

SMART APARTMENT SECURITY SYSTEM



# SafeNet

## USER MANUAL

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# **1. System Overview**

## **1.1 Introduction**

SAFENET is a smart apartment security system which secures the interior spaces and entry points of an apartment by notifying house owners and security officer of the apartment through a mobile application. SAFENET provides the latest in security protection technology today and has been designed to provide you with the greatest possible flexibility and convenience. This system provides three forms of protection: burglary, fire and emergency.

## **1.2 System Basics**

### **Burglary protection**

There are two modes for burglary protection: Home, Away

Away : Arms all interior sensors. When an intrusion is identified in Away mode, security system will notify the owners and an alarm will be activated. Motion sensors are used for identified unauthorized entries.

Home : Disarm all interior sensors. Users will not get any notification about intrusions when in Home mode.

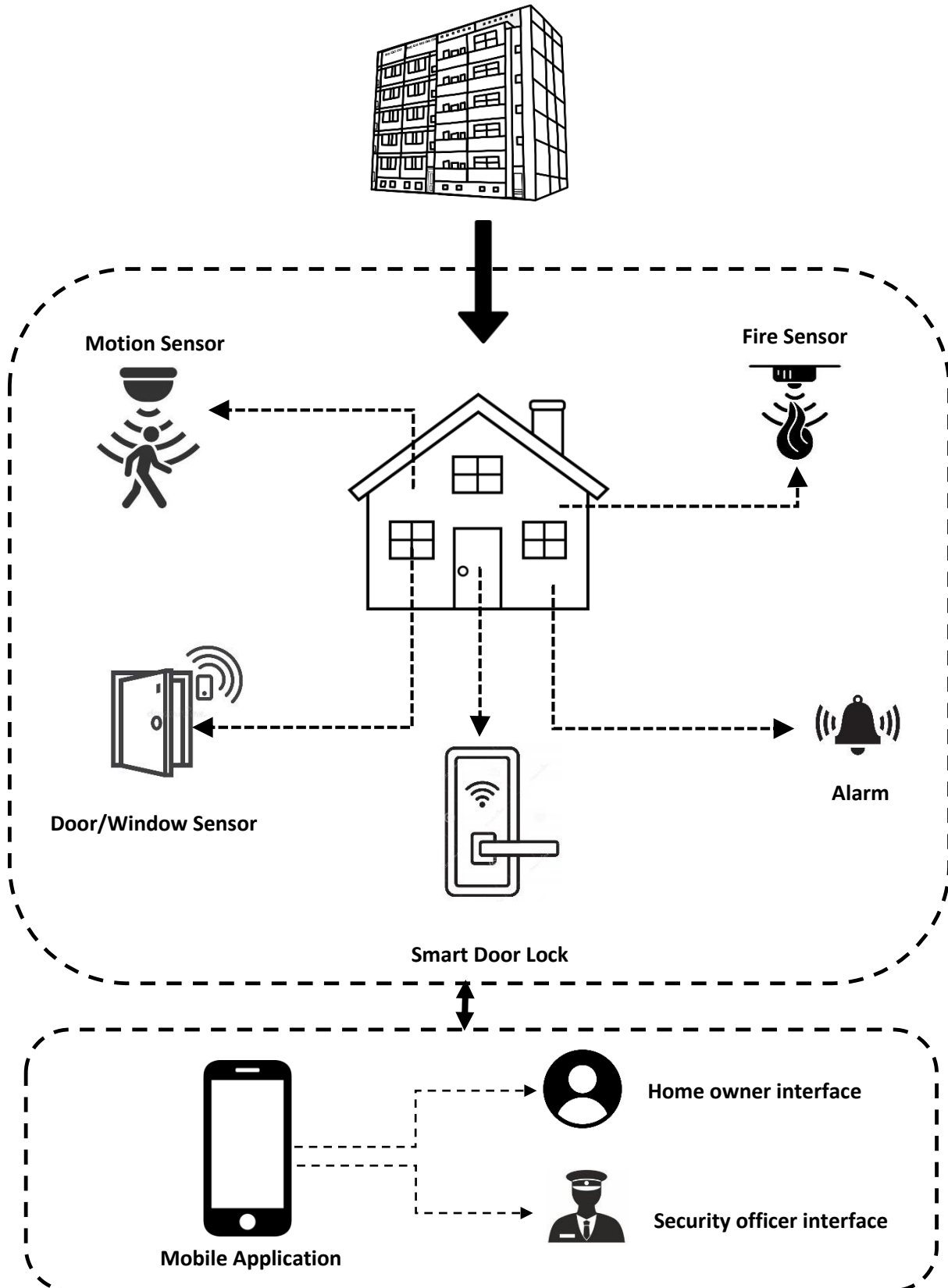
### **Fire Protection**

Fire protection is also activated in away mode. When user is away from home and fire is identified it will notify the owners.

### **Smart Door Lock**

Smart door lock consists of a RFID card reader and a keypad to enter the password. When house owners enter the house they have to enter the pin and if it validates will have access to the house.

## 2. Identification of the product



## **3. Mobile Application**

### **3.1 Introduction**

SAFENET Mobile Application provides an easy way for users to get connected with the security system. The app is designed for house owners as well as for security officers at the apartment.

Each House owner will be able to:

- Switch between Home and Away mode
- View current status of sensors and front door
- View log of front door access
- View notifications from security system
- Contact emergency contacts
- Change the status of sensors

Each Security officer will be able to:

- View House owners' details
- View Activation details about sensors
- View front doors of houses he has access to

### **3.2 Installation details**

- Download the APK file sent your E-mail by the manufacturers.
- Open your Android device's file explorer app.
- Locate your APK file in your file explorer app and select it.
- The APK installer menu will appear—tap Install. On Samsung devices, this may appear as a pop-up.
- Allow time for the app to install.
- Tap Done or Open once the installation is complete.

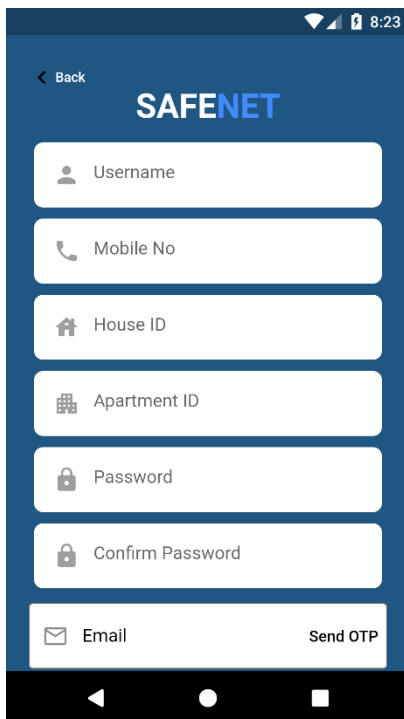
If your device doesn't allow installing apps from unknown resources.

- Open the Settings app on your Android device.
- In the Settings menu, tap Apps.
- Tap Special app access (or Advanced > Special app access).
- Tap Install unknown apps.
- Select an app to use to install an APK file—your browser and file management apps are the best option here.
- Tap the Allow from this source slider to allow APK files to be installed via that app.

### 3.3 Home owner interface



- Once the App is installed and opened, it will direct to this Login window.
- At the first time user need to get register with SAFENET.
- So, Tap 'Register Here' to get registered



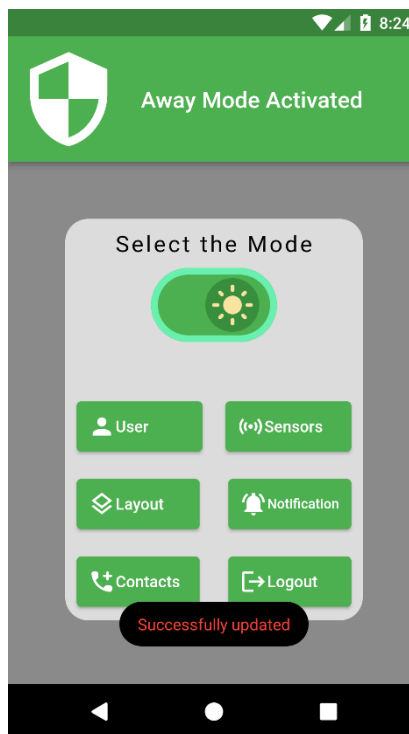
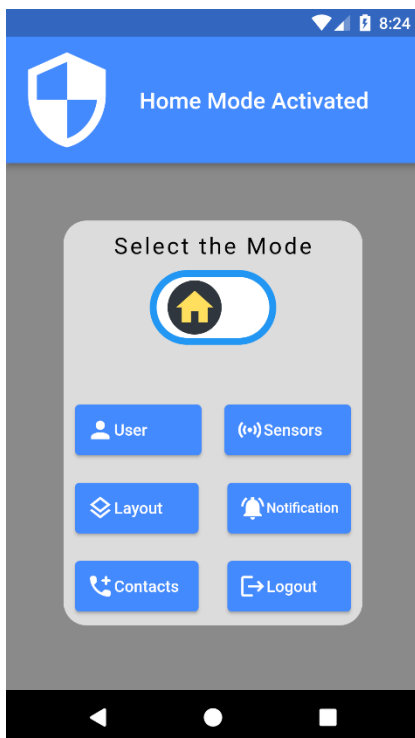
- Fill the above fields accurately and Click 'Register' to get registered.
- For username choose a username of your choice.
- For House ID and Apartment ID use the IDs given by manufacturers.
- We recommend you to use a strong password which will contain letters, numbers and special characters.
- Fill the Email field and tap on 'Send OTP' text.
- OTP will be sent to your email and insert that OTP for OTP field.
- Finally, Tap to 'Register' button.

## Login



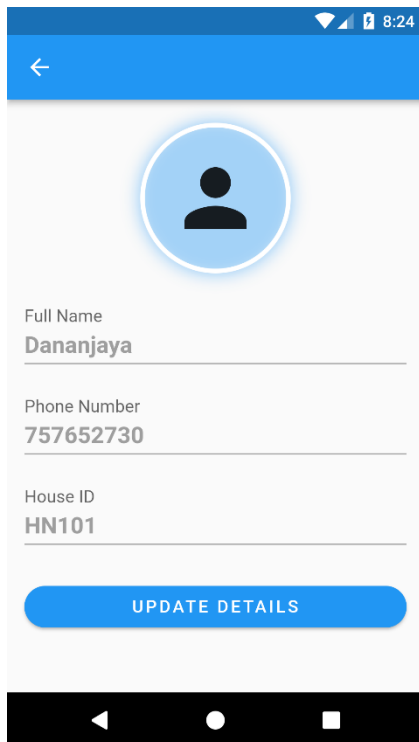
- Use the Email used and password created in registration for Login.
- Security officers should tap on 'Security Officer' button to open the Login page of Security officers.

## Selecting Mode



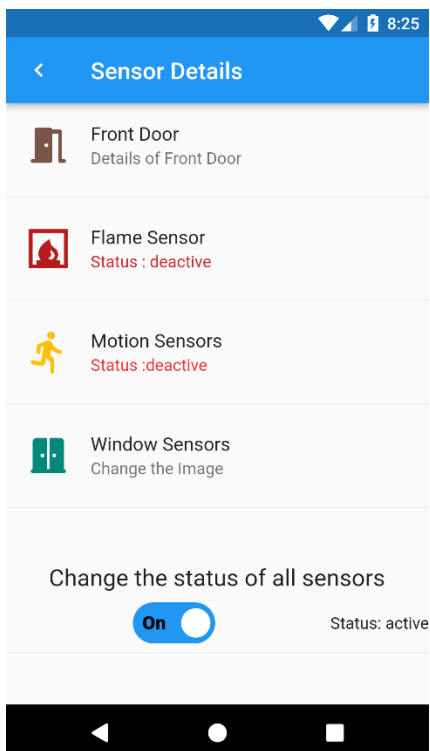
- This is the Home interface.
- Once user go away from house he has to switch to Away mode by sliding the 'Select the Mode' and switch to Home mode before entering to the house.
- Blue colour scheme will be in Home mode and Green colour scheme will be in Away mode.
- Security System activated in Away mode.

## User Details



- Users can change the details and Update details in their profile.

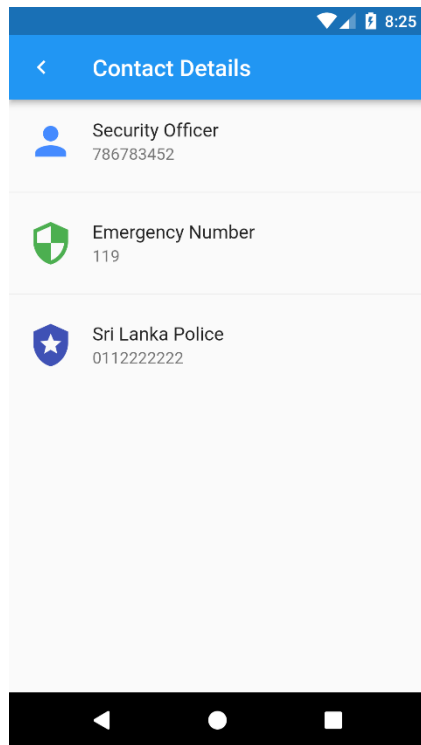
## Sensors



- Users can view the details of Front Door and Status of sensors from this window.
- Status of the sensor is active when it is triggered by any action inside house.
- When the sensor is active and user want to deactivate it back he can go to 'Change the status of all sensors' and turn it OFF.

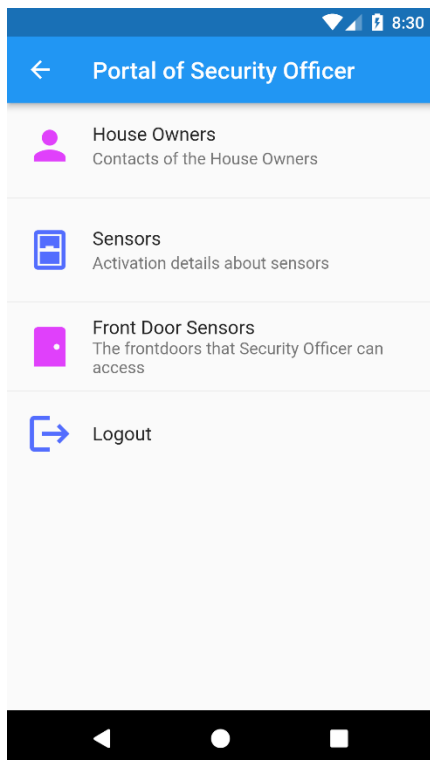


## Contact Details

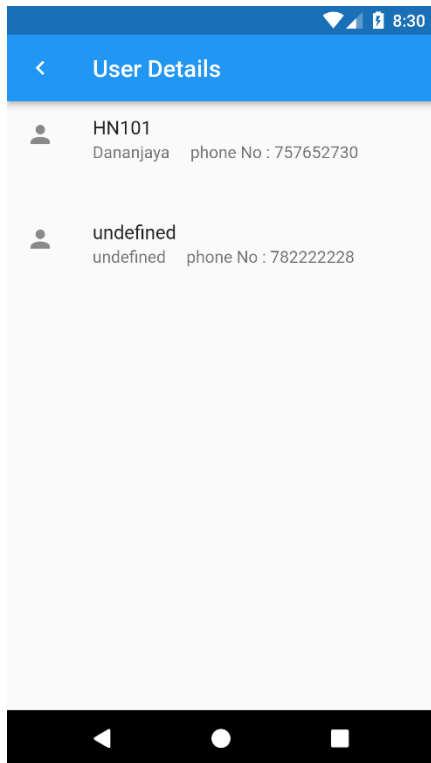


- Users can contact the Emergency contacts from 'Contact Details' in case of an emergency.

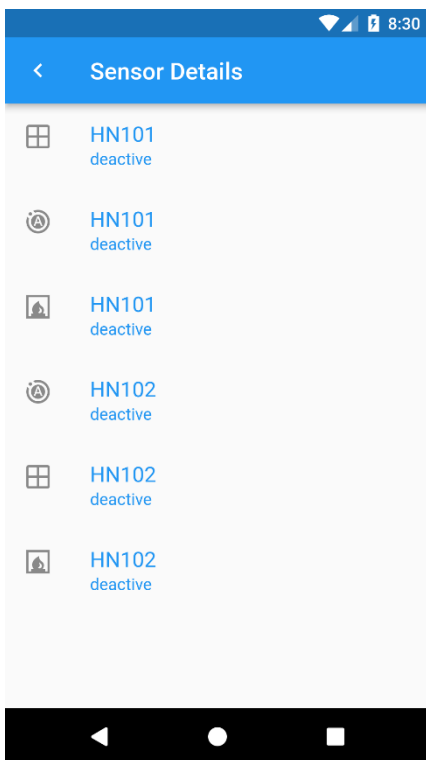
## 3.4 Security Officer Interface



- This is the Home Page of Security officer.
- Security officer can view the contacts of House owners, View activated sensors, View the front doors he has access to.



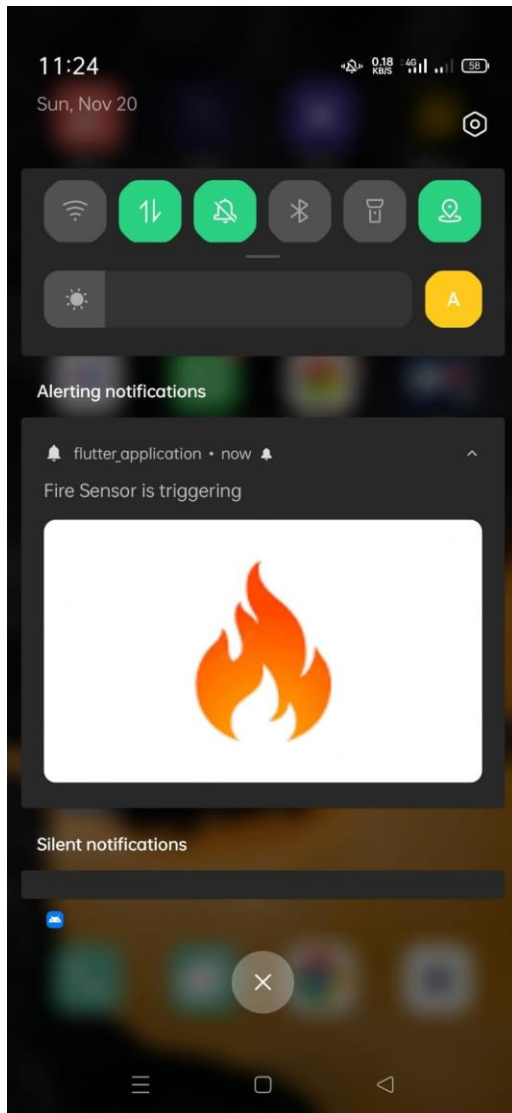
- From 'User Details' Security Officer can see the House number (As 'HN101' on the top) and the owner's name and mobile number under that.



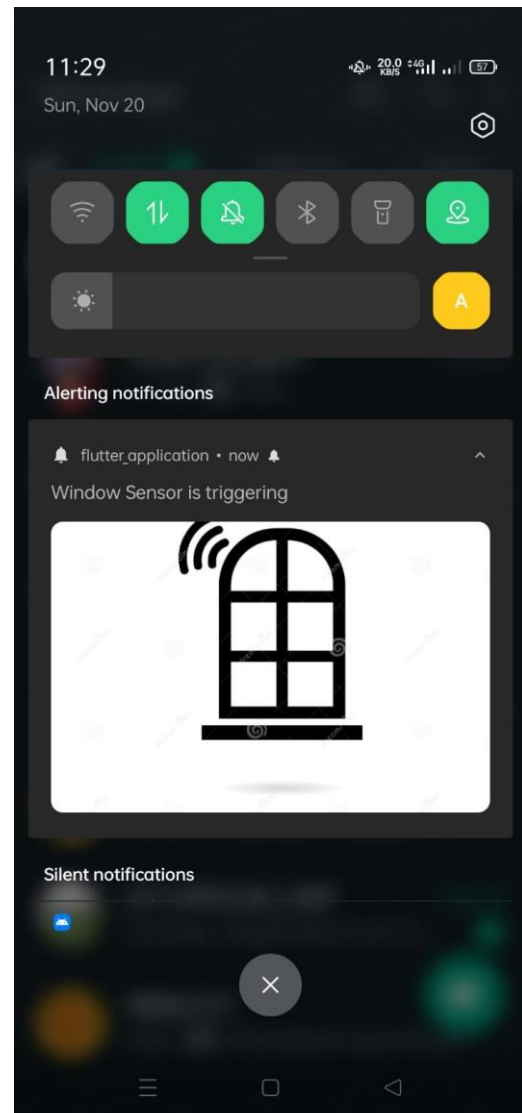
- From 'Sensor Details' Security Officer can see the Sensors which are active in red colour with the house number. So, that security officer can contact the owners accordingly.

## 3.11 Notification System

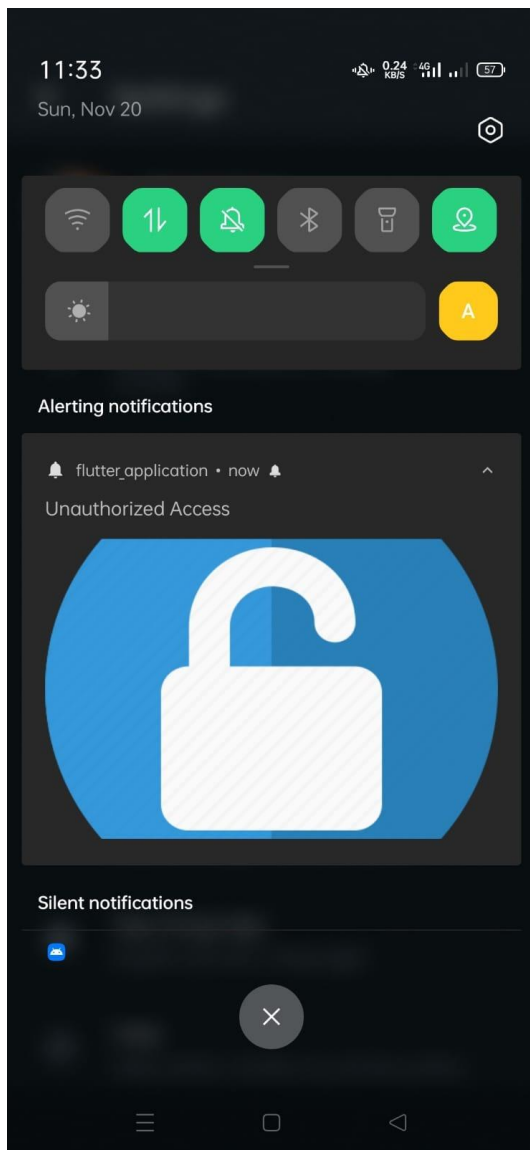
### Sensor activation notifications



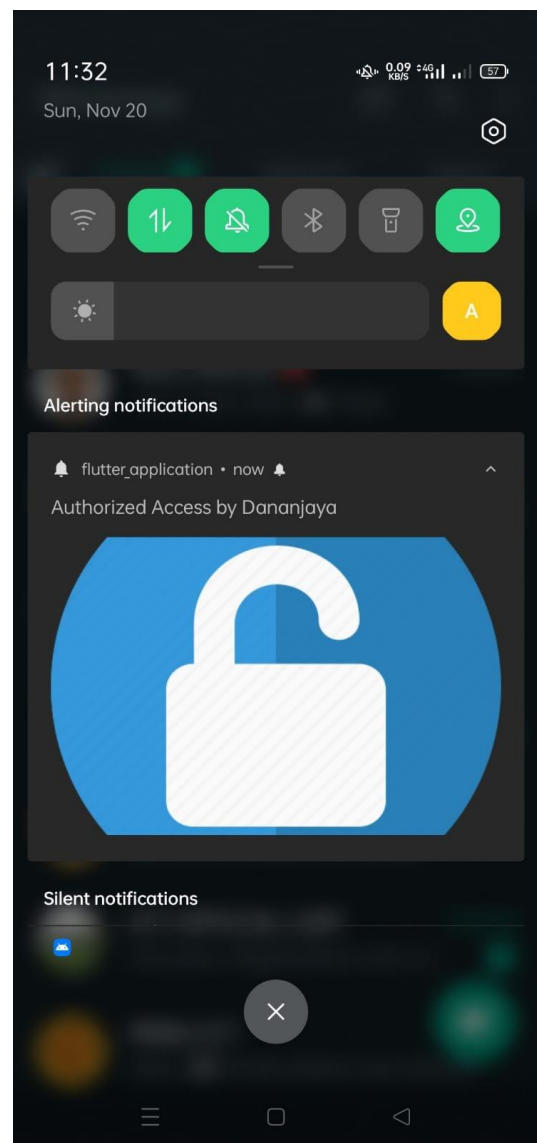
When the fire sensor is triggered ( Fire has been identified inside the house) in away mode this notification is displayed.



When the door/window sensor is triggered (Unauthorized intrusion has been identified inside the house) in away mode this notification is displayed.



When password at front door is incorrect or invalid card is read by rfid card reader this notification displayed.



When password at front door is correct or valid card is read by rfid card reader this notification displayed. The user who access the door also mentioned in the notification.

## 4. Smart Door Lock

Smart Door Lock in the security system is for added security to the front door at your home. It gives access only to authorized people. You need to create a password for the door lock.



### 4.1 Keypad

Keypad can be used to enter the password in case RFID card reader failed to identify.



When user use the RFID card to access the front door, user should touch the card on reader while pressing '\*'key on keypad



When user use the password to access the front door, should press '#' key to enter the password.

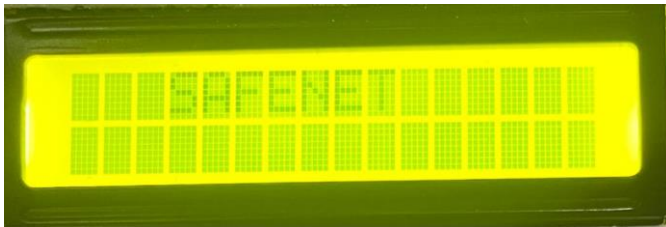
## 4.2 RFID card reader



You will be given a card by the manufacturers. To access the door lock, users should slightly touch the card over the card reader

## 4.3 Display

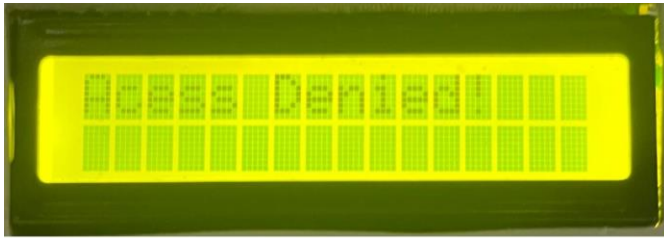
The LCD Display is used to display messages to the user. When the front door is powered up it will show 'SAFENET' in the display.



If the Card Reader identify the user through the Card or is the password matches. It will display 'Access Granted!'.



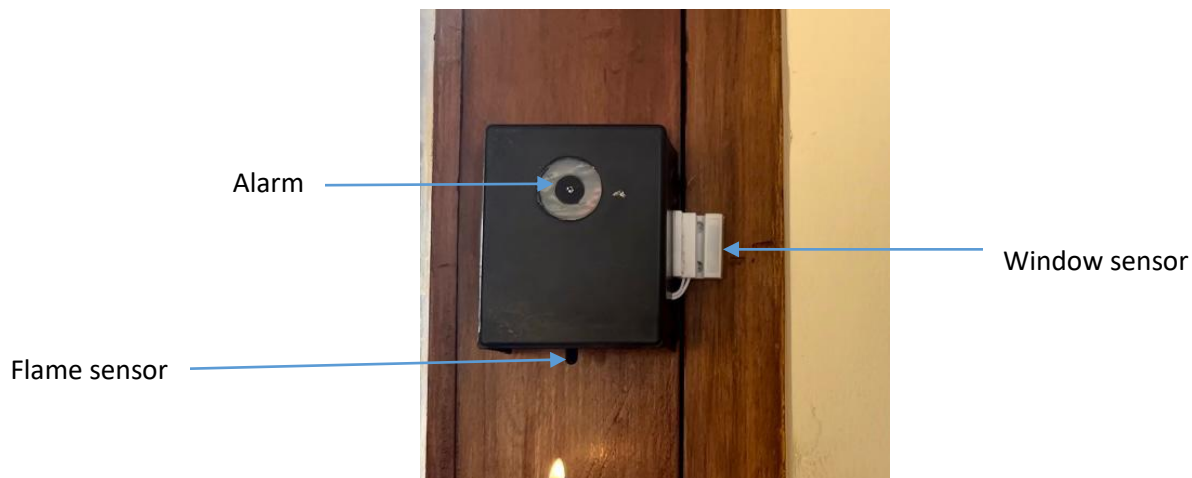
If the card is invalid or password fails to match it will display 'Access denied!'



#### 4.4 How to use Smart Door Lock

1. Touch the card given by manufacturers over the Card reader while pressing the '\*' key on keypad.
2. If the card matches, it will display 'Access Granted! Welcome!' on the display.
3. Then the lock will be unlocked for 1 minute and owner can open the door.
4. If the card doesn't match, type the password you used to login the SAFENET app on the keypad and press '#' to enter.
5. If the password matches lock will be unlocked for 1 minute.

### 5. Sensor module



### 6. Alarm Activation

Once a sensor is triggered, alarm will be activated automatically. User can turn off the alarm using Mobile Application if needed.

## 7. Power Supply

### Smart Door lock

Four 3.7V Lithium ion batteries are used to power the door lock.



### Sensor modules

Two 3.7V Lithium ion batteries are used to power the door lock.

## 8. Special Instructions

**\*\*Devices are connected through Wi-Fi. Therefore, it is recommended to use an uninterrupted power supply(UPS) for the Wi-Fi Router in the house.**