

# Vital Sign Alert

## Vital Alert Dashboard

V1.240117

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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
<b>Monitoring and Analysis</b>	
-Real Time Data	Summarized real time view of mat activity
-Sleep Analysis	Summarized view of sleep data
<b>Bed Management</b>	
-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
<b>Device Management</b>	
-My Device:	
--Device Bind	Status of device binding, including Binding & Unbinding, Device Serial Number / ID, Firmware Version, Floor, Room, Bed, User Name, Status
<b>Admission Manager</b>	
-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
<b>System Management</b>	
-System Setting:	
--System Version	Version of the dashboard

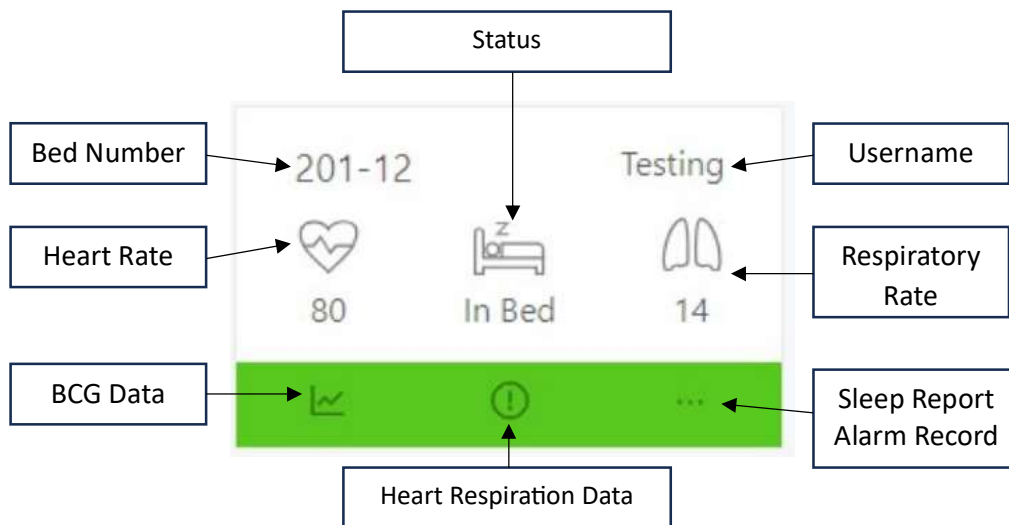
## **Operational Checklist**

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>

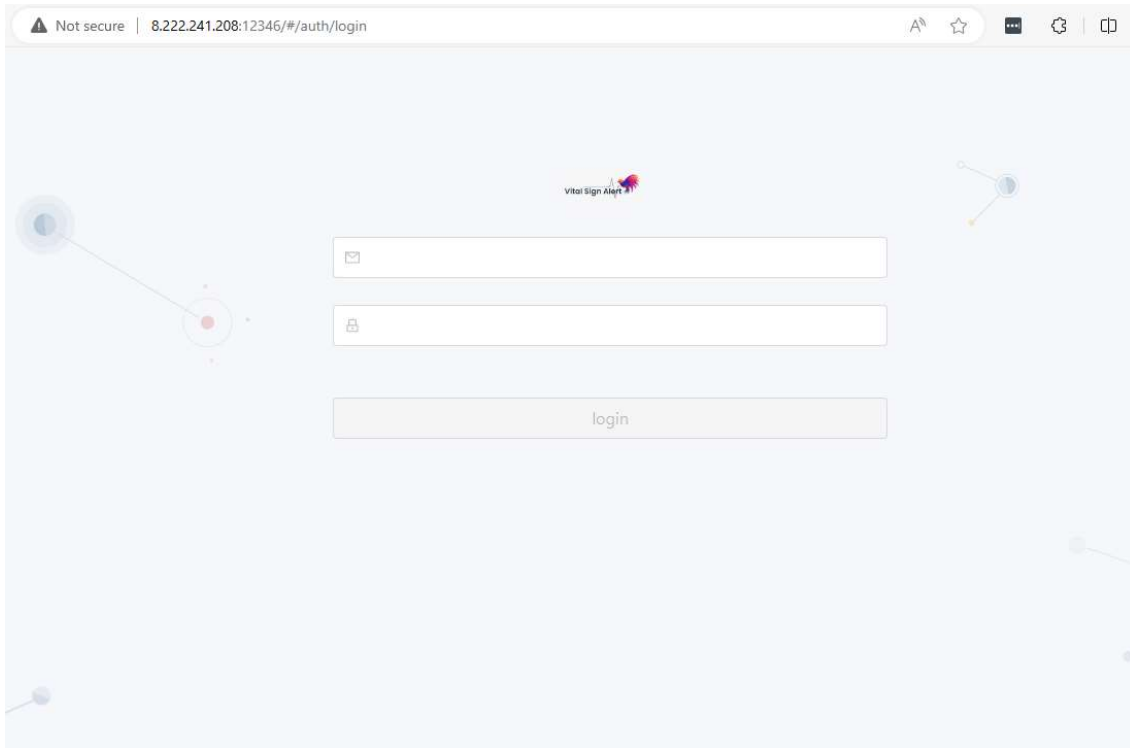


## Terms & Descriptions

- 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: <http://8.222.241.208:12346> and use the assigned login credentials, USER & PASSWORD, to access the dashboard.

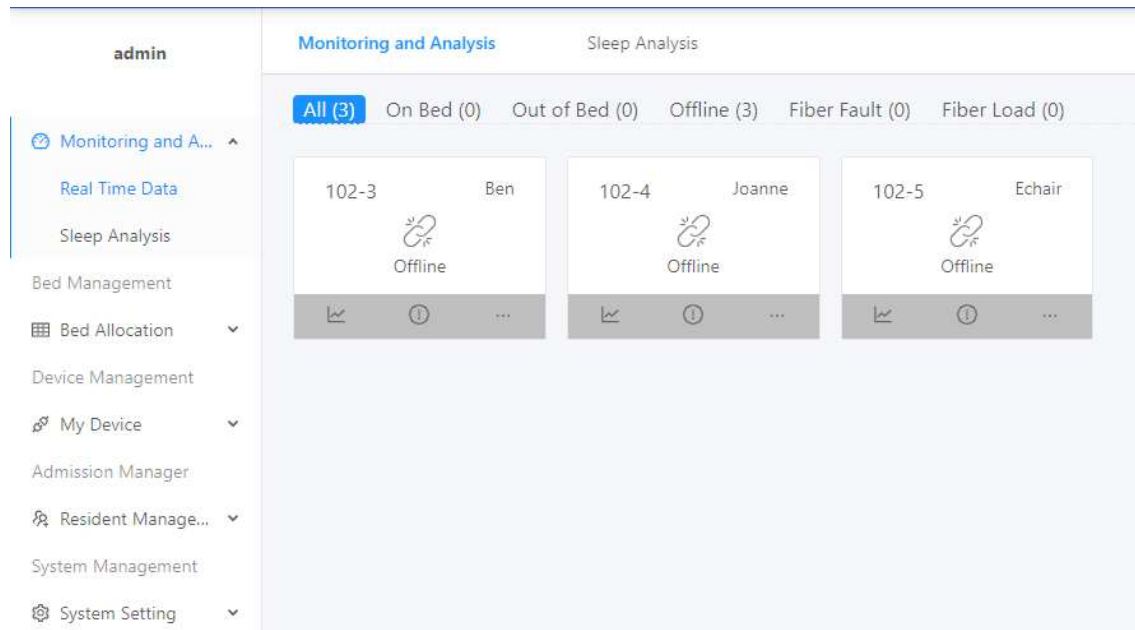


# Monitoring and Analysis

## Real Time Data

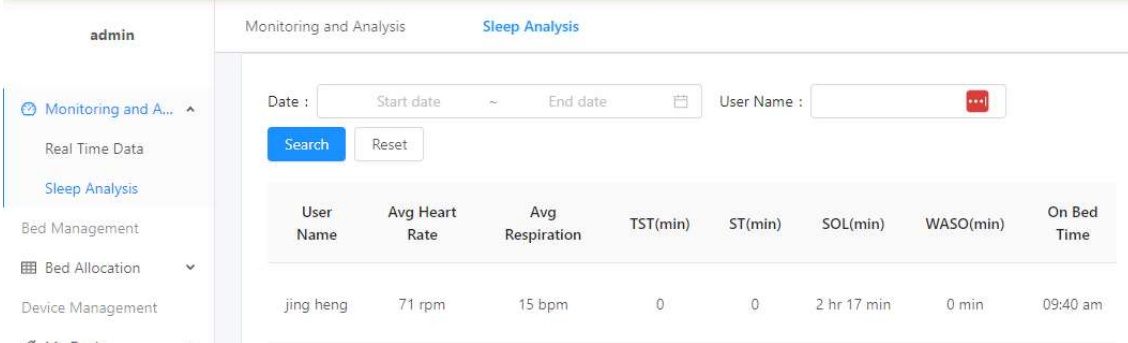
You can view via the following methods:

- 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 interface for "Sleep Analysis". On the left is a sidebar with "Monitoring and Analysis" expanded to "Sleep Analysis". The main content area has a search form with "Date" (Start date ~ End date) and "User Name" fields, and "Search" and "Reset" buttons. Below the search form 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

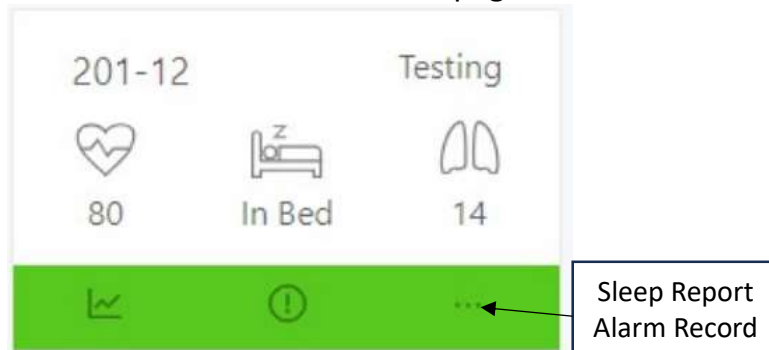
- Avg Heart Rate – The average heart rate during the duration of the user on the mat, measured by beat per Minute (BPM).
- Avg Respiration – The average respiratory rate during the duration of the user on the mat, measured by breath rate per minute (RPM).
- Total sleep time (TST) - The total amount of 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) 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.



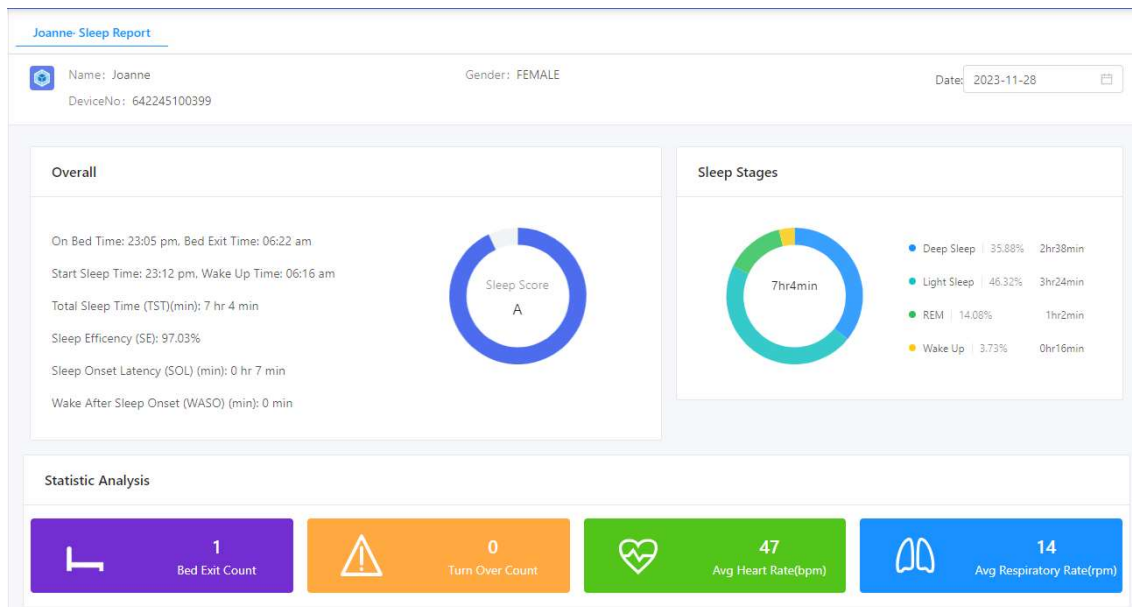
## Sleep Report

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.

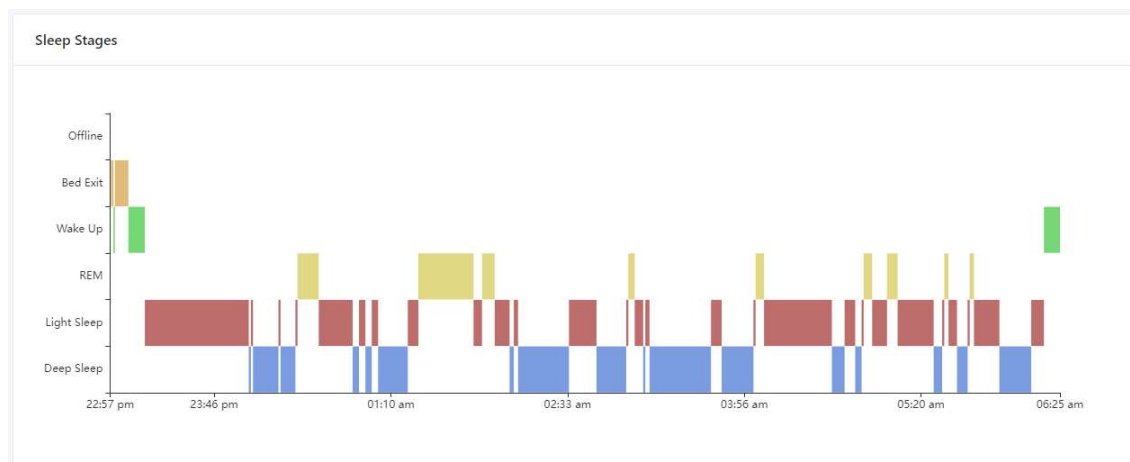
- Sleep Latency (SOL) - The amount of time it takes to fall asleep after lying down in bed. SOL is typically measured in minutes.
- Wake After Sleep Onset (WASO) - The total amount of time spent awake after falling asleep. WASO is typically measured in minutes.
- On Bed Time – The time that the user 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

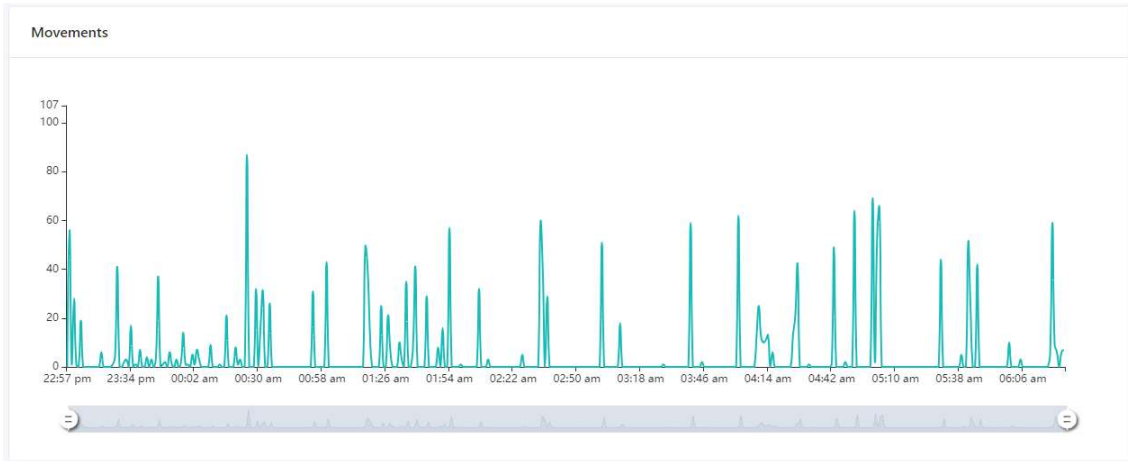
- Deep Sleep - The most restorative stage of sleep.
- Light Sleep - Transitional stage between wakefulness and deep sleep.
- REM - The stage of sleep when we dream.
- Wake Up - Transitional stage between sleep and wakefulness.

### 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			

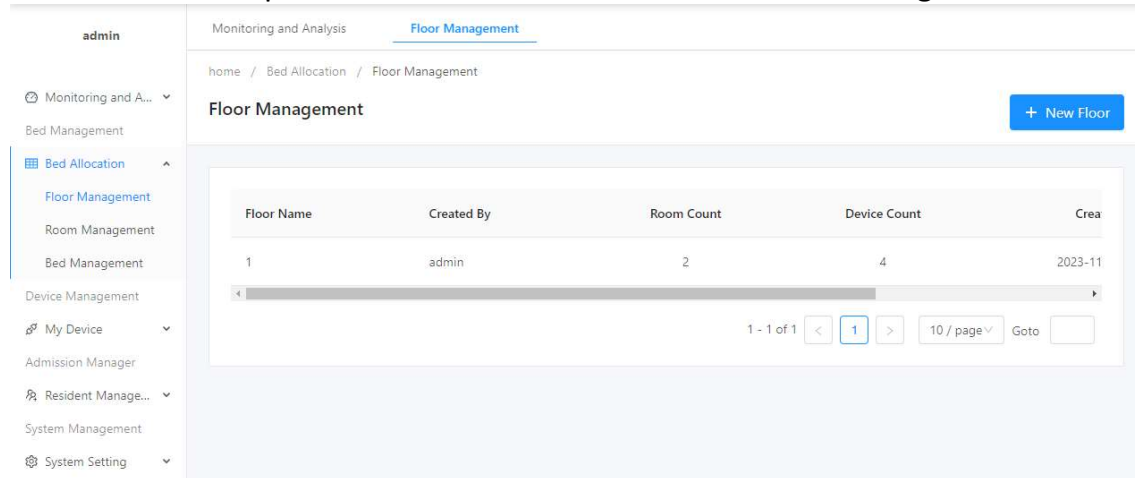
The table states the Sleep Stages, Bed Exit & Night Wake.

# Bed Management

## Bed Allocation

### Floor Management

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

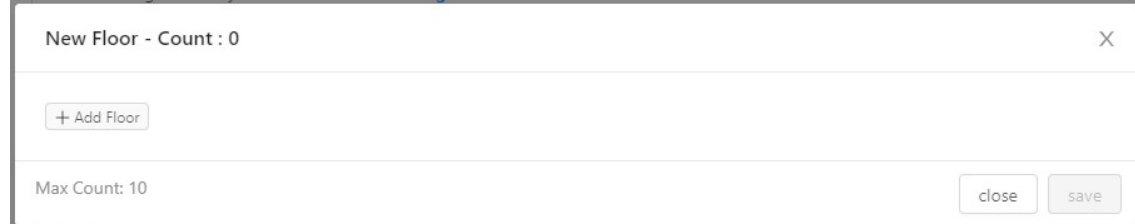


The screenshot shows a web application interface for "Floor Management". On the left is a sidebar menu with "Bed Allocation" expanded, showing "Floor Management" selected. The main content area has a breadcrumb "home / Bed Allocation / Floor Management" and a "+ New Floor" button. Below is a table with the following data:

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

Below the table is a pagination control showing "1 - 1 of 1" and "10 / page".

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



The screenshot shows a modal dialog 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...' (with a dropdown arrow), 'Bed Management', 'Bed Allocation' (expanded), 'Floor Management', 'Room Management' (selected), 'Bed Management', 'Device Management', 'My Device' (with a dropdown arrow), 'Admission Manager', 'Resident Manage...' (with a dropdown arrow), 'System Management', and 'System Setting' (with a dropdown arrow). The main content area has a breadcrumb trail 'home / Bed Allocation / Room Management' and a '+ New Room' button. Below this is a table with the following data:

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

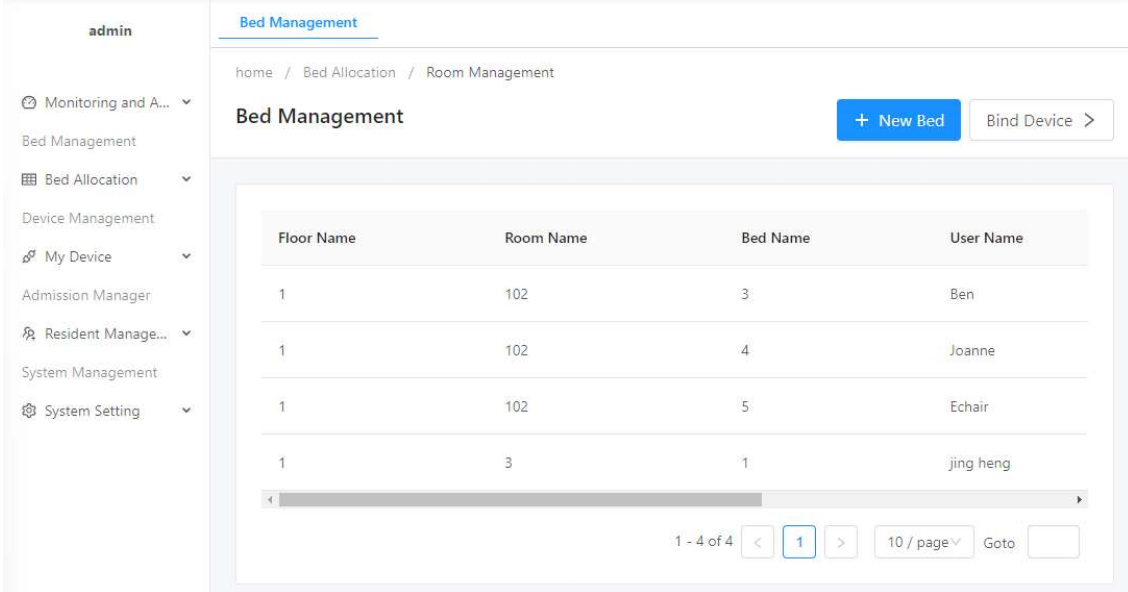
At the bottom of the table area, there is a pagination control showing '1 - 2 of 2' items, a page number '1' in a box, and a '10 / page' dropdown menu. A 'Goto' input field is also present.

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 screenshot shows a modal window titled 'New Room - Count: 0'. It contains 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 an admin dashboard. The left sidebar contains a menu with 'Bed Allocation' expanded and 'Bed Management' selected. The main content area has a breadcrumb trail 'home / Bed Allocation / Room Management' and a '+ New Bed' button. Below this 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 'Goto' field.

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. It has a title bar 'New Bed - Count: 0' with a close button. Below the title bar is a 'Select Room' dropdown menu. A '+ Add Bed' button is located below the dropdown. At the bottom of the modal, there is a 'Max Count: 10' label and 'Save' and 'Close' buttons.

# 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.



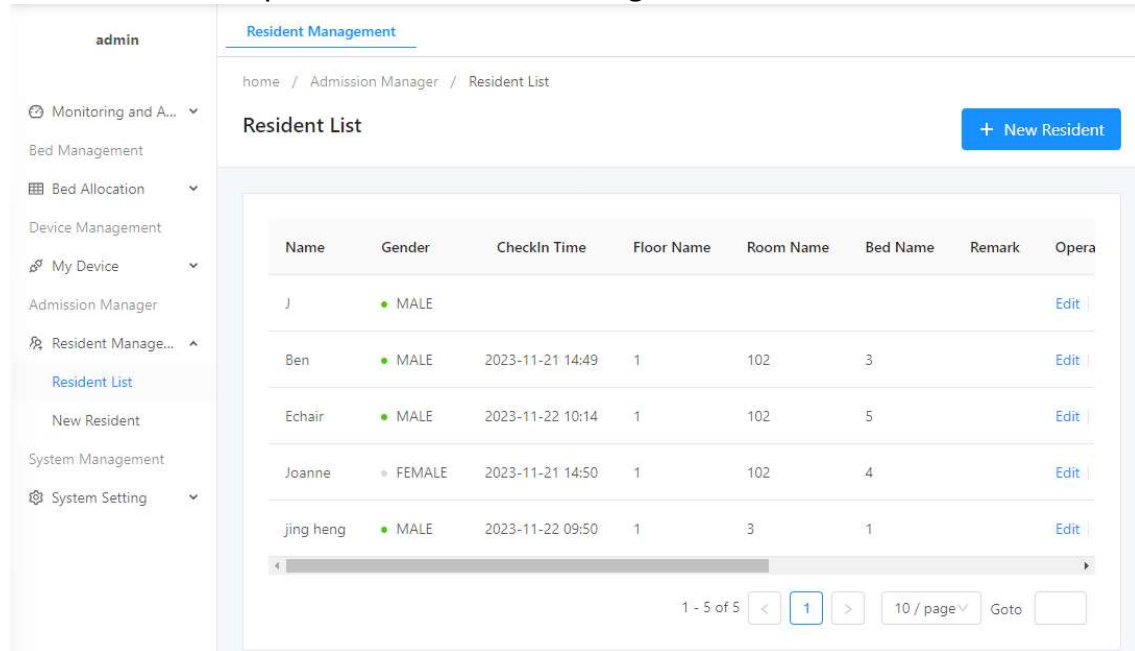


# Admission Manager

## Resident Management

### Resident List

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



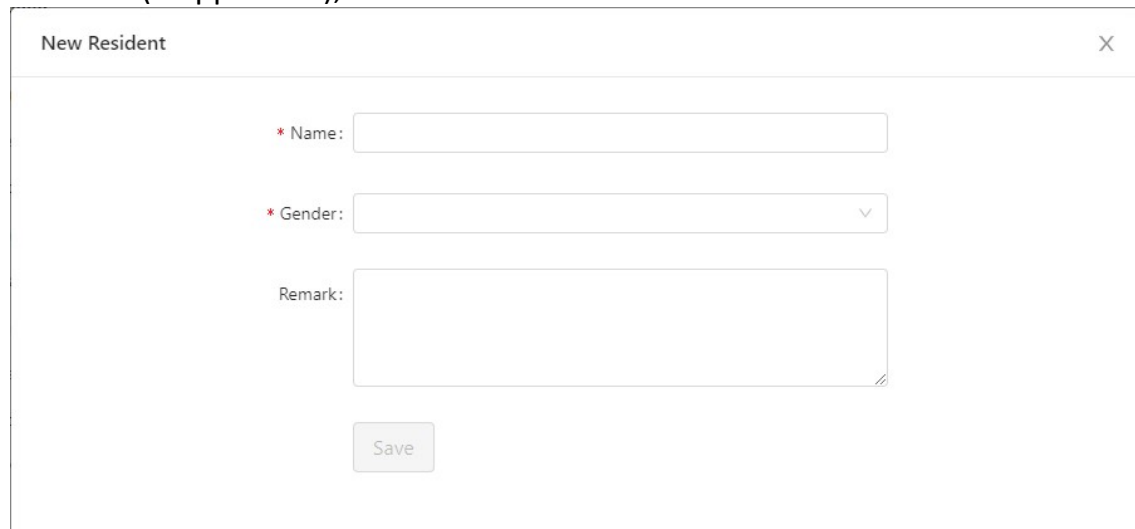
The screenshot shows the 'Resident List' page. On the left is a sidebar with a menu where 'Resident List' is selected. The main content area has a breadcrumb 'home / Admission Manager / Resident List' and a '+ New Resident' button. Below is a table with columns: Name, Gender, CheckIn Time, Floor Name, Room Name, Bed Name, Remark, and Opera. The table contains five rows of resident data. At the bottom right of the table area 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						<a href="#">Edit</a>
Ben	MALE	2023-11-21 14:49	1	102	3		<a href="#">Edit</a>
Echair	MALE	2023-11-22 10:14	1	102	5		<a href="#">Edit</a>
Joanne	FEMALE	2023-11-21 14:50	1	102	4		<a href="#">Edit</a>
jing heng	MALE	2023-11-22 09:50	1	3	1		<a href="#">Edit</a>

### New Resident

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

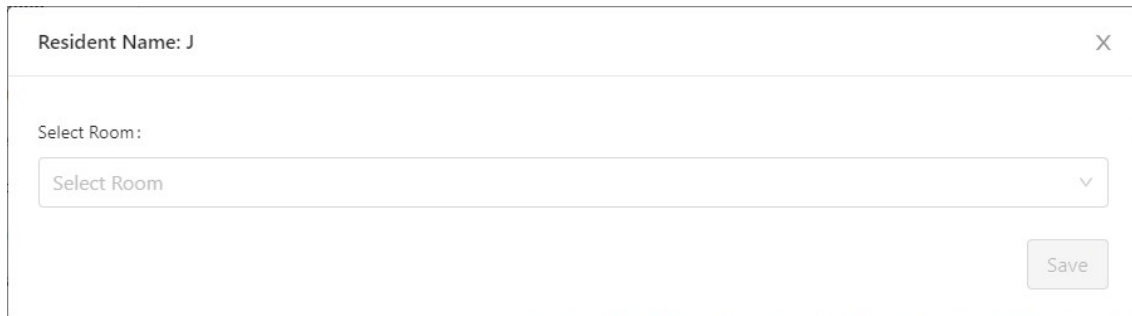
To add a new resident, click on “New Resident”, enter the Name, Gender, Remarks (if applicable), click “Save”.



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 form is a 'Save' button.

## Check In / Out

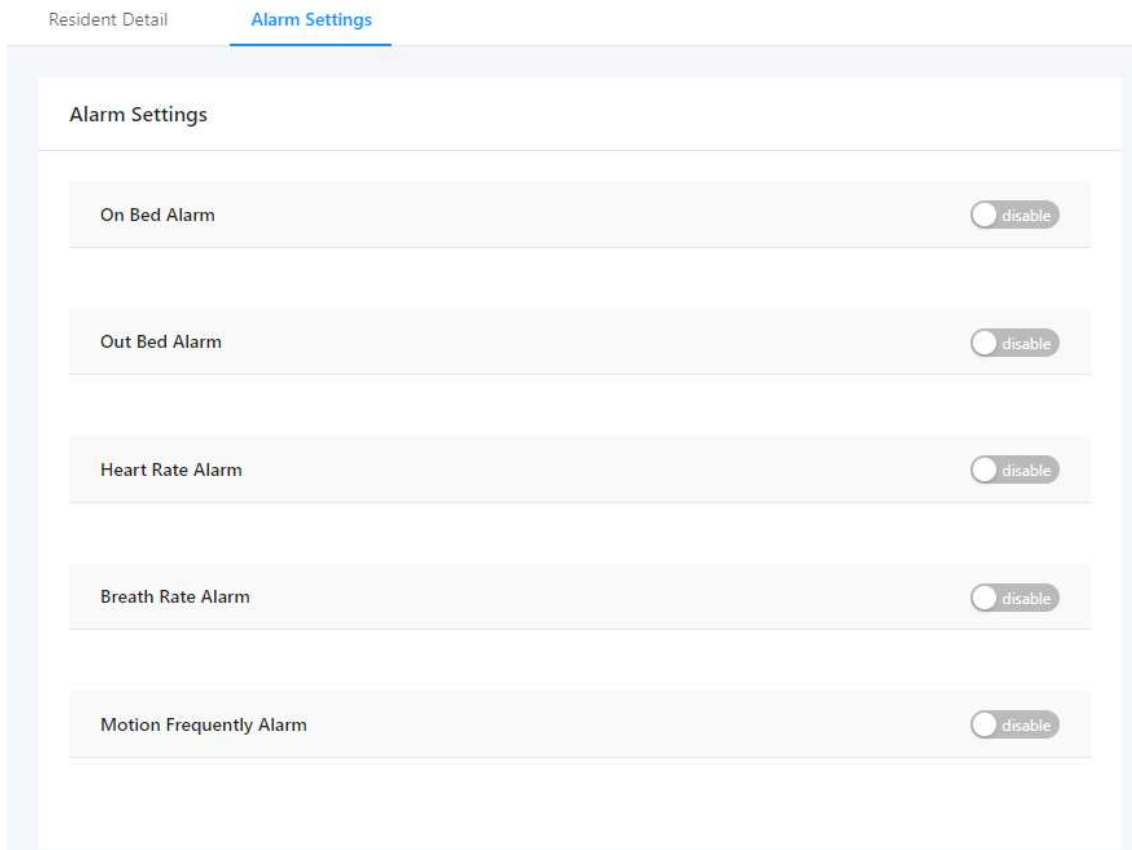
At the side bar, expand the “Resident Management”, select “Resident List”. Scroll to the right, click on “Check In” to select the available beds. For check out, click on “Check Out” and confirm the action.



A screenshot of a web form 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 form.

## 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.



A screenshot of a web interface showing "Resident Detail" and "Alarm Settings" tabs. The "Alarm Settings" tab is active. The settings are as follows:

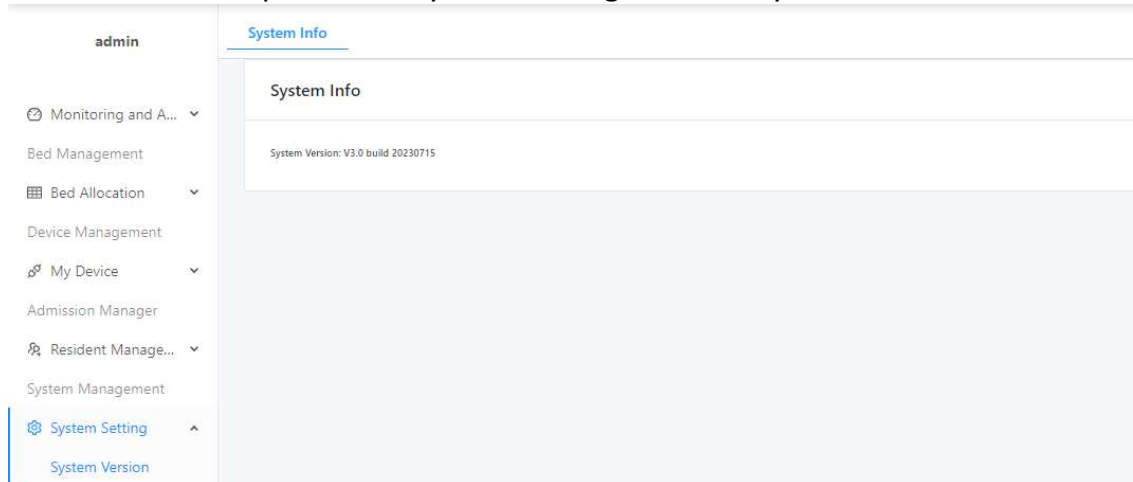
Alert Type	Status
On Bed Alarm	disable
Out Bed Alarm	disable
Heart Rate Alarm	disable
Breath Rate Alarm	disable
Motion Frequently Alarm	disable

# System Management

## System Setting

### System Version

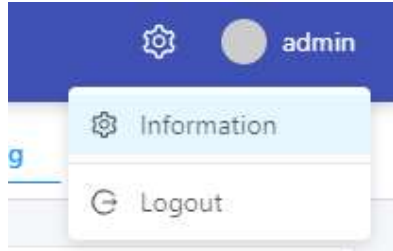
At the side bar, expand the “System Setting”, select “System Version”.



# Profile

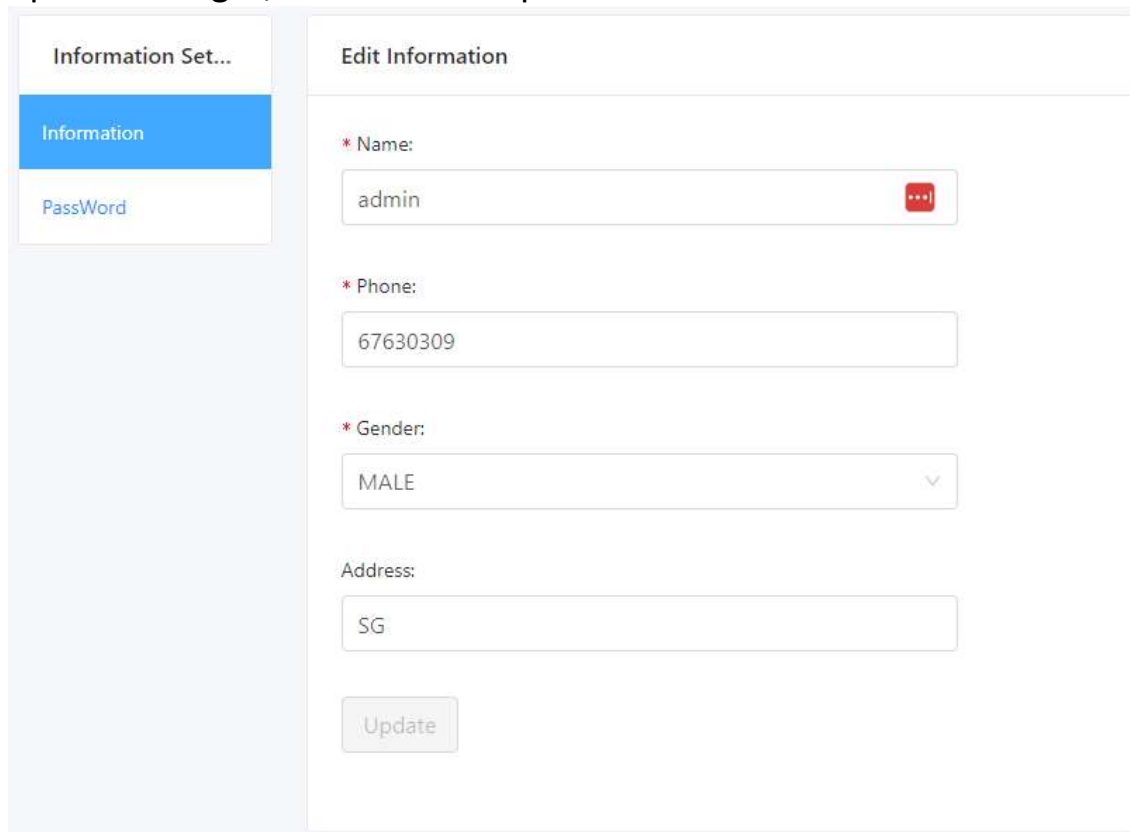
## Information Setting

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.

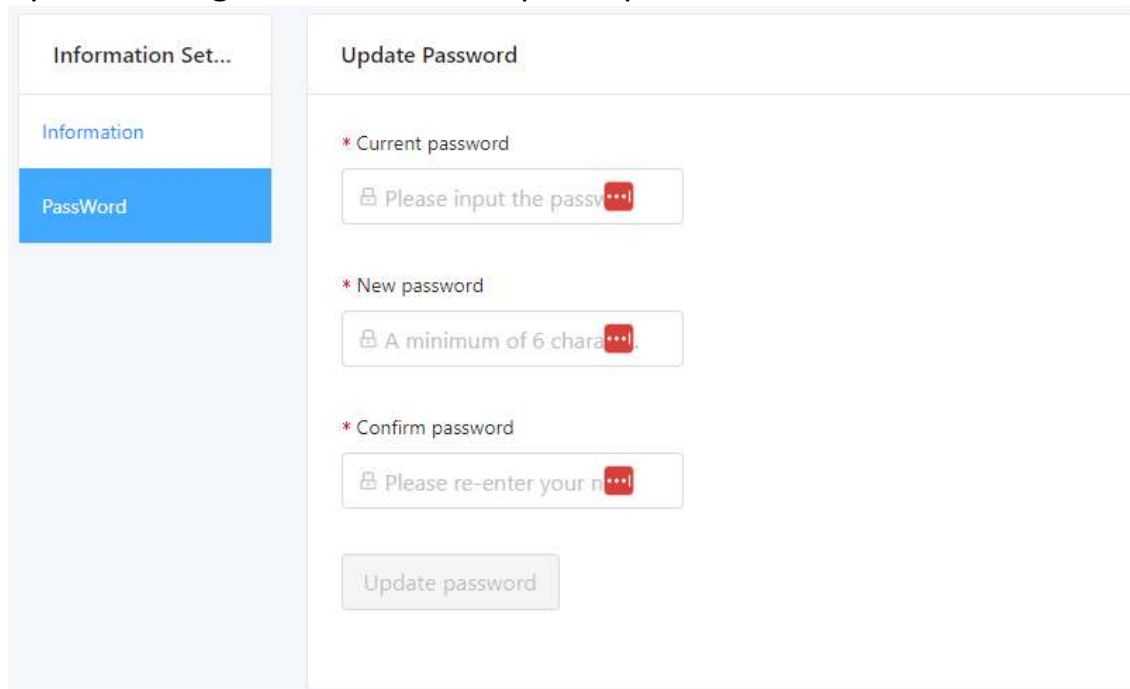
A screenshot of a web form titled "Edit Information". On the left, there is a sidebar with three tabs: "Information Set...", "Information" (which is highlighted in blue), and "PassWord". The main content area contains the following fields:

- \* Name: A text input field containing "admin" and a red "eye" icon to toggle visibility.
- \* Phone: A text input field containing "67630309".
- \* Gender: A dropdown menu with "MALE" selected and a downward arrow.
- Address: A text input field containing "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”.

