

Vital Sign Alert

Vital Alert Dashboard

V1.240510

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
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Overview

Side Bar

The Side Bar can be found at the left side of the dashboard when logged in.

Click on  beside the logo to expand or collapse the Side Bar.

Description of the Sidebar

View	Description
Monitoring and Analysis	
-Real Time Data	Summarized real time view of mat activity
-Sleep Analysis	Summarized view of sleep data
Bed Management	
-Bed Allocation:	
--Floor Management	Create & view floors available, including Room & Device Count
--Room Management	Create & view rooms available, including Floor, Bed Count, Device Count
--Bed Management	Create & view beds available, including Floor, Room, Bed, User Name, Device Serial Number / ID
Device Management	
-My Device:	
--Device Bind	Status of device binding, including Binding & Unbinding, Device Serial Number / ID, Firmware Version, Floor, Room, Bed, User Name, Status
Admission Manager	
-Resident Management:	
--Resident List	List of available residents including Vital Signs, Sleep Report, Device Status Record, Check In / Out, Alert Settings
--New Resident	Create a new resident
System Management	
-System Setting:	
--System Version	Version of the dashboard

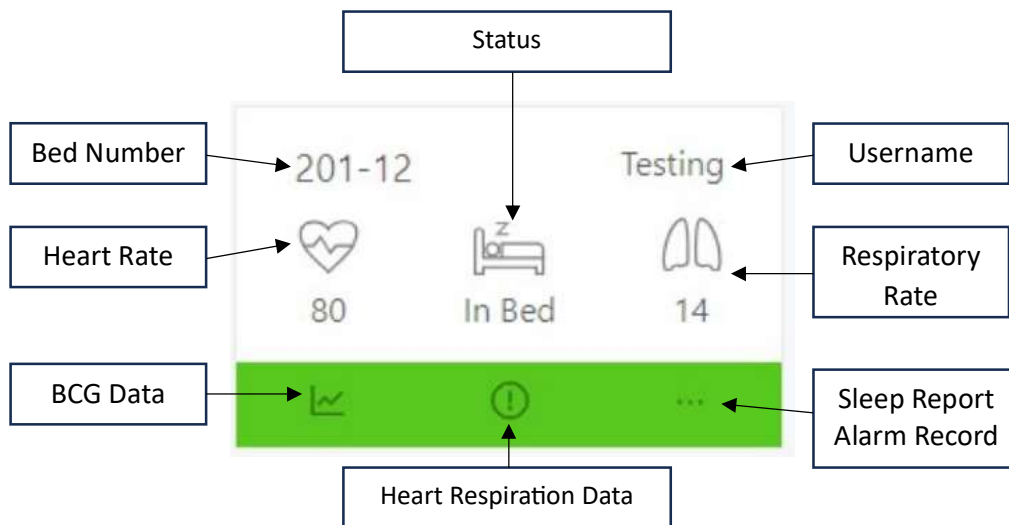
Operational Checklist

The dashboard user will have to ensure that the following items on the checklist has been processed to complete the procedure.

- ✓ Create or Available Bed
- ✓ Add or Available Device
- ✓ Bind Device
- ✓ Created Resident
- ✓ Check In Resident

Real Time Data Legend

		
<p>Mat is offline</p>	<p>Mat is online but no user is on bed</p>	<p>Mat is online, user is on bed</p>

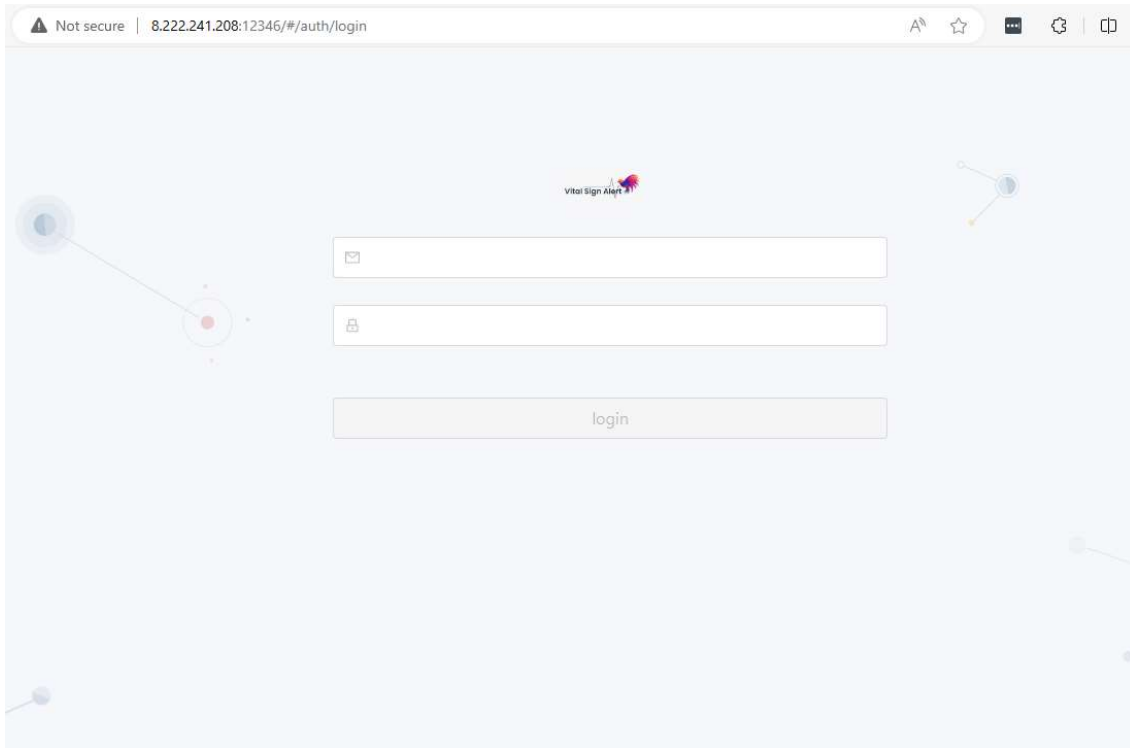


Terms & Descriptions

- Heart Rate – The number represents the beats per minute (BPM).
- Respiratory Rate – The number represents the breath rate per minute (RPM)
- BCG Data – BCG stands for ballistocardiography, a non-invasive method of measuring heart rate and blood pressure. The live BCG data can be viewed when clicked upon. It shows the Heart Rate (BPM) & Respiratory Rate (RPM).

Login

Enter the following URL in your web browser: <https://www.vsadashboard.com/> and use the assigned login credentials, USER & PASSWORD, to access the dashboard.

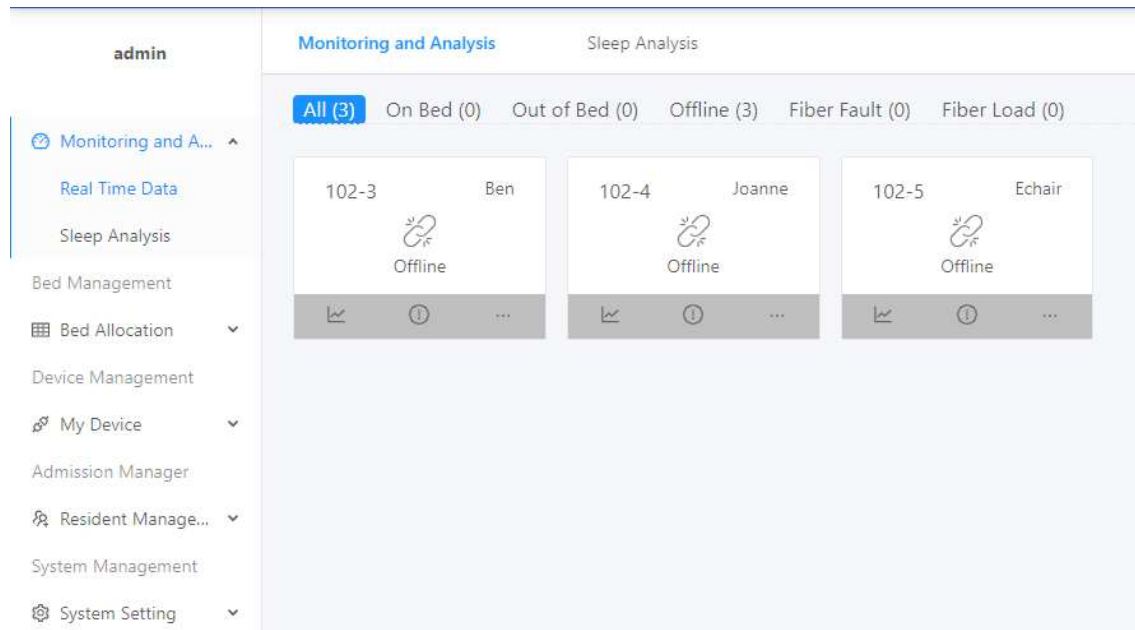


Monitoring and Analysis

Real Time Data

You can view via the following methods:

- You will view the page upon login.
- Click on the logo.
- At the side bar, expand the “Monitoring and Analysis”, select “Real Time Data”.



Sleep Analysis

At the side bar, expand the “Monitoring and Analysis”, select “Sleep Analysis”.

The screenshot shows a web application interface for Sleep Analysis. On the left is a sidebar with a menu where 'Monitoring and Analysis' is expanded to 'Sleep Analysis'. The main content area has a search filter with 'Date' (Start date ~ End date) and 'User Name' fields, and 'Search' and 'Reset' buttons. Below the search is a table with the following data:

User Name	Avg Heart Rate	Avg Respiration	TST(min)	ST(min)	SOL(min)	WASO(min)	On Bed Time
jing heng	71 rpm	15 bpm	0	0	2 hr 17 min	0 min	09:40 am

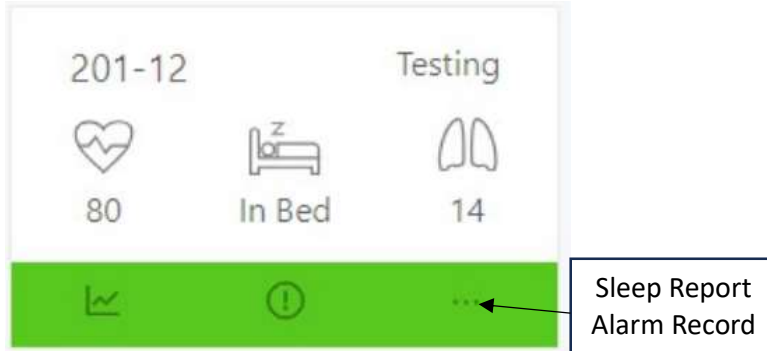
Terms & Descriptions

- Avg Heart Rate – The average heart rate during the duration of the user on the mat, measured by beat per Minute (BPM).
- Avg Respiration – The average respiratory rate during the duration of the user on the mat, measured by breath rate per minute (RPM).
- Total sleep time (TST) - The total amount of time spent asleep during a sleep period. It is typically measured in minutes or hours. TST is an important measure of sleep quality because it reflects the amount of restorative sleep that a person is getting.
- Sleep Efficiency (SE) - The measure of how efficiently a person sleeps. It is calculated by dividing TST by the time spent in bed (TIB) (duration of On Bed Time to Bed Exit Time) and multiplying by 100. A SE of 85% or higher is considered to be good sleep efficiency.
- Sleep Latency (SOL) - The amount of time it takes to fall asleep after lying down in bed. SOL is typically measured in minutes.
- Wake After Sleep Onset (WASO) - The total amount of time spent awake after falling asleep, inclusive of the duration of Bed Exit & Wake Up. WASO is typically measured in minutes.
- On Bed Time – The time or duration where the user last gets on the bed & sensed by the mat before sleeping.
- Start Sleep Time - The time that the user starts to sleep
- Wake Up time – The time that the user wakes up
- Bed Exit Time – The time that the user leaves the bed & no longer sensed by the mat.

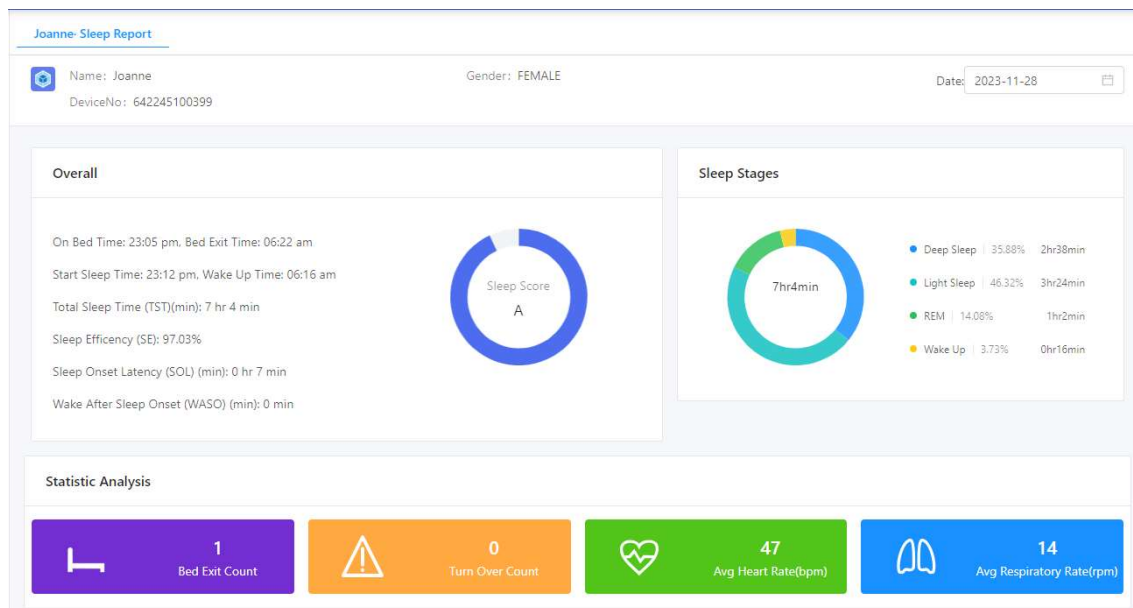
Sleep Report

You can view via the following methods:

- On the “Real Time Data” page, click on the “...”, select “Sleep Report”.



- At the side bar, expand the “Monitoring and Analysis”, select “Sleep Analysis”, scroll to the right, click on “View Detail”.



Terms & Descriptions

Overall

- Total sleep time (TST) - The total amount of time spent asleep during a sleep period. It is typically measured in minutes or hours. TST is an important measure of sleep quality because it reflects the amount of restorative sleep that a person is getting.
- Sleep Efficiency (SE) - The measure of how efficiently a person sleeps. It is calculated by dividing TST by the time spent in bed (TIB) and

multiplying by 100. A SE of 85% or higher is considered to be good sleep efficiency.

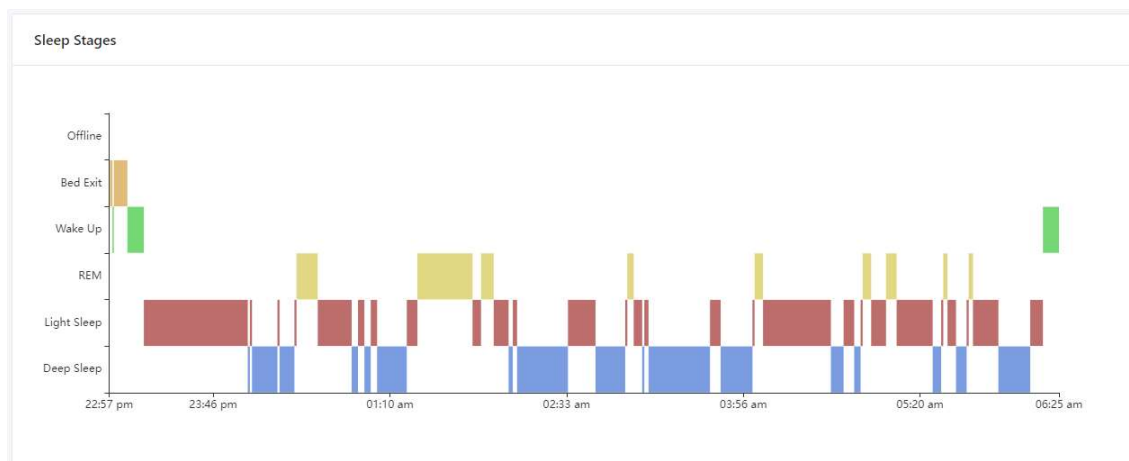
- Sleep Latency (SOL) - The amount of time it takes to fall asleep after lying down in bed. SOL is typically measured in minutes.
- Wake After Sleep Onset (WASO) - The total amount of time spent awake after falling asleep. WASO is typically measured in minutes.
- On Bed Time – The time that the user gets on the bed & sensed by the mat
- Start Sleep Time - The time that the user starts to sleep
- Wake Up time – The time that the user wakes up
- Bed Exit Time – The time that the user leaves the bed & no longer sensed by the mat.
- Sleep Score – The representation of your sleep quality.

Sleep Stages

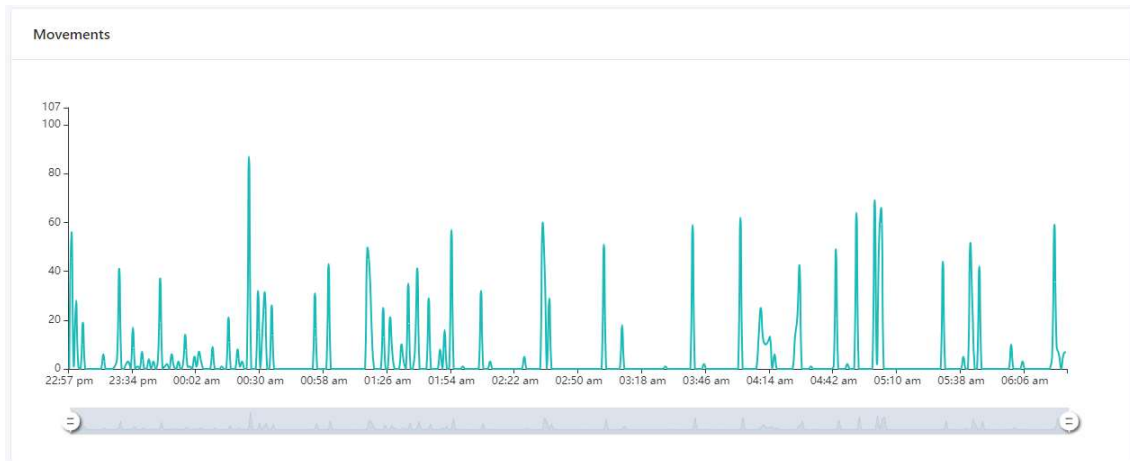
- Deep Sleep - The most restorative stage of sleep.
- Light Sleep - Transitional stage between wakefulness and deep sleep.
- REM - The stage of sleep when we dream.
- Wake Up - Transitional stage between sleep and wakefulness.

Statistic Analysis

- Bed Exit Count – The number of times the user exited the bed
- Turn Over Count – The number of times the user turned over
- Avg Heart Rate (BPM) - The average heart rate during the duration of the user on the mat, measured by beat per Minute (BPM).
- Avg Respiratory Rate (RPM) - The average respiratory rate during the duration of the user on the mat, measured by breath rate per minute (RPM).



The chart depicts the sleep stages of the user.



The chart depicts the movement of the user



The chart depicts the heart rate of the user.



The chart depicts the respiratory rate of the user.

Sleep Stages List			
Start Time	End Time	Sleep Type	Sleep Duration
23:14 pm	06:17 am	Night Sleep	7 hr 3 min

Bed Exit List			
Start Time	End Time	Duration	
No Data			

Night Wake List			
Start Time	End Time	Duration	
No Data			

The table states the Sleep Stages, Bed Exit & Night Wake.

Bed Management

Bed Allocation

Floor Management

At the side bar, expand the “Bed Allocation”, select “Floor Management”.

The screenshot shows the 'Floor Management' page in a web application. On the left is a sidebar with a tree view under 'Bed Allocation' containing 'Floor Management', 'Room Management', and 'Bed Management'. The main content area has a breadcrumb 'home / Bed Allocation / Floor Management' and a '+ New Floor' button. Below is a table with the following data:

Floor Name	Created By	Room Count	Device Count	Crea
1	admin	2	4	2023-11

At the bottom of the table, there is a pagination control showing '1 - 1 of 1' and a 'Goto' field.

To create a new floor, click on “New Floor” & “Add Floor”, enter the floor number as required, click “Save”.

The screenshot shows a modal window titled 'New Floor - Count : 0'. It contains a '+ Add Floor' button, a 'Max Count: 10' label, and 'close' and 'save' buttons.

Room Management

At the side bar, expand the “Bed Allocation”, select “Room Management”.

The screenshot shows the 'Room Management' page. On the left is a sidebar with the following menu items: 'Monitoring and A...', 'Bed Management', 'Bed Allocation' (expanded), 'Floor Management', 'Room Management' (selected), 'Bed Management', 'Device Management', 'My Device', 'Admission Manager', 'Resident Manage...', 'System Management', and 'System Setting'. The main content area has a breadcrumb 'home / Bed Allocation / Room Management' and a '+ New Room' button. Below is a table:

Room Name	Floor Name	Bed Count	User Count
102	1	3	3
3	1	1	1

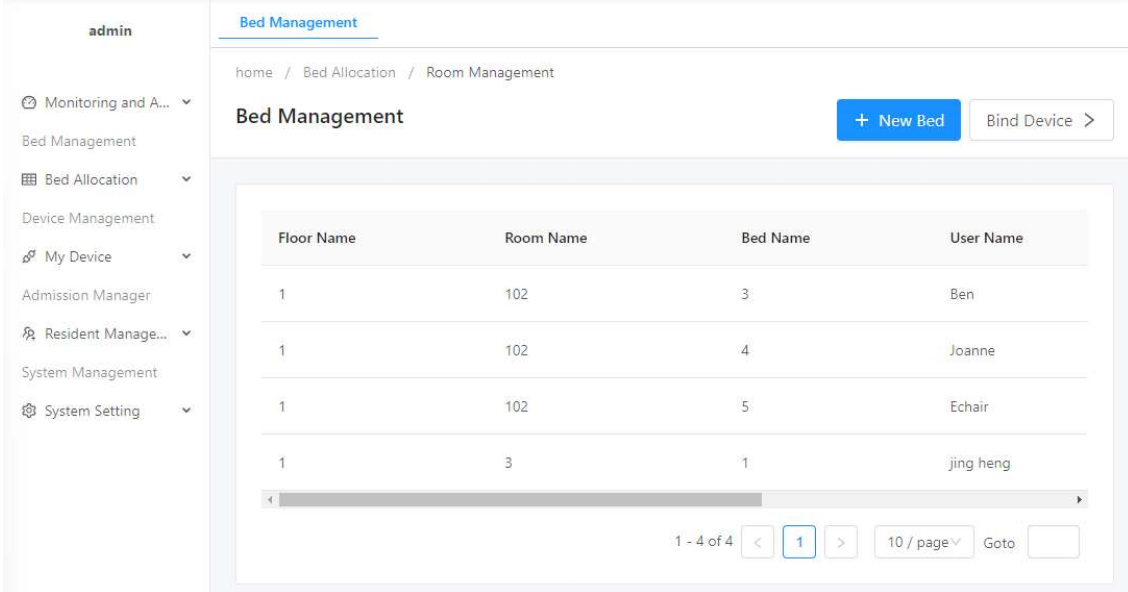
At the bottom of the table, there is a pagination control showing '1 - 2 of 2' items, a page number '1', and a '10 / page' dropdown.

To create a new room, click on “New Room”, select from the available floor(s), click on “Add Room”, enter the room number as required, click “Save”.

The 'New Room' modal form is titled 'New Room - Count: 0'. It features a 'Select Floor' dropdown menu, an '+ Add Room' button, and a 'Max Count: 10' label. At the bottom right, there are 'close' and 'save' buttons.

Bed Management

At the side bar, expand the “Bed Allocation”, select “Bed Management”.



The screenshot shows the "Bed Management" page in a web application. The left sidebar contains a navigation menu with the following items: "Monitoring and A...", "Bed Management", "Bed Allocation", "Device Management", "My Device", "Admission Manager", "Resident Manage...", "System Management", and "System Setting". The "Bed Allocation" menu item is expanded, and "Bed Management" is selected. The main content area displays the "Bed Management" page with a breadcrumb trail: "home / Bed Allocation / Room Management". There are two buttons at the top right: a blue "+ New Bed" button and a "Bind Device >" button. Below these is a table with the following data:

Floor Name	Room Name	Bed Name	User Name
1	102	3	Ben
1	102	4	Joanne
1	102	5	Echair
1	3	1	jing heng

At the bottom of the table, there is a pagination control showing "1 - 4 of 4" and a "10 / page" dropdown menu.

To create a new bed, click on “New bed”, select from the available floor(s) & room(s), click on “Add Bed”, enter the bed number as required, click “Save”.



The screenshot shows the "New Bed" modal form. The title bar reads "New Bed - Count: 0" with a close button (X) on the right. Below the title bar is a "Select Room" dropdown menu. Below the dropdown menu is a "+ Add Bed" button. At the bottom of the modal, there is a "Max Count: 10" label and two buttons: "Save" and "Close".

Device Management

My Device

Device Bind

At the side bar, expand the “My Device”, select “Device Bind”.

Room Name	Bed Name	User Name	status	Operation
			● Out of Bed	Bind
3	1	jing heng	● Out of Bed	Unbind
102	3	Ben	● Offline	Unbind
102	4	Joanne	● Offline	Unbind

To bind a device, scroll to the right, select the device to bind by clicking on “Bind”. Select the bed to bind the device & click “Save”.

Bind device to bed: 641938000403

Select Bed :

Close Save

To check the serial number, look at the label on the Signal Processing Unit of the device.

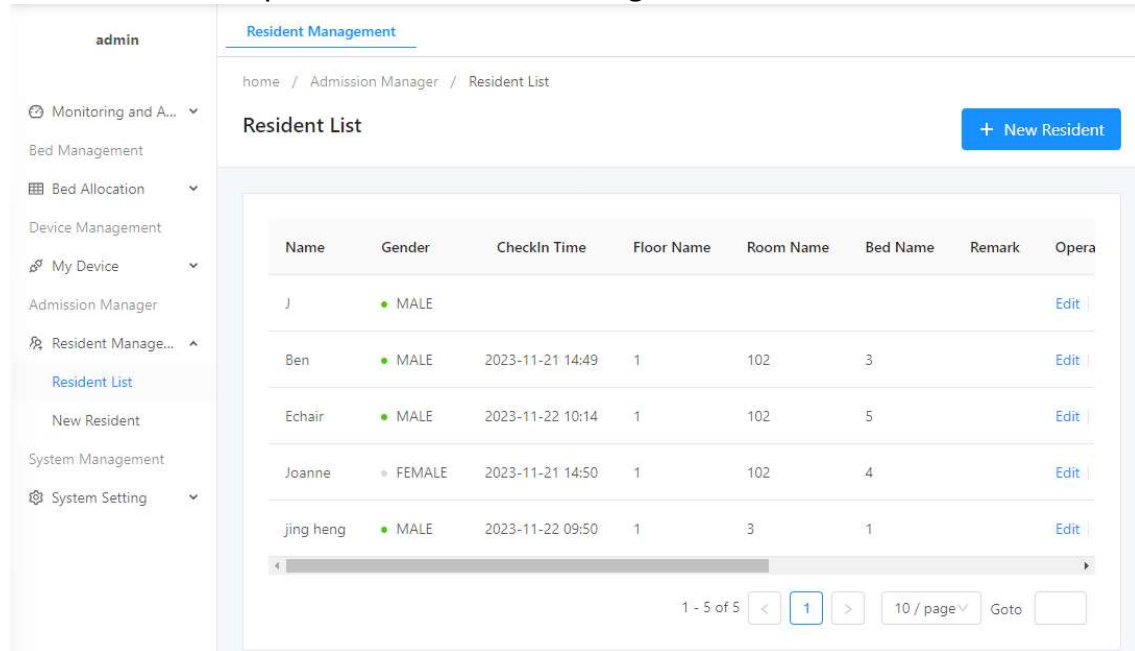


Admission Manager

Resident Management

Resident List

At the side bar, expand the “Resident Management”, select “Resident List”.



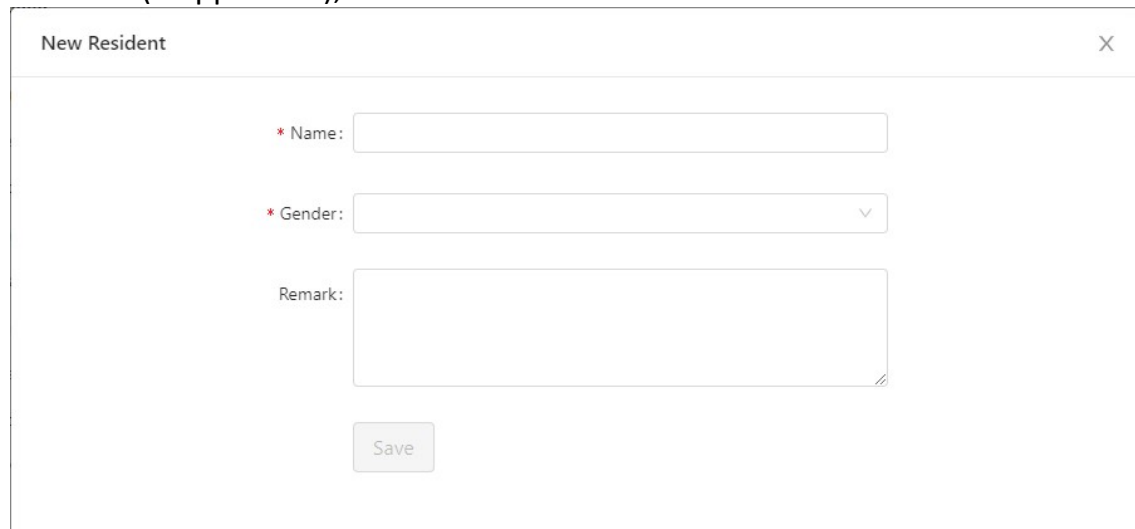
The screenshot shows the 'Resident List' page. On the left is a sidebar with a menu where 'Resident List' is selected under 'Resident Management'. The main content area has a breadcrumb 'home / Admission Manager / Resident List' and a '+ New Resident' button. Below is a table with columns: Name, Gender, CheckIn Time, Floor Name, Room Name, Bed Name, Remark, and Opera. The table contains five rows of resident data. At the bottom right, there is a pagination control showing '1 - 5 of 5' and a 'Goto' field.

Name	Gender	CheckIn Time	Floor Name	Room Name	Bed Name	Remark	Opera
J	MALE						Edit
Ben	MALE	2023-11-21 14:49	1	102	3		Edit
Echair	MALE	2023-11-22 10:14	1	102	5		Edit
Joanne	FEMALE	2023-11-21 14:50	1	102	4		Edit
jing heng	MALE	2023-11-22 09:50	1	3	1		Edit

New Resident

At the side bar, expand the “Resident Management”, select “Resident List”.

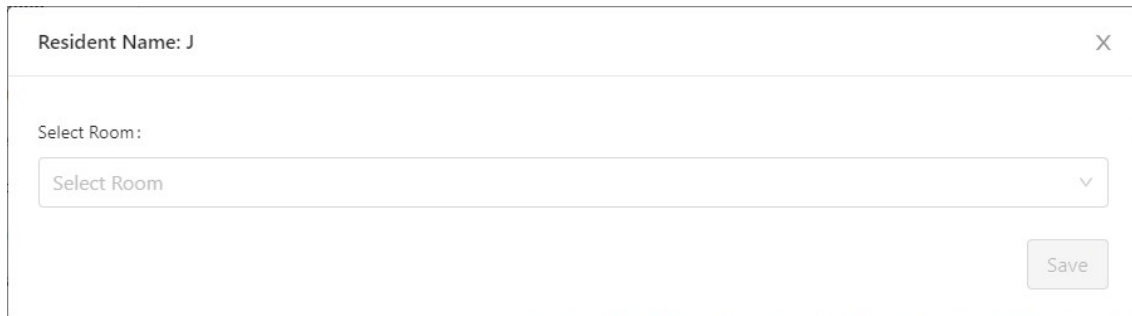
To add a new resident, click on “New Resident”, enter the Name, Gender, Remarks (if applicable), click “Save”.



The screenshot shows a 'New Resident' form with a close button (X) in the top right corner. The form contains three input fields: a text field for '* Name:', a dropdown menu for '* Gender:', and a text area for 'Remark:'. Below the fields is a 'Save' button.

Check In / Out

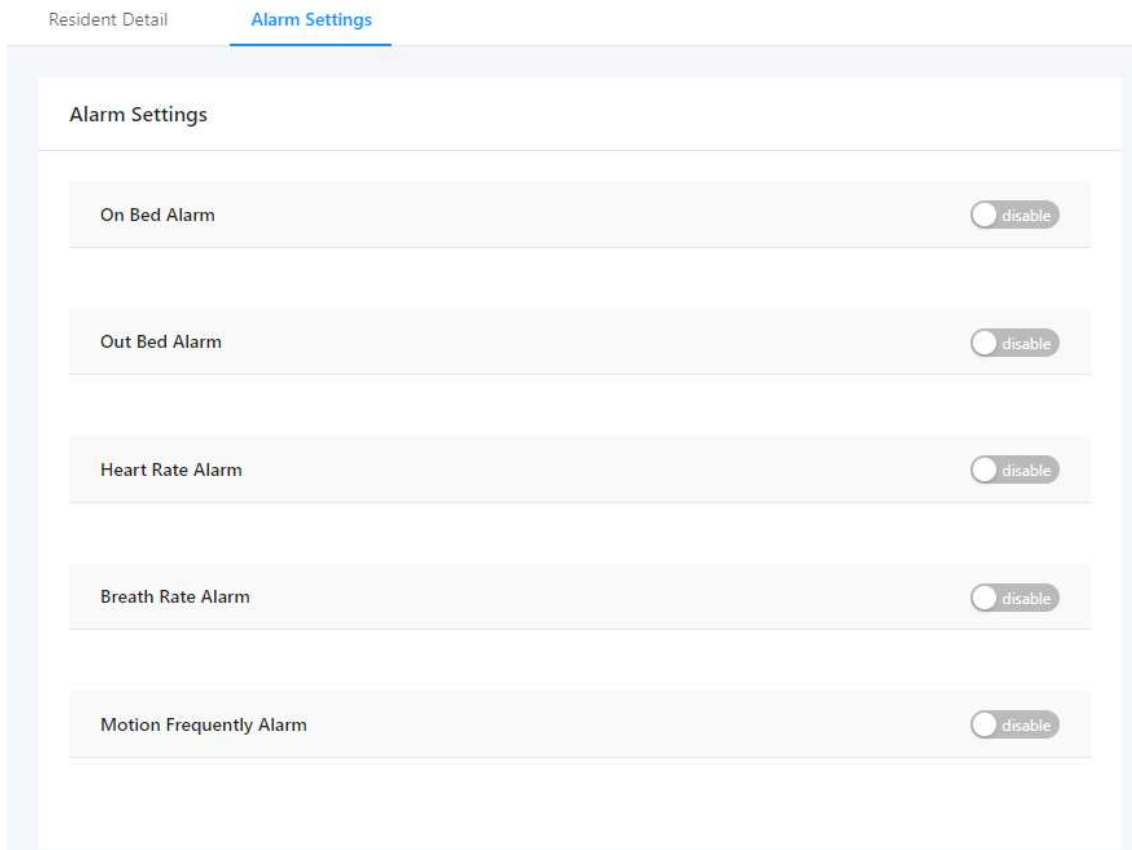
At the side bar, expand the “Resident Management”, select “Resident List”. Scroll to the right, click on “Check In” to select the available beds. For check out, click on “Check Out” and confirm the action.



A modal window titled "Resident Name: J" with a close button (X) in the top right corner. Below the title is a "Select Room:" label and a dropdown menu with the text "Select Room" and a downward arrow. A "Save" button is located in the bottom right corner of the modal.

Alert Settings

At the side bar, expand the “Resident Management”, select “Resident List”. Scroll to the right, click on “Edit”, select the “Alert Setting” tab, and toggle the alerts accordingly.



The "Resident Detail" page with the "Alarm Settings" tab selected. The page displays five alert settings, each with a "disable" toggle switch:

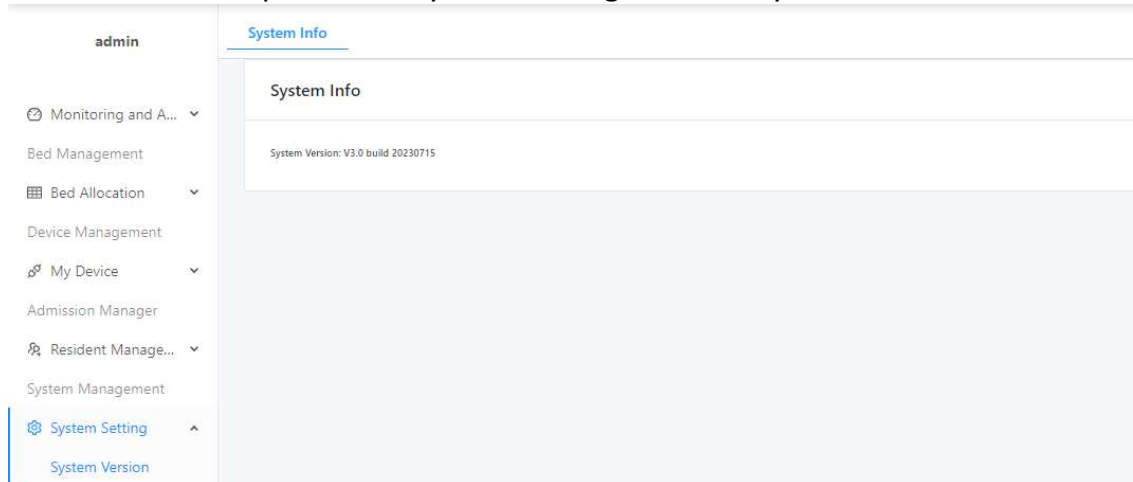
- On Bed Alarm
- Out Bed Alarm
- Heart Rate Alarm
- Breath Rate Alarm
- Motion Frequently Alarm

System Management

System Setting

System Version

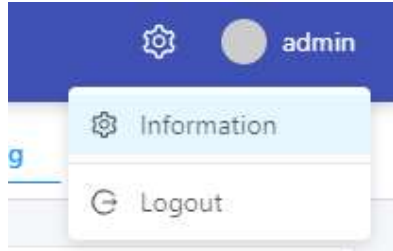
At the side bar, expand the “System Setting”, select “System Version”.



Profile

Information Setting

At the top right, click on the profile to open the menu, select “Information”.



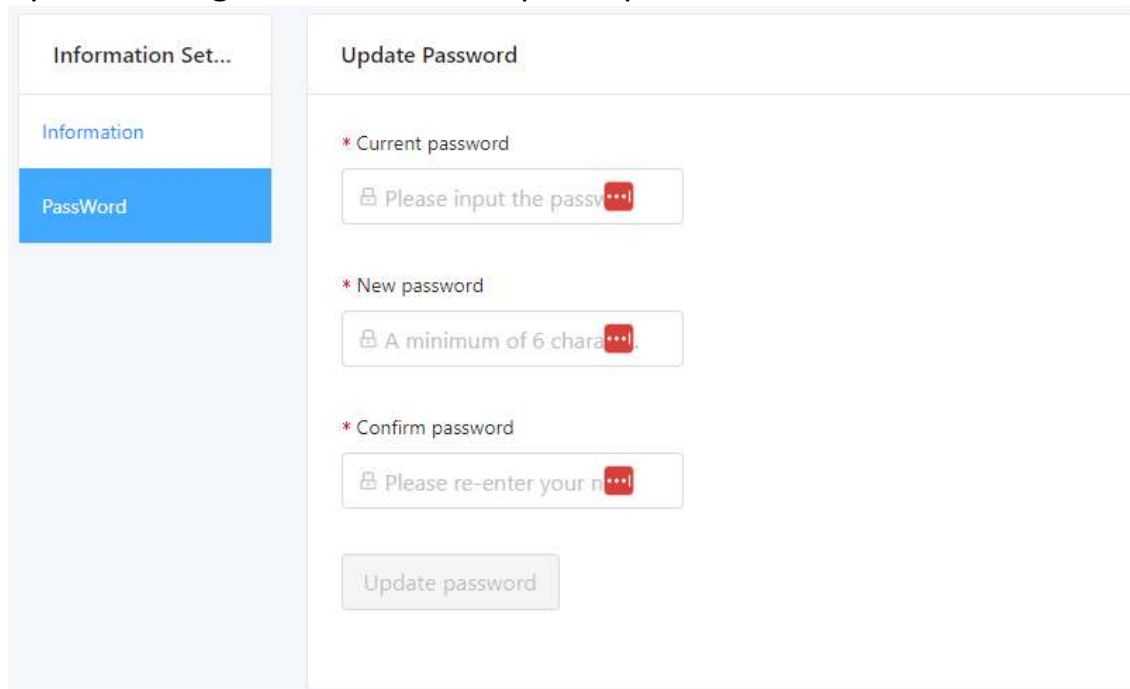
Profile Information

To change the profile information, click on the “Information” tab. To update changes, click on the “Update” button.

A screenshot of a web form titled 'Edit Information'. On the left, there is a sidebar with three tabs: 'Information Set...', 'Information' (which is highlighted in blue), and 'PassWord'. The main content area contains several input fields: a text field for 'Name' with the value 'admin' and a red eye icon; a text field for 'Phone' with the value '67630309'; a dropdown menu for 'Gender' with 'MALE' selected; and a text field for 'Address' with the value 'SG'. At the bottom of the form is a grey 'Update' button.

Password Change / Reset

To change the current password, click on the “Password” tab. To update changes, click on the “Update password” button.



The screenshot shows a user dashboard with a sidebar on the left and a main content area. The sidebar has three tabs: 'Information Set...', 'Information', and 'PassWord', with 'PassWord' selected. The main content area is titled 'Update Password' and contains three required input fields: 'Current password' (placeholder: 'Please input the passw...'), 'New password' (placeholder: 'A minimum of 6 chara...'), and 'Confirm password' (placeholder: 'Please re-enter your n...'). Each field has a red eye icon to toggle visibility. Below the fields is an 'Update password' button.

To reset the password, please contact the admin of the dashboard or solution provider.

Logout

At the top right, click on the profile to open the menu, select “Logout”.

