avatar, device name, last communication time, and main function buttons. The health data button shows the last health data reported by the device. Tapping the main function buttons leads to the specific functionality interface.

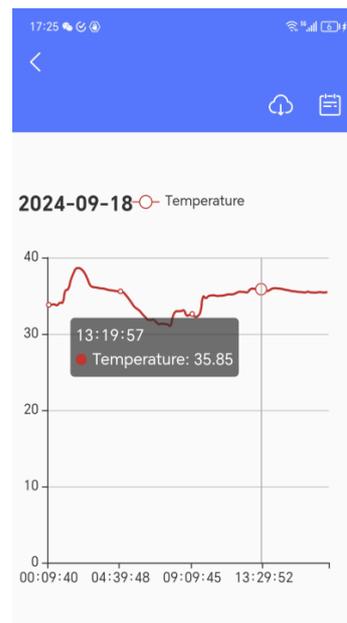
5.1 Health Monitoring

Tap the Health Monitoring button to enter the detailed functionality interface. Health monitoring features include heart rate, blood pressure, body temperature, blood oxygen, step counting, and more.

Taking heart rate and body temperature as examples, the detailed functionality interface is divided into two parts. The top row consists of command issuance and calendar buttons, while the lower part displays visual charts of the day's health data.



Show daily heartrate record

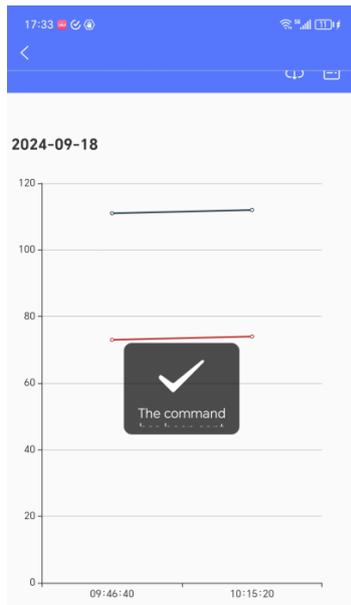


Show daily temperature record

Health data visualization charts include date, visual charts, and legends. Tapping on a point in the chart will display the specific data time and value. By tapping the command issuance button, you can send an immediate health data check command to the device. If the command is successfully issued and the device responds with a data packet, the software will display a pop-up saying "Command has been issued." If the device does not respond to the command, the software will display a pop-

up saying "Command issuance failed." If the command is successfully issued, the device will perform a health data check and send the results to the software for display.

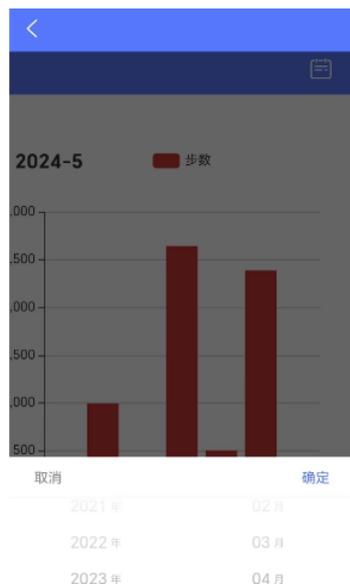
Tap the calendar button in the top row to select different dates and retrieve historical data for that day, displaying historical data on a daily basis. If there is data for the day, a chart will be drawn; if there is no data, "No data" will be displayed on the date.



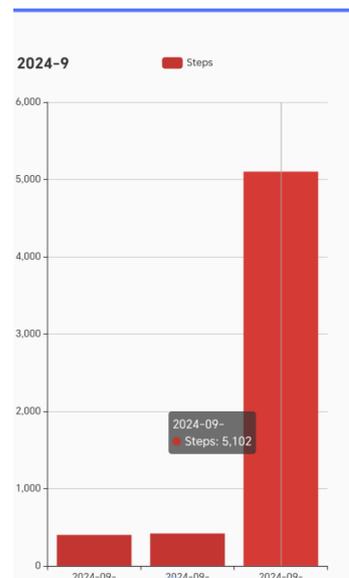
The command sent successfully



Select date to check historical data



Choose date to check health data history



The step count feature's health data visualization chart defaults to

showing the weekly step count chart. Tapping a bar for a specific date will display the step count for that day. Tap the calendar button in the top row to select different dates and display historical data on a daily basis. If there is data for the day, a chart will be drawn; if there is no data, "No data" will be displayed on the date.

5.2 Photos

Click the photo button to enter the photo and album functions. The main interface of the album function consists of two parts. The top line is the return button, upload picture button, and take a photo now button. Click the back button to return to the device function interface. Click the upload image button to upload images from your phone to this software. Click the 'Take Photo Now' button, and this software will send a photo command to the device, remotely control the device camera to take photos and upload them to this software. The lower part of the album function main interface displays thumbnails, and photos taken remotely from the device and uploaded from the phone will be arranged in chronological order to display their thumbnails. With open permissions in this software, you can also click on the image thumbnail to view a larger image.

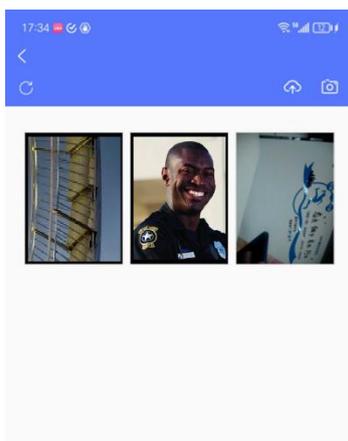
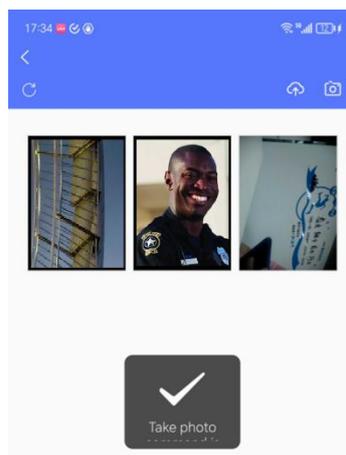
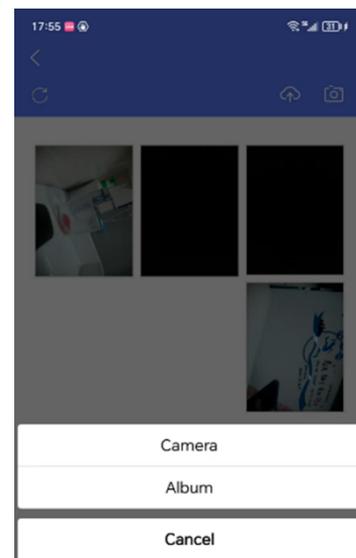


Photo list

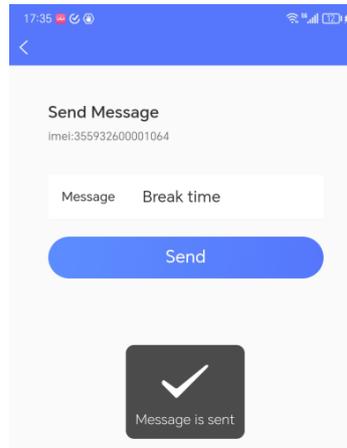


Send take photo command



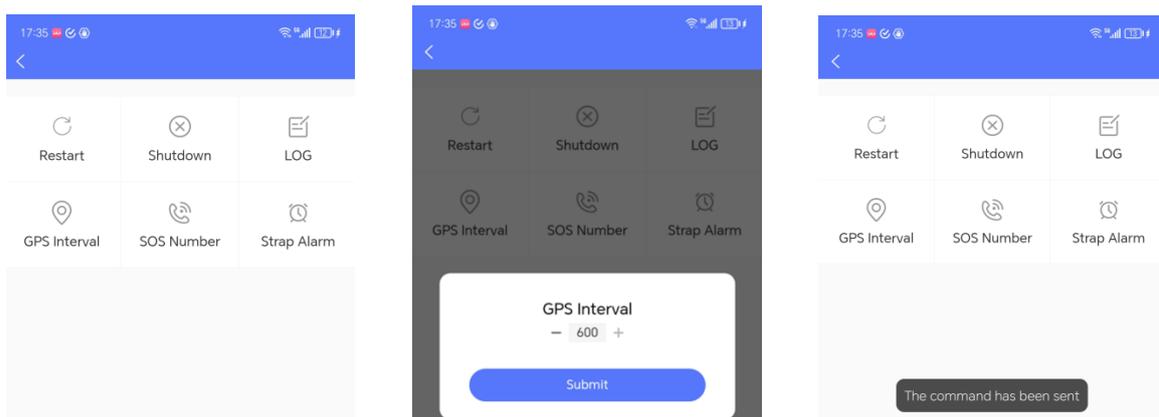
Upload photo

5.3 Message



Click the message function button to enter the send message function. This function interface is divided into two parts, with the top edge displaying the return button. The lower part of the interface displays the IMEI number of the target device for sending the message, the message content text box, and the send button. After filling in the message content and clicking the send button, this software will send text information to the device through the network, and then display "message sent". If the corresponding IMEI number device is not found, it will display "message sending failed".

5.4 Command

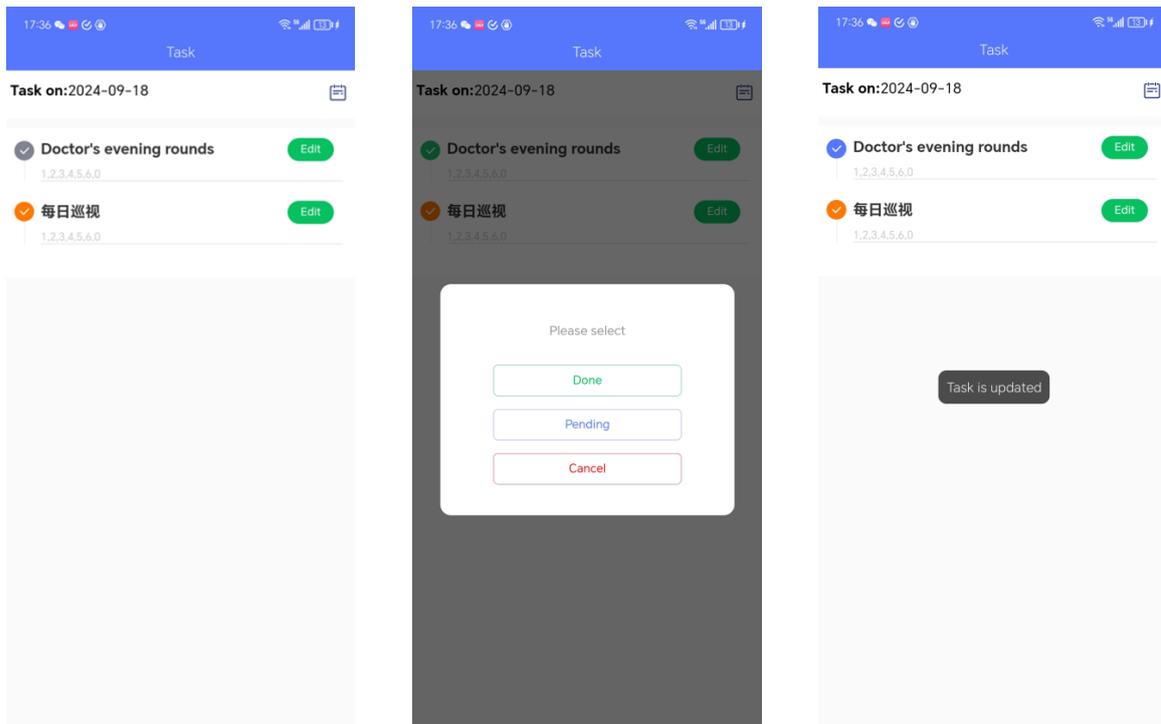


Command button Configure GPS interval The command has been sent

Click the command button to enter the command issuance function. This function interface is divided into two parts, with the top edge displaying the return button. The lower part of the interface displays command buttons that

can be issued. After clicking a command button, the software will send the command to the device through the network and display "Command Sent". If the corresponding IMEI number cannot be found or the current device does not support the command, it will display "Message Sending Failed".

6. Task

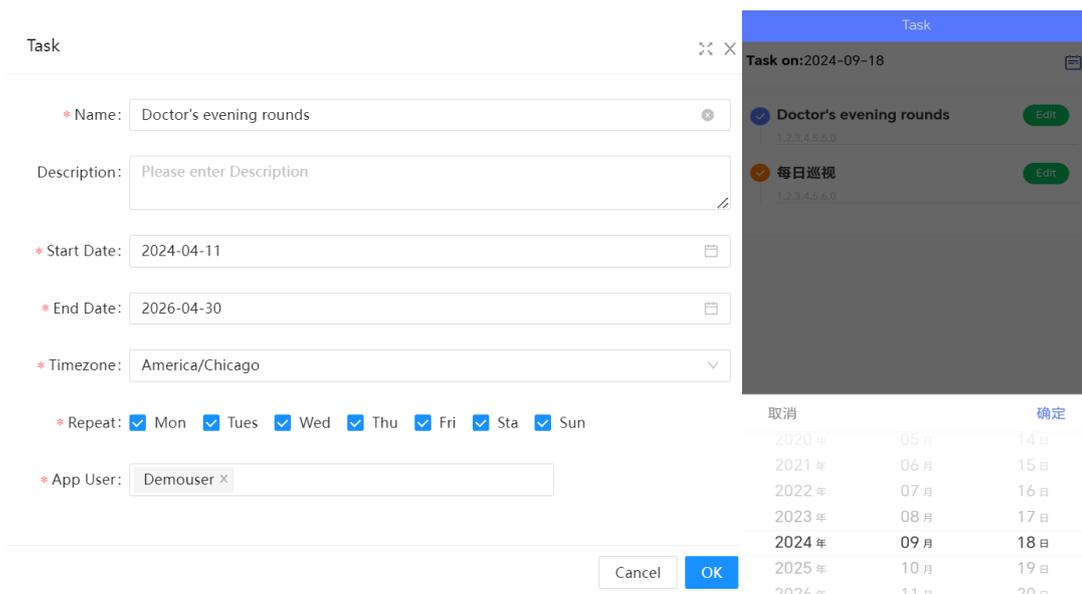


Task List

Editing Task

Task Updated

This function is used to manage tasks distributed by the system.



Assign tasks to app users

Check task list

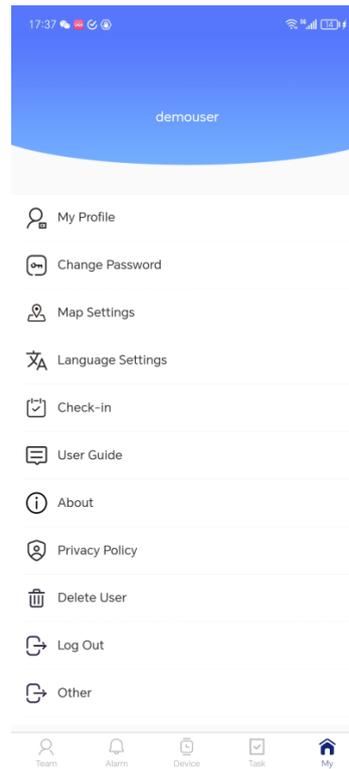
If the task has been completed, you can click the corresponding button to set the status of the task. This interface consists of three parts: the top edge is the current date and calendar button. The middle part is the task list. Each task displays a circular symbol at the far left, indicating the completion status of the task. If all tasks are completed, it is displayed as a green circular symbol with a white check mark in the middle; When some sub tasks are completed, a circular icon with a blue background and white heart will be displayed; If the new task is not completed, it will display orange; Invalid or expired tasks are displayed in gray. Each task will also display the task title, duplicate date, and edit button. Clicking on the edit button for each task will bring up an editing pop-up window, displaying buttons for users to choose between editing the task as completed, pending, or cancelled. After the user presses the button, the software will update the task status and display a "Task Updated" pop-up window.

This software supports setting task reminders in the task details page, with eight reminder rules that can be set. Namely: at the start of the task, before the start of the task, after the start of the task, at the end of the task, before the end of the task, after the end of the task, at a specified time, and with a loop reminder. The specified time can be a specified date, or it can be repeated by selecting one or more days from Monday to Sunday each week.

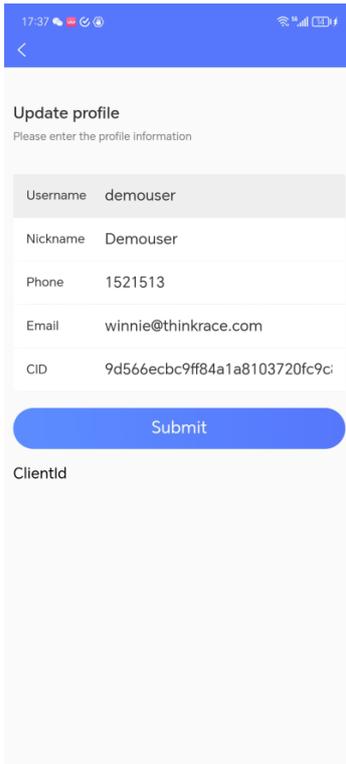
Click on the calendar in the upper right corner of the task management interface to select a date to view the daily task list.

This software sets tasks in the background, and tasks can only be assigned from superiors to subordinates, not from subordinates to superiors. Superiors can delegate tasks beyond their level and select multiple subordinates to assign batch tasks to them. After the task is established, only the task creator can modify and cancel the task, and the executor does not have the authority to modify or cancel the task.

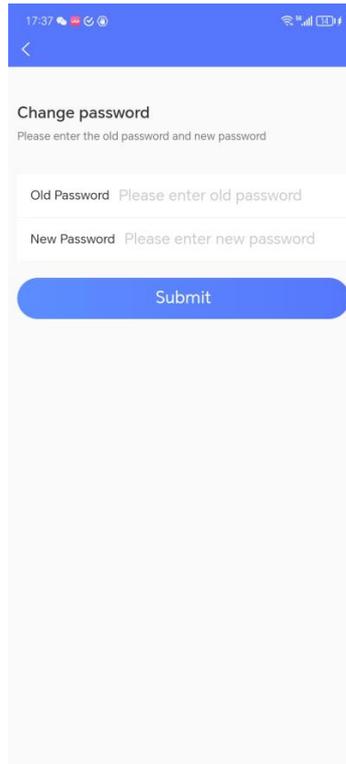
7. My



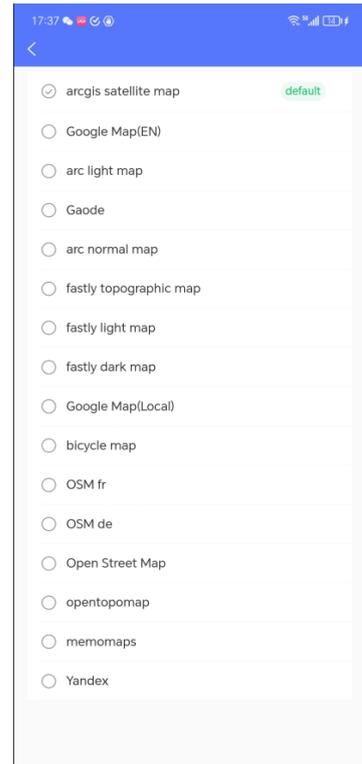
Click on my button from the homepage to access my functions. My feature page consists of three parts, the top of which is the profile picture and APP user information bar, displaying the APP user's account name and profile picture. In the middle is the menu bar, which includes My Profile, Change Password, Map Settings, Language Settings, Check-in, User Guide, About, Privacy Policy, Delete User, and Log Out.



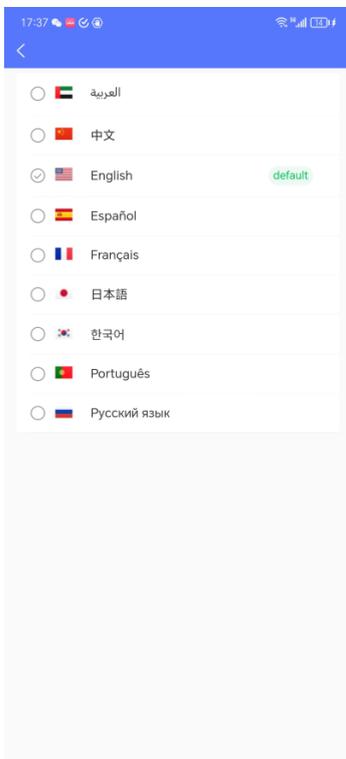
My profile



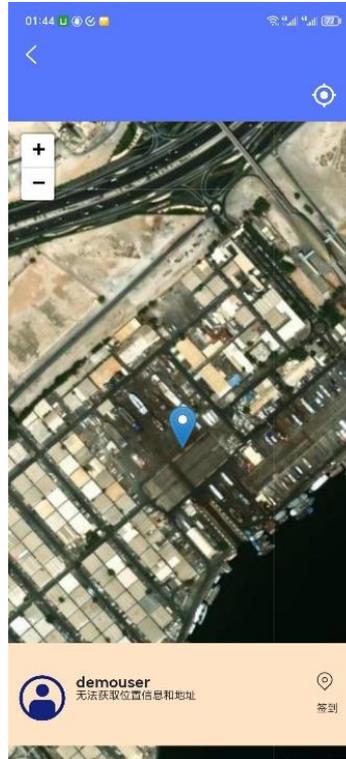
Changes password



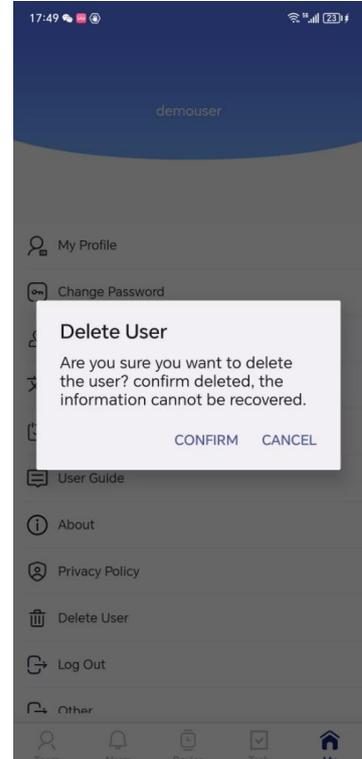
Map settings



Language Settings



Check-in



Delete User

7.1 Check-in

The check-in function allows caregivers to clock in on-site. When caregivers need to report their location and status to this software, or complete check-in tasks according to work requirements, this function can be used. Click the clock in button on my main interface to enter the clock in interface.

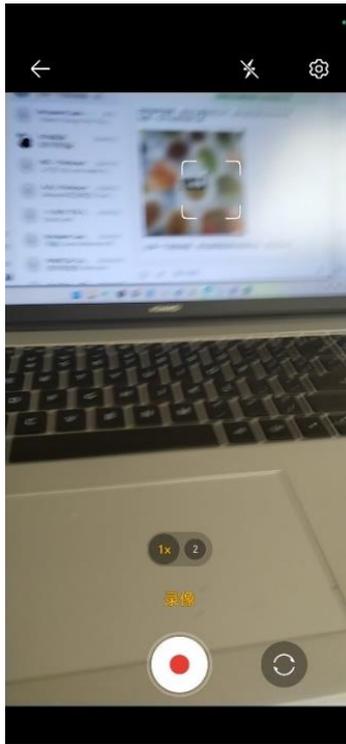
The check-in interface is divided into three parts, with the top edge being the return button and the positioning button; The middle part shows the location of the app user on the map, while the lower part is the check-in information area.

The check-in information area displays the app user name, text address, avatar, and check-in button.

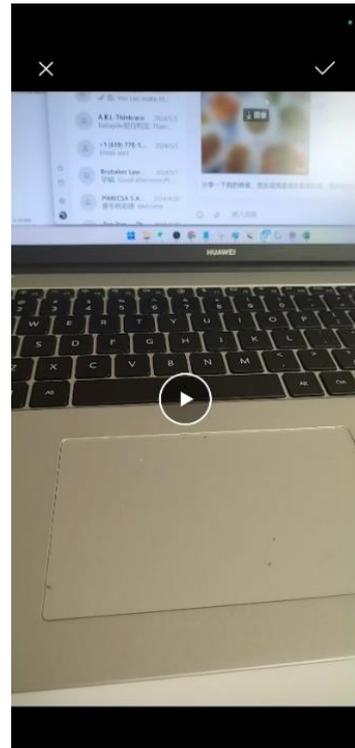
App users first click the location button, and the map area will display their latest location in a bubble. Clicking   on the map area will zoom in and out of the map. If the latest location is incorrect, you can move on the map and select your correct location. After confirming the location is correct, click the check-in button in the check-in information area. This software will open the phone camera and display a preview screen. App users aim their cameras at the check-in content and click on record to start recording the video. You can adjust the flash, image settings, focus, zoom, switch lenses, and other operations through the function buttons. After the recording is completed, this software will display a preview. After the customer confirms the content, click the  on the top edge of the check-in interface.



Check in interface



Record a video



Preview and upload

This software will upload the video and its corresponding time and location information to complete one check-in. The manager would check the check-in video in the webpage.

Nickname	Remark	Address	DateTime	Menu
Demouser	Checkin Video	no location and address	2024-09-05 10:31:00	View Delete
demouser	Checkin Video	无法获取位置信息和地址	2024-07-26 15:03:46	View Delete
Demouser	Checkin Video	China, Guang Dong Sheng, Shen Zhen Shi, Nan Qu, Nanyou, Xingnan Rd, 南油文化广场 邮政编码: 518064	2024-05-05 03:50:25	View Delete
Demouser	Checkin Video	no location and address	2024-05-01 08:13:21	View Delete
Demouser	Checkin Video	no location and address	2024-04-11 09:20:11	View Delete
Demouser	Checkin Video	Zhong Guo You Zheng Chu Xu Yin Hang ATM, 科技园 Nan Shan Qu, Shen Zhen Shi, Guang Dong Sheng, China, 518060	2024-03-19 20:34:26	View Delete