



# CS350 Safehome Project

## Independent testing of Safehome

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# I. Overview

## 1. Introduction

This document describes the design model of SafeHome system proposed in the previous report. Since the design phase of the product is directly connected to the implementation phase, we focus on the well-formed and concrete design of the system. Architectural structure, class diagram, CRC cards, state diagrams, and sequence diagrams are presented to portray the design of the system.

## 2. Goal

- 1) Completely follow the requirement and the analysis model.
- 2) Achieve low coupling, high cohesion, and modularity.
- 3) Pursue testability, integrity, efficiency, maintainability, and reliability.
- 4) Minimize complexity and consider reusability and flexibility.

## 3. Testing results - Team 7

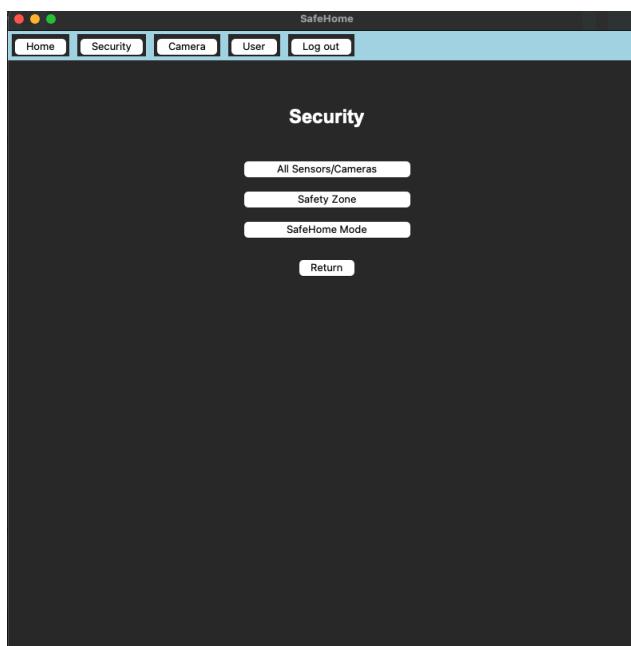
Scenario 1: Safehome mode - duplicate sensors can be added

Author: Geunyeong Cheon

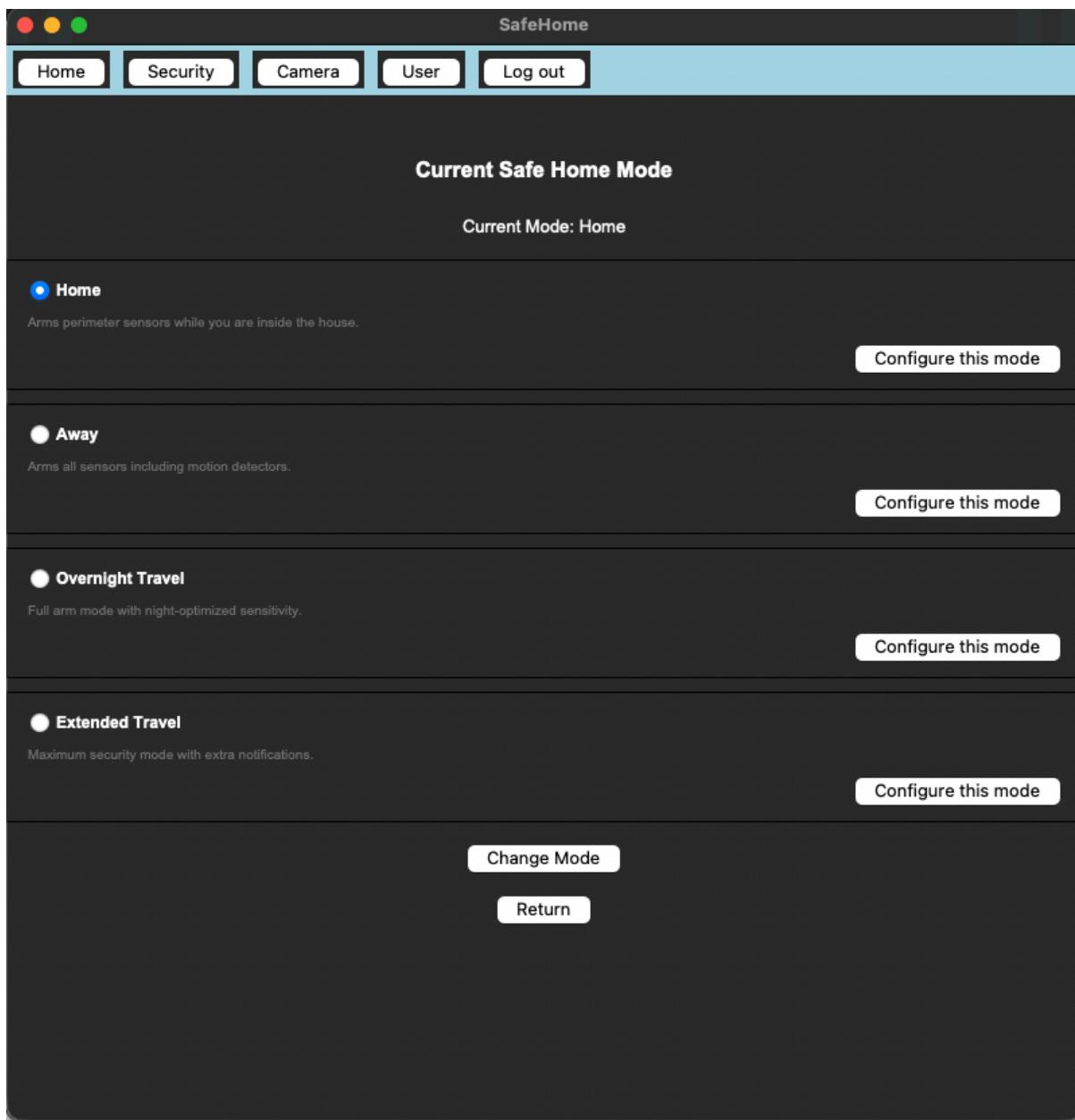
Description: When configuring sensors in Safehome Mode, we can add duplicate sensors

Reproduce Steps:

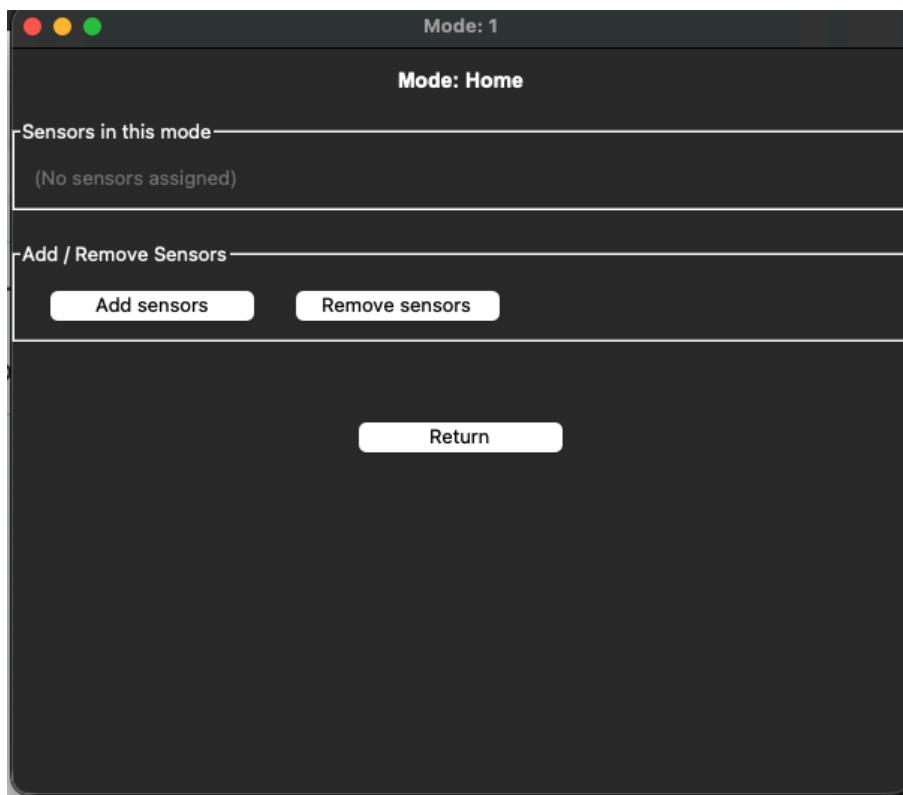
1. Log in through web window
2. Click “Security button” on top
3. Click “SafeHome Mode button”



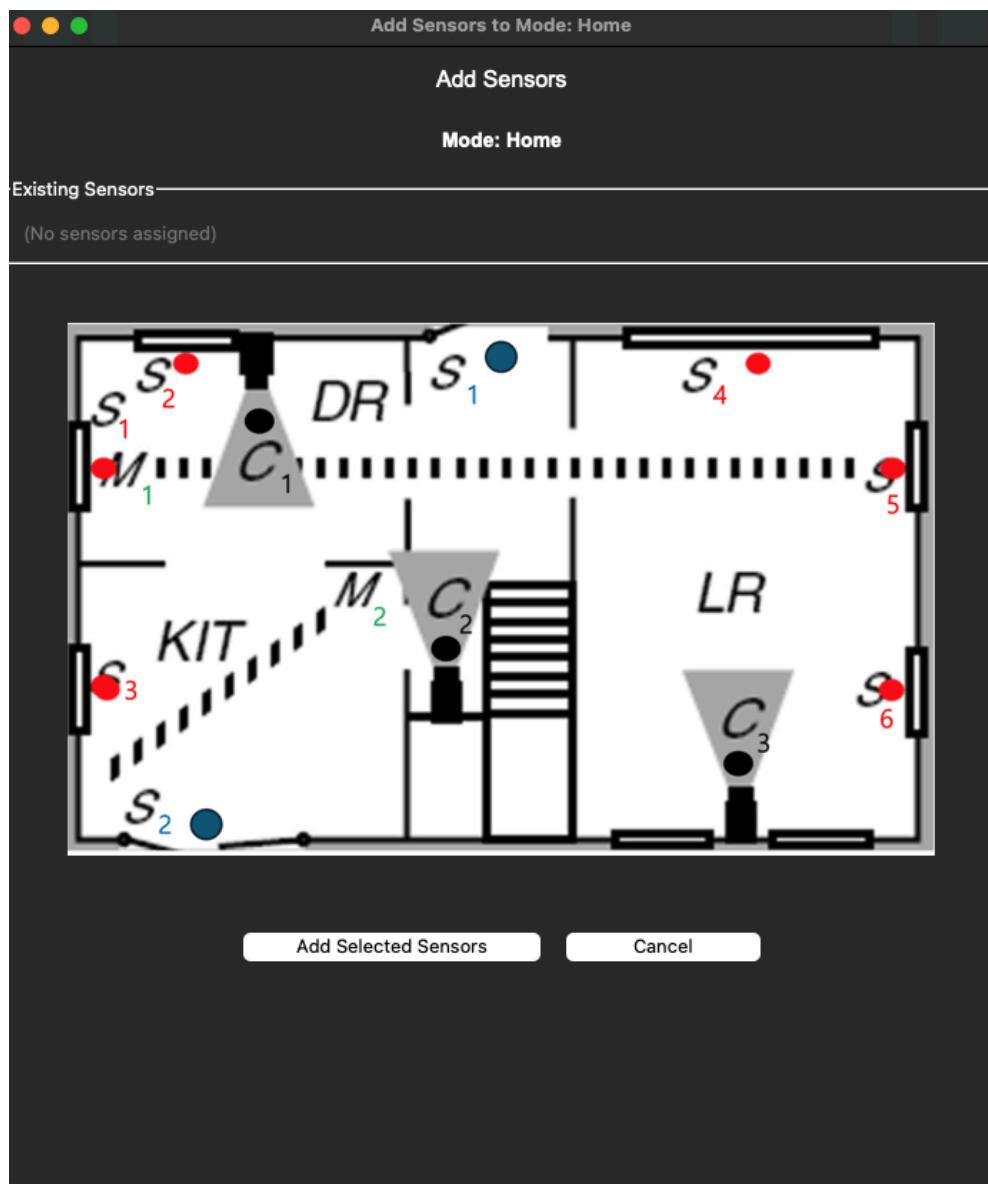
4. Click “configure this mode” in Home mode



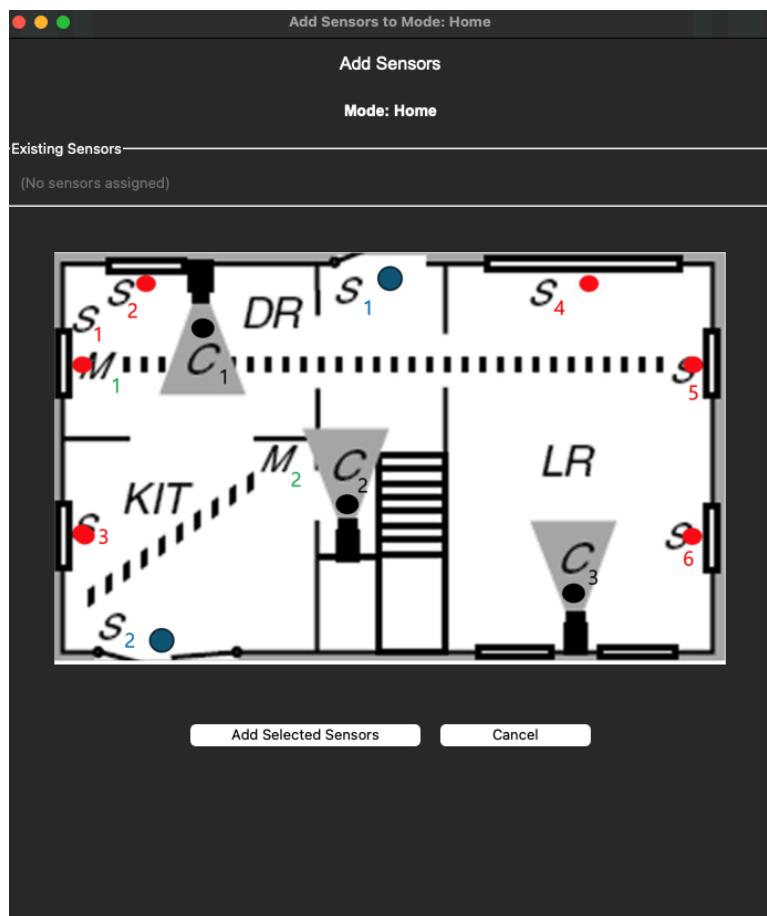
5. Click add sensors



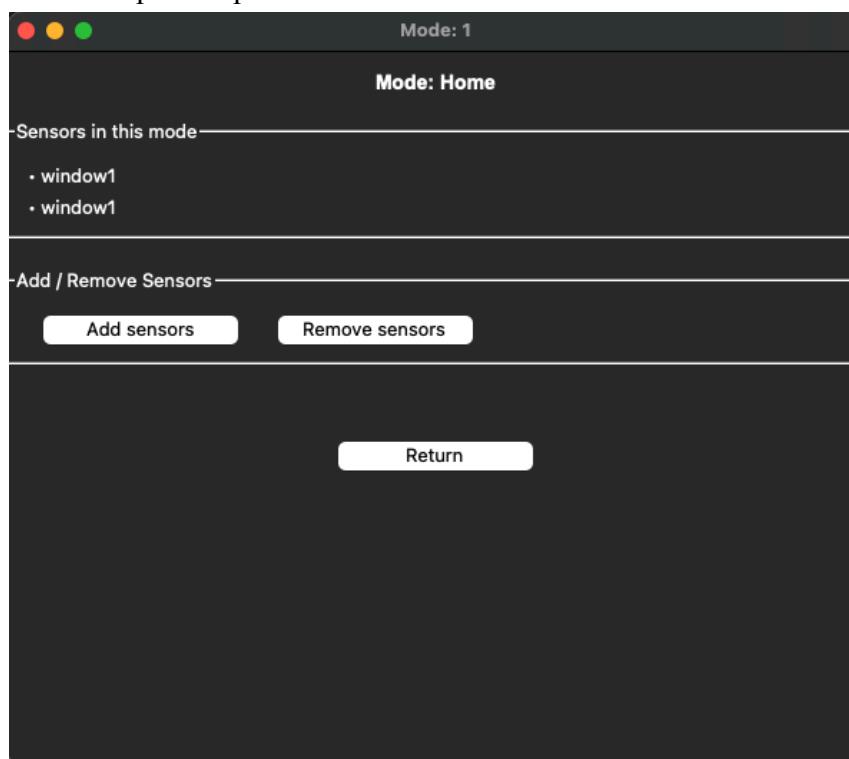
6. Click “1” sensor



7. Click “Add selected Sensors”



8. Repeat step 5 ~ 7



You can see the duplicate sensors are added

## Scenario 2: Installation

Author: Geunyeong Cheon

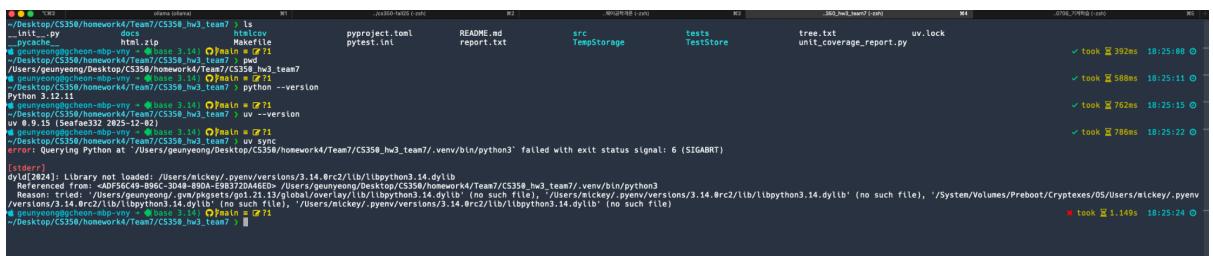
Description: Failed to run `uv sync` in user manual page 5.

Reproduce Steps:

- Under team 7 source code directory, run

```
python3 -m pip install uv
```

- Run `uv sync`



```
[Desktop@CS358_hw3_team7 ~]$ python3 -m pip install uv
[...]
[Desktop@CS358_hw3_team7 ~]$ uv sync
[...]
error: Querying Python at '/Users/geunyeong/Desktop/CS358_hw3_team7/.venv/bin/python3' failed with exit status signal: 6 (SIGABRT)
```

- Check the error message.

How to fix it?

```
rm rf .venv
uv sync
```

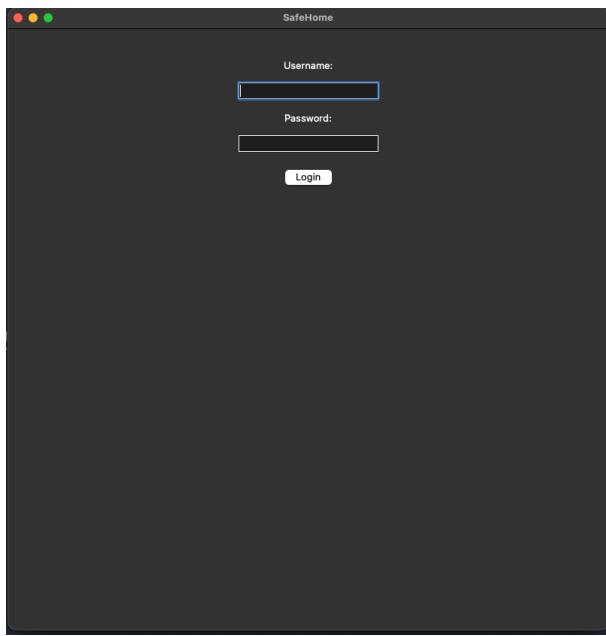
## Scenario 3: Web browser login info missing in user manual

Author: Geunyeong Cheon

Description: In the user manual, there is no guide for valid user name and password

Reproduce Steps:

- Run the program
- Go to “Safehome” window



How to fix it?

Search the user name and password in codebase

- User name: admin
- Password: 123456

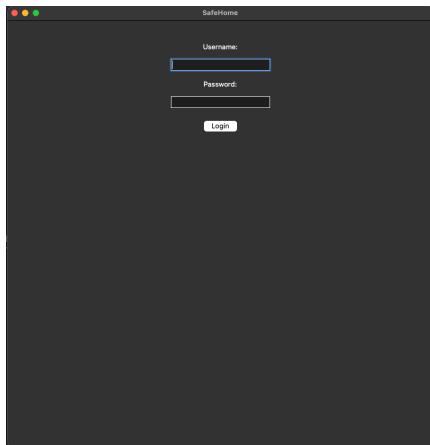
Scenario 4: Web browser login message didn't disappear

Author: Geunyeong Cheon

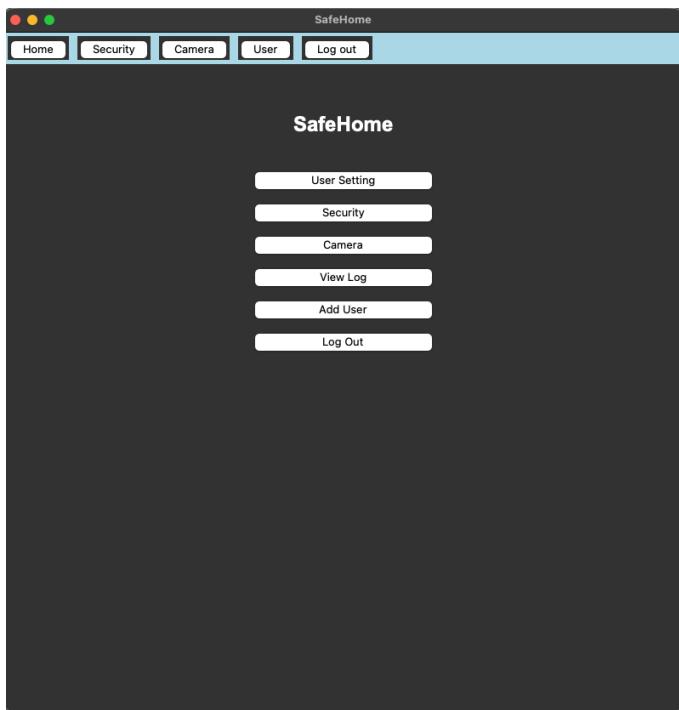
Description: After log out, the web browser page shows “login successful!” message.

Reproduce Steps:

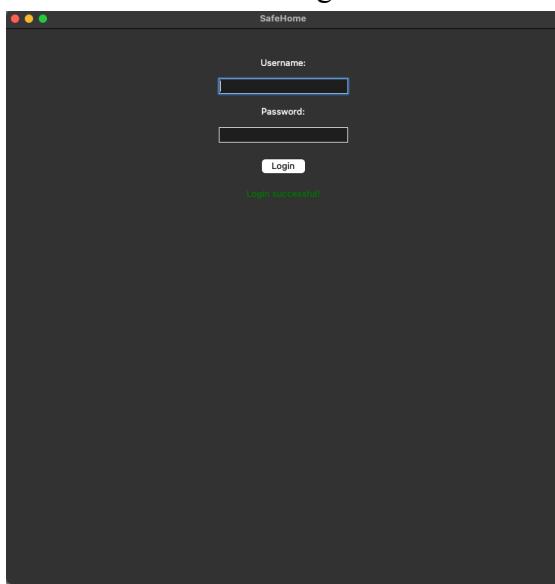
1. Run the program
2. Go to “Safehome” window



3. Log in by typing valid user name and password (admin, 123456)
4. Press “Log Out”



5. You can see “Login successful!” message



Scenario 5: Can log in using invalid password in control panel

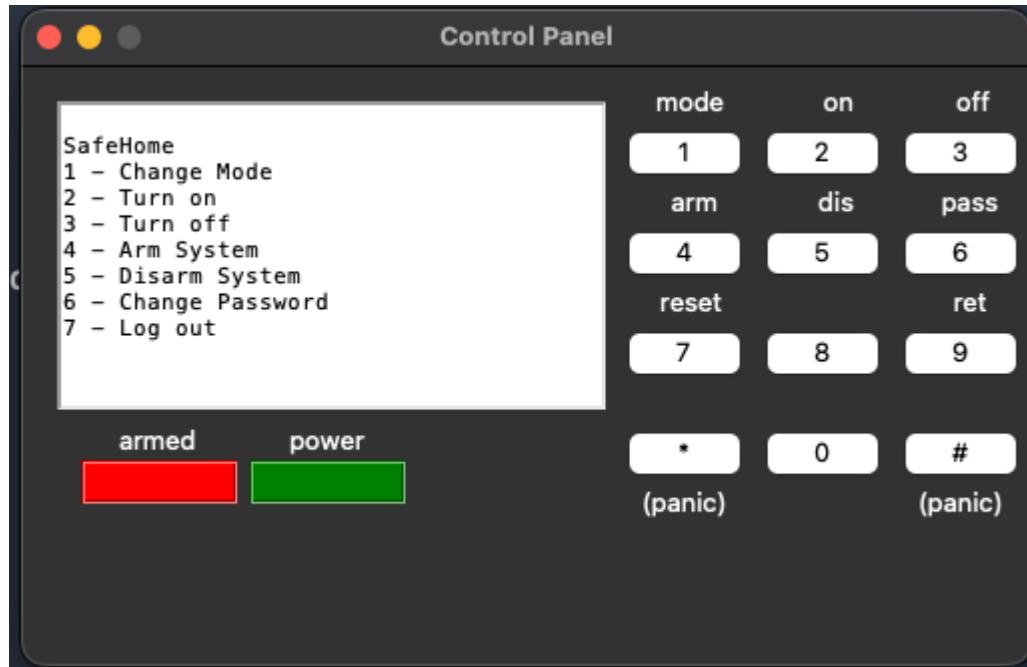
Author: Geunyeong Cheon

Description: I can log in using invalid password, “1255” in control panel

Reproduce Steps:

1. Run the program and go to “Control Panel”
2. Type “1255” (I think any kind of 4 digit numbers are considered as valid)
3. You can see the it’s logged in

This is weird because web browser requires 6 digit numbers as password (123456). Due to this bug, we can't check whether change password is working well or not



Scenario 6: Control panel is not changed after log in through web browser

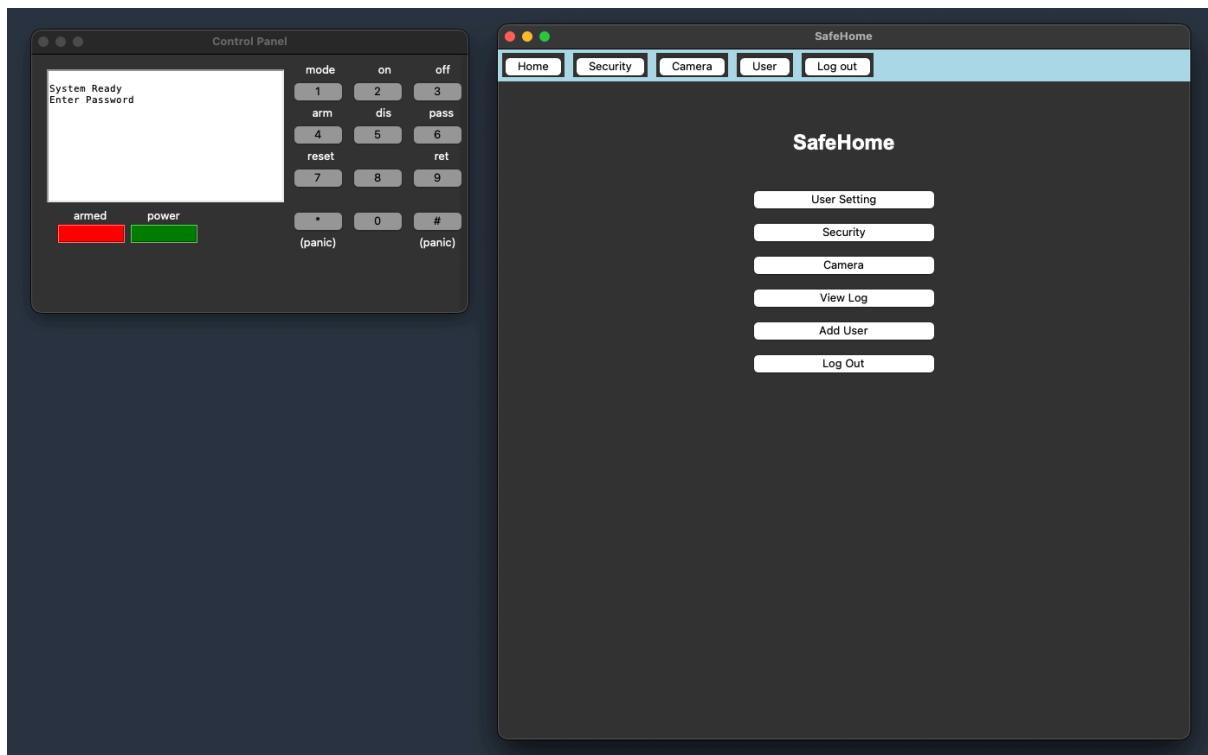
Author: Geunyeong Cheon

Description: When I successfully log in through a web browser, the control panel UI is not updated.

Note: I'm not sure if this is the intended behavior.

Reproduce Steps:

1. Log in through web browser
2. Check the control panel window. It requires a password in the UI.



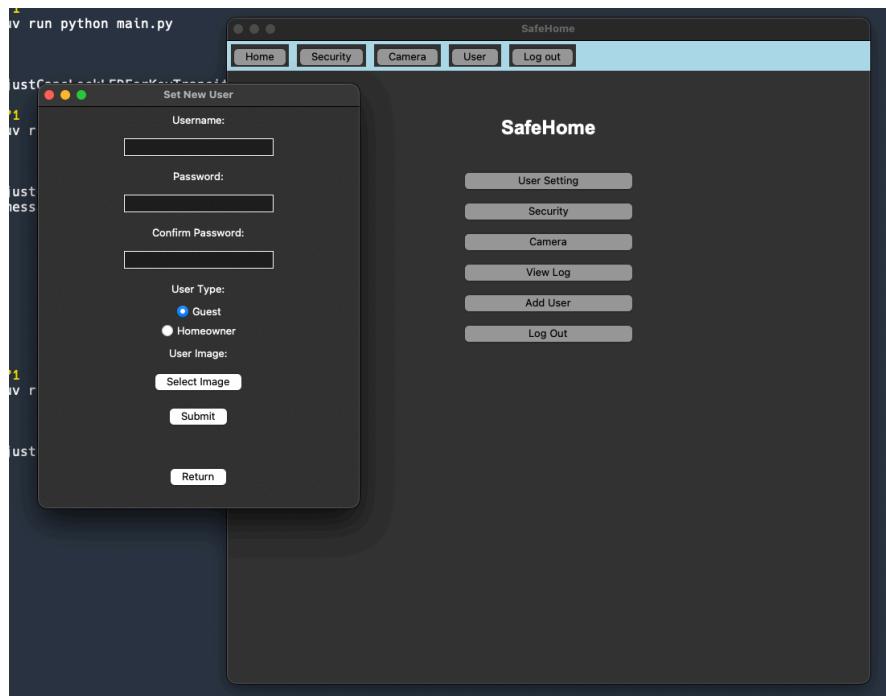
## Scenario 7: Can not login with added user

Author: Geunyeong Cheon

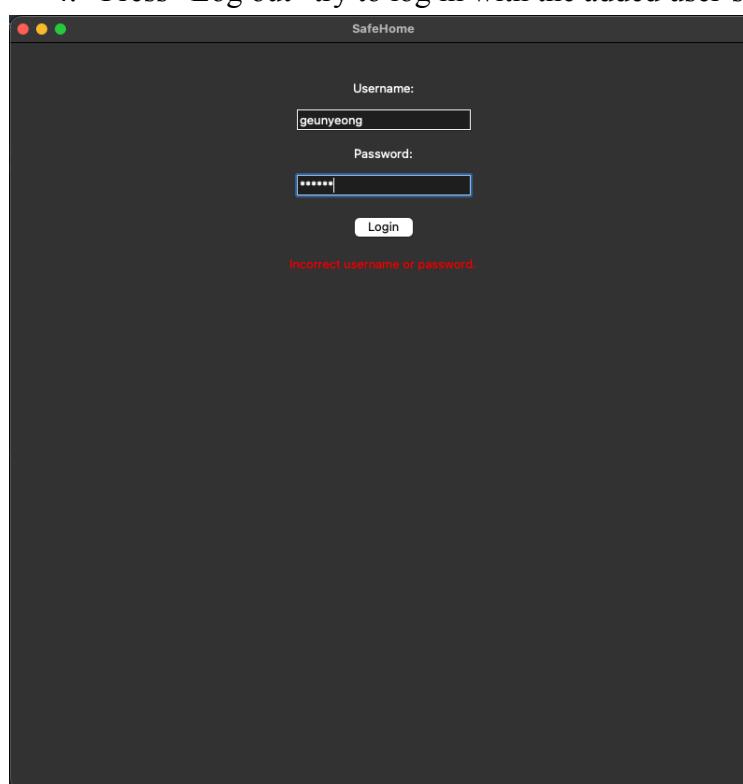
Description: After adding user, I can not log in with added user credential

Reproduce Steps:

1. Log in through web browser
2. Press “add user”



3. In the “Set New User” window, type below and press “Submit”
  - Username: geunyeong
  - Password: 123456
  - Confirm Password: 123456
  - User type: Click “Homeowner”
  - User image: select any image
4. Press “Log out” try to log in with the added user’s credential. It failed.



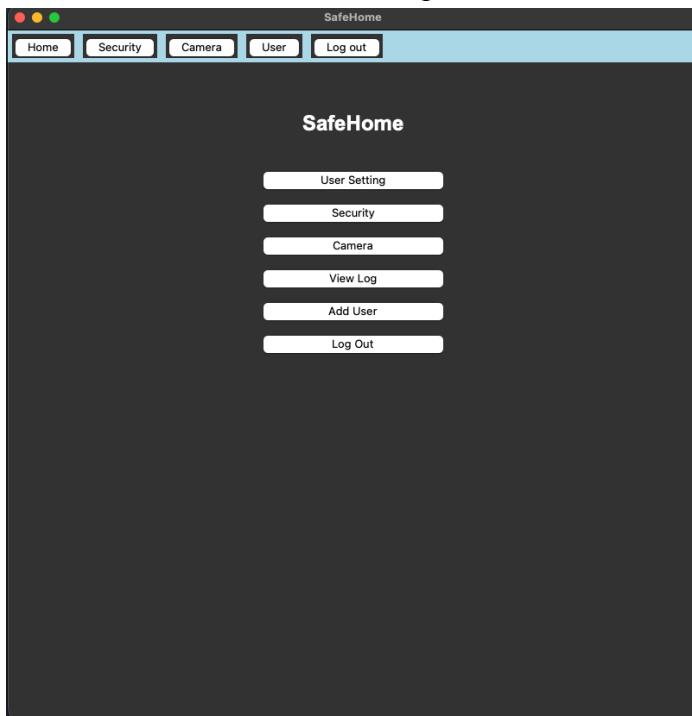
## Scenario 8: Can't delete added user (web browser)

Author: Geunyeong Cheon

Description: After adding user, can't delete account

Reproduce Steps:

1. Log in through web page
2. Add user by following steps 3 in Scenario 7
3. Press "User" tab in the top center



4. Press "Delete user". Nothing happened

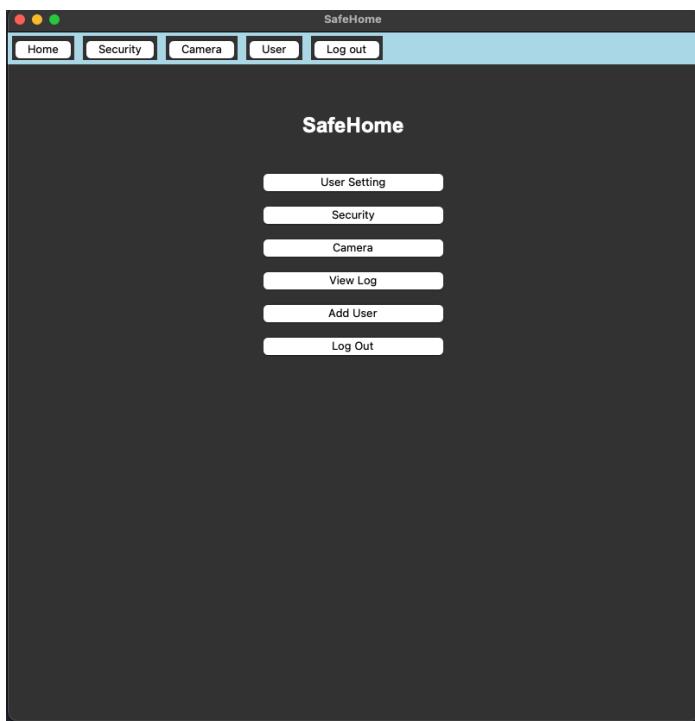
## Scenario 9: Change password not working (web browser)

Author: Geunyeong Cheon

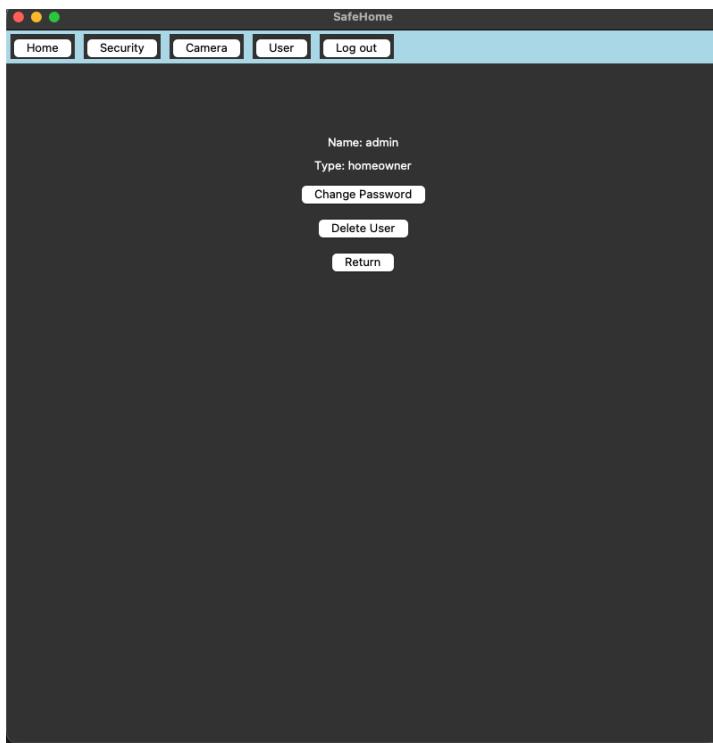
Description: Can not change password.

Reproduce Steps:

1. Log in through web page
2. Press "User" tab in the top center



5. Press “Change Password”. Nothing happened



## Scenario 10: Control panel arm not working

Author: Geunyeong

Description: The control panel function “arm” seems not working.

Reproduce Steps:

1. Log in through control panel
2. Press “4”
3. Nothing happened. We don't know if it's working or not.

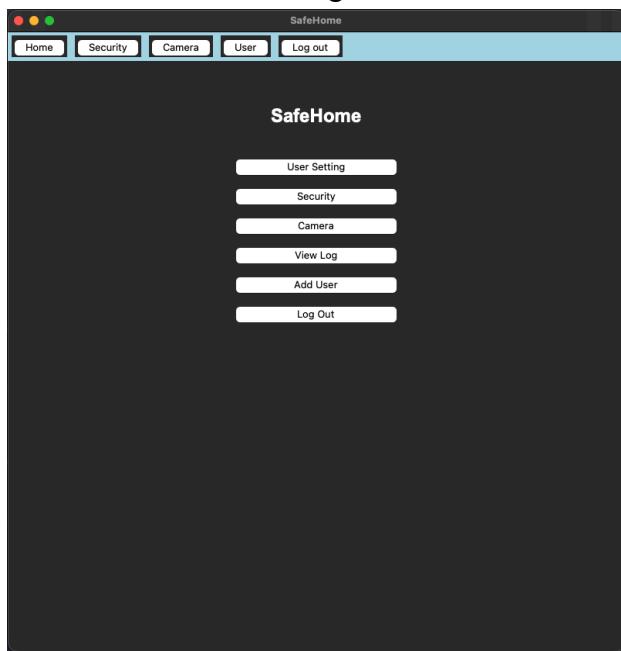
## Scenario 10: Web browser change password not working

Author: Geunyeong

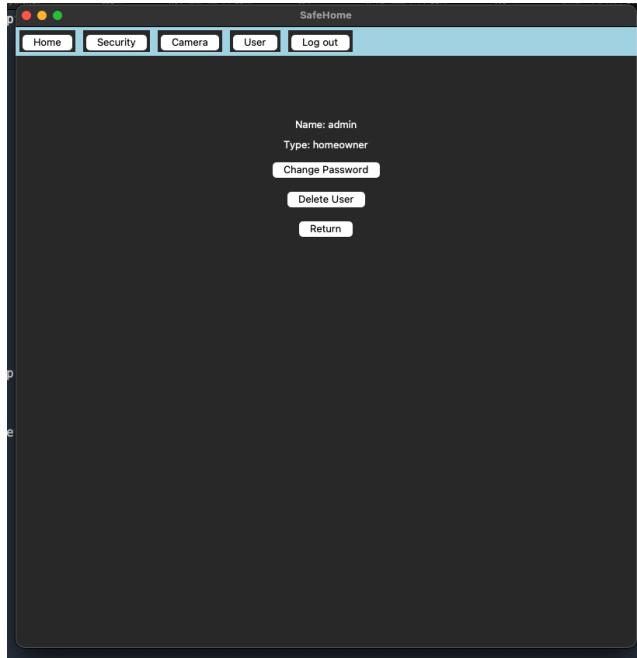
Description: The change password doesn't work

Reproduce Steps:

1. Log in through web browser window
2. Click “User setting button”



3. Click “Change password”. Nothing happened. We don't know if it's working or not.



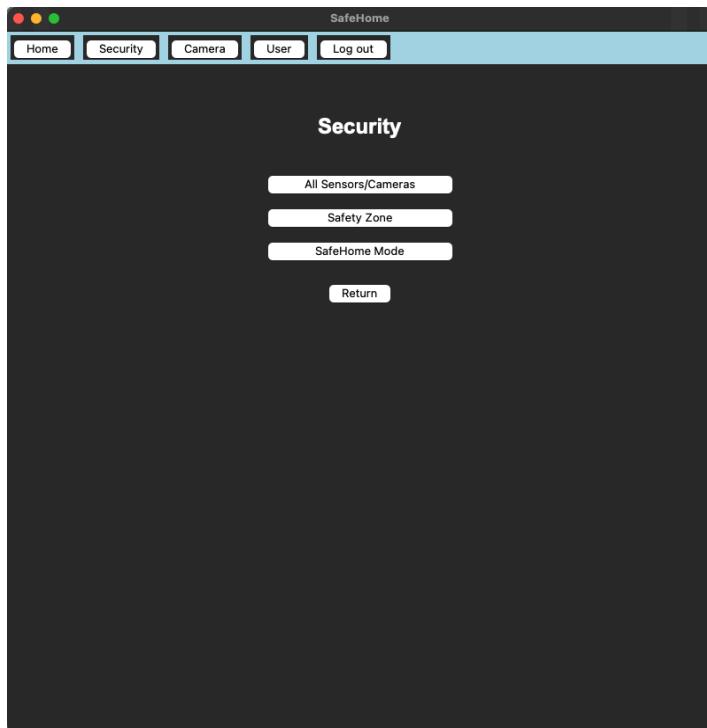
## Scenario 11: Camera window UI is clipped

Author: Geunyeong Cheon

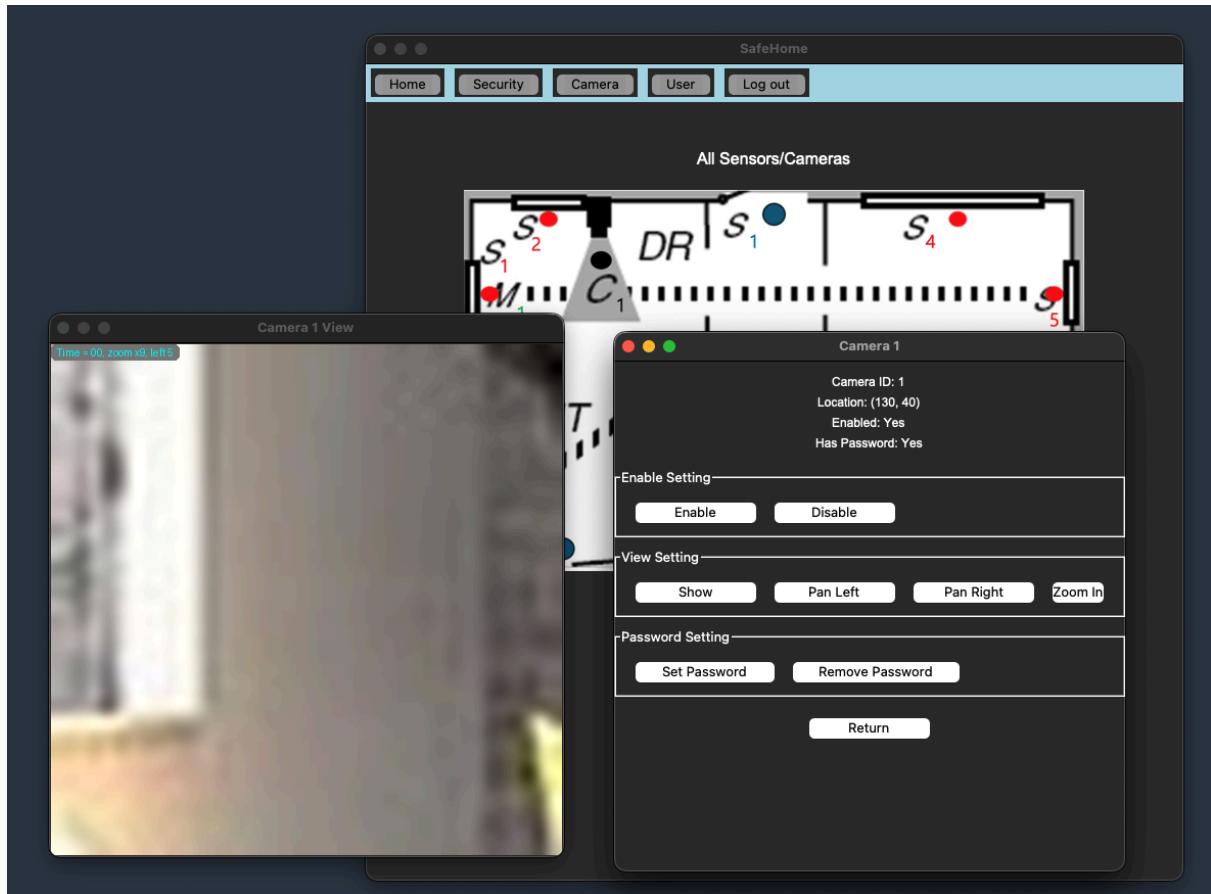
Description: “zoom out” button is clipped

Reproduce Steps:

1. Login through web window
2. Click “Security button” on top



3. Click “All sensors/Cameras”
4. Click black dot right up to the “C1”. In the “Camera 1” window, only “zoom in” button exists.



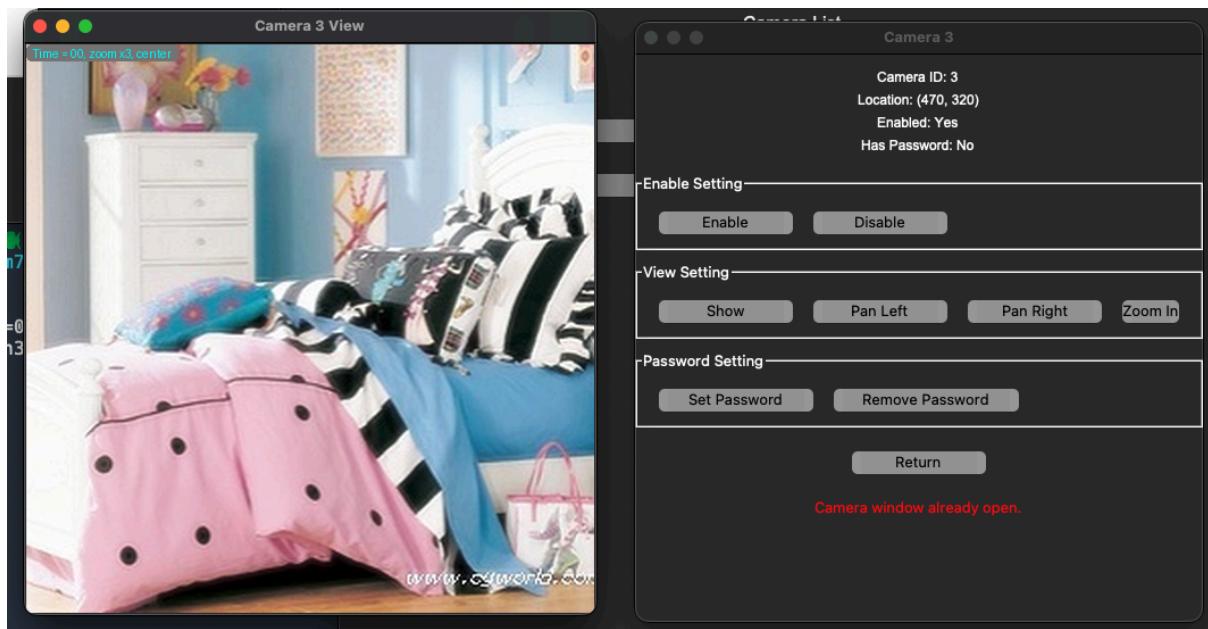
### Scenario 12: Time is not increased

Author: Geunyeong

Description: In the camera view window, time is not increased.

Reproduce Steps:

1. Log in through web window
2. Click “Camera button” on top
3. Click button “3”
4. Wait a bit. You can see the time in the left upper is not changed



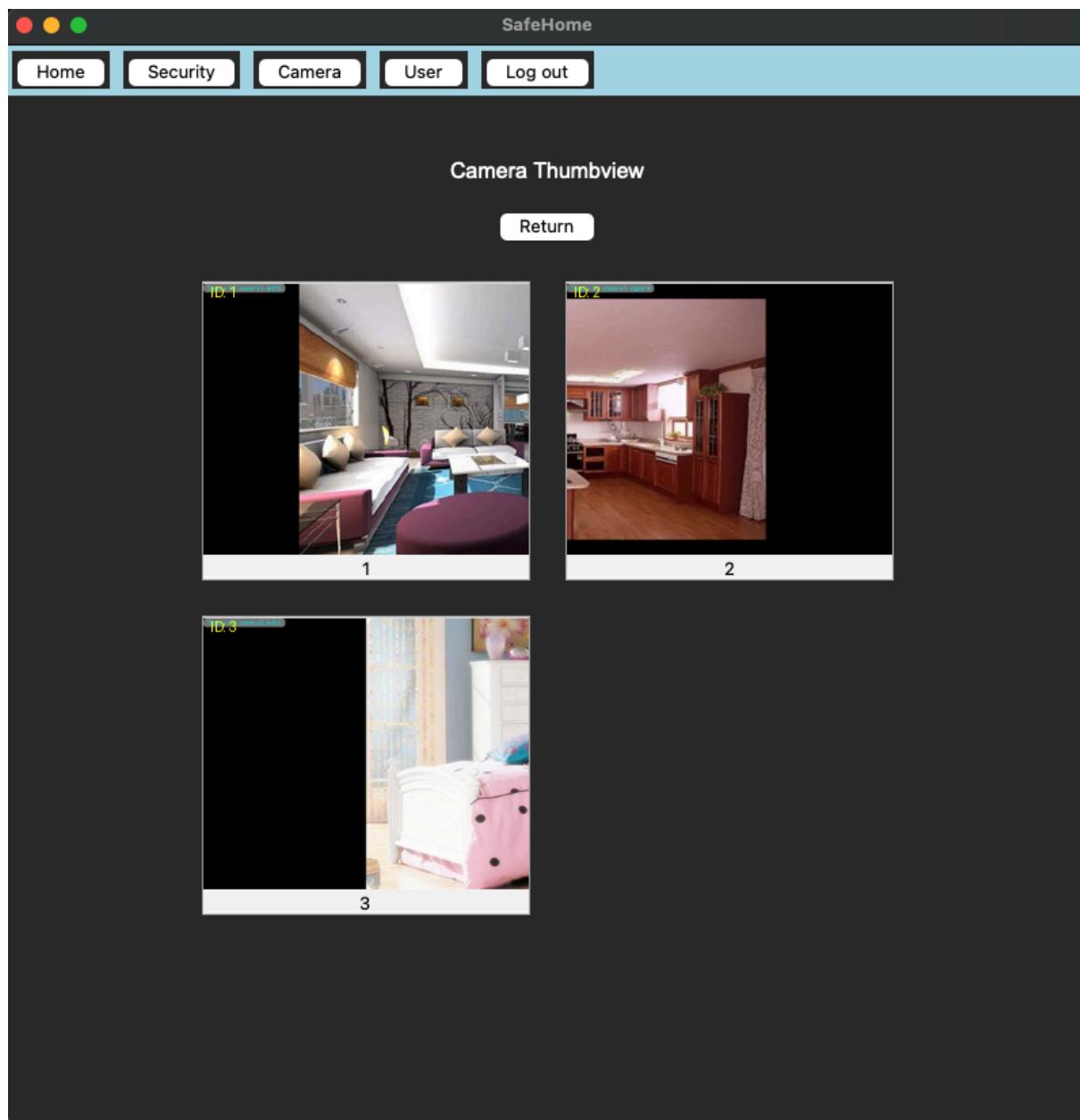
### Scenario 13: Pan left, right remains

Author: Geunyeong

Description: When you click pan left in camera window and go to thumbnail view, the pan left view remains.

Reproduce Steps:

1. Log in web window
2. Click "Camera" button on top
3. Click button "3"
4. Click "pan left" button 3 times
5. Close windows and go to "view as thumbnail" button. You can see the camera 3 is pan left.



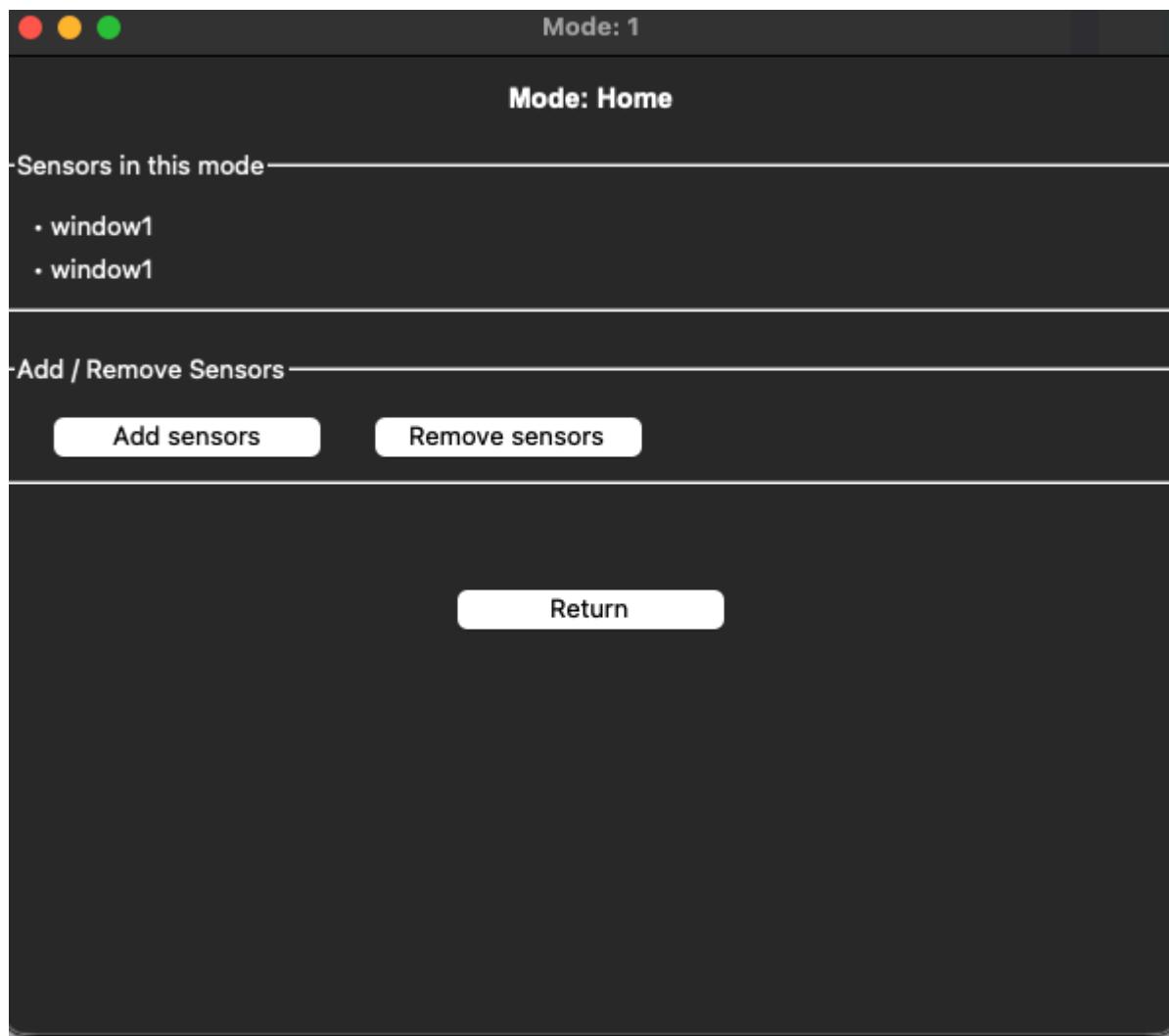
### Scenario 14: Remove sensor not work

Author: Geunyeong

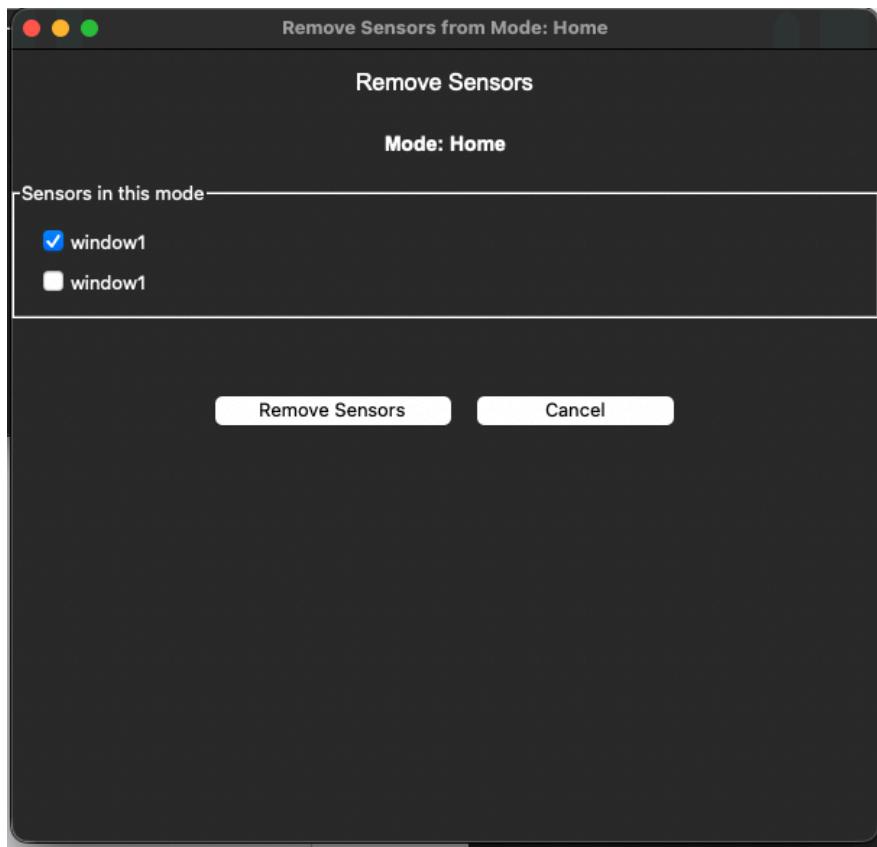
Description: Follow steps in Scenario 1. And when you try to remove one of duplicate sensor, it doesn't work

Reproduce Steps:

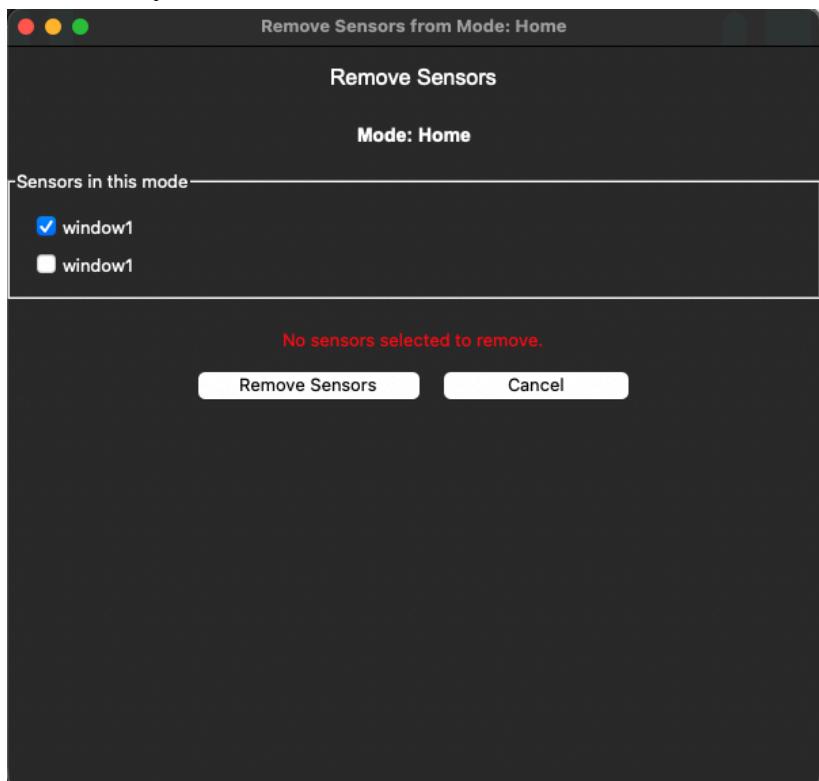
1. Follow steps in Scenario 1
2. Click “remove sensors” button



3. Click first sensor and click “Remove sensors” button



4. It says “No sensors selected to remove”



Scenario 15: There is no way to arm/disarm in web window

Author: Geunyeong Cheon

Description: I found that there is no button or UI to arm/disarm in web window

Reproduce Steps:

1. Log in through web window
2. Click every button. There is no such “arm/disarm”

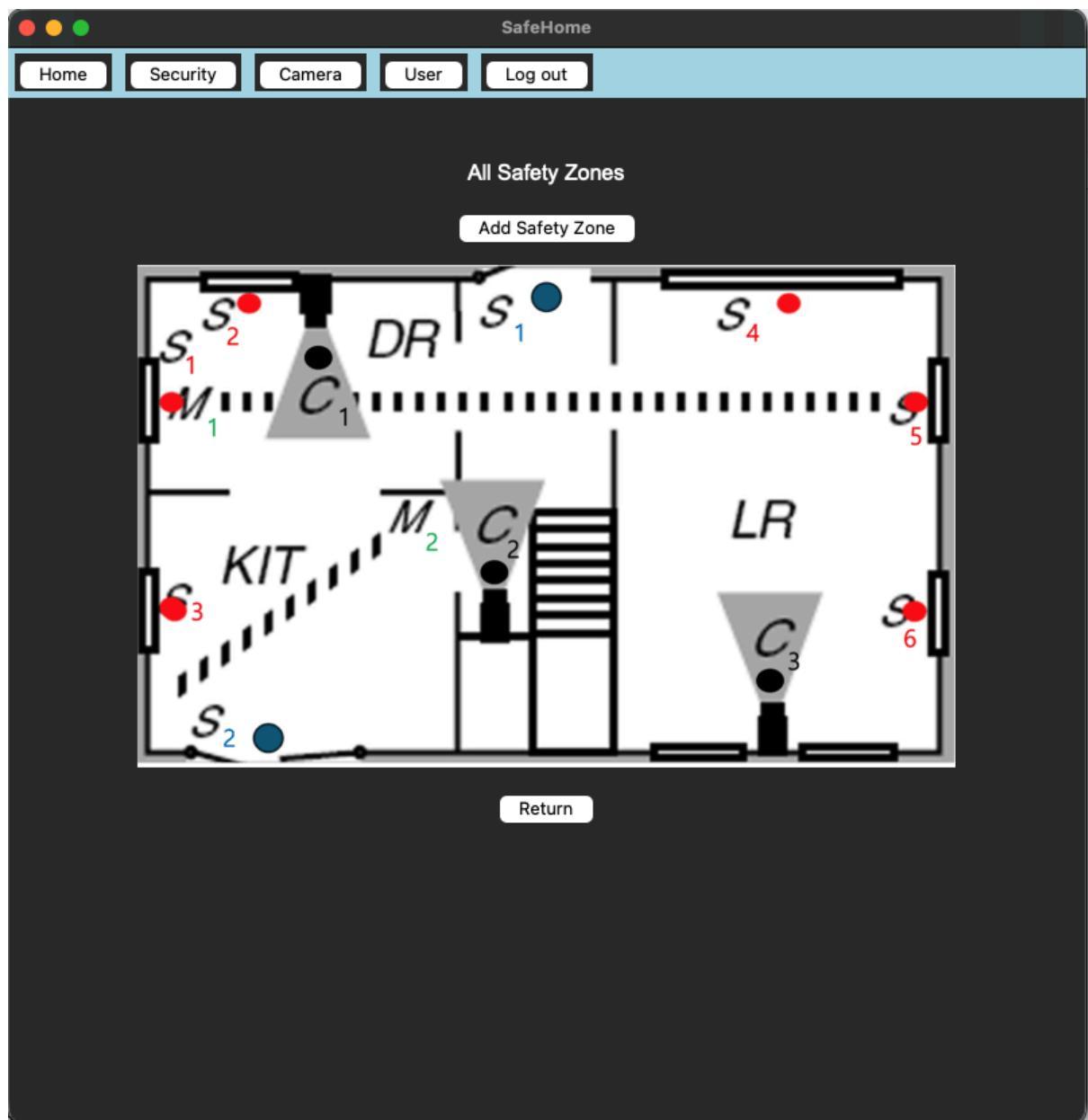
Scenario 16: Can not disable safety zone

Author: Geunyeong Cheon

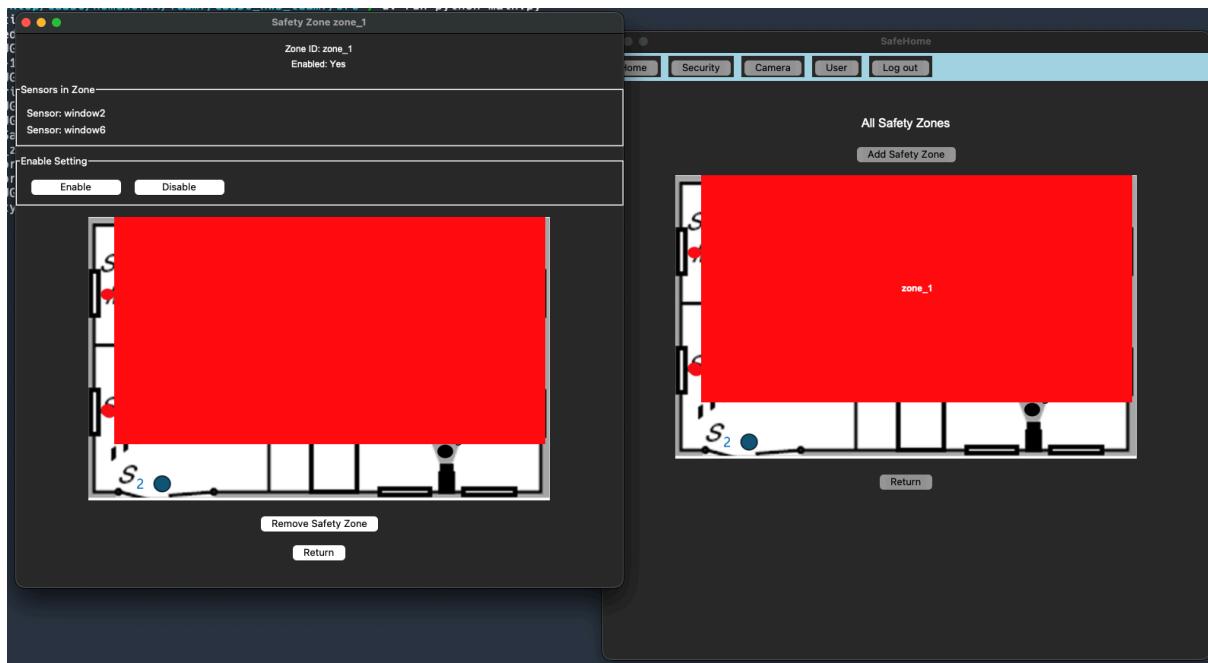
Description: After figuring out safety zone, we can not disable

Reproduce Steps:

1. Log in through window
2. Click “Security” top left
3. Click “Safety zone”
4. Click “Add Safety zone”



5. Click S2 red dot and S6 red dot and click "Submit"
6. Click "zone 1 rectangle"



7. Click “Disable”. Enabled on top should be changed to No but it’s not changed.

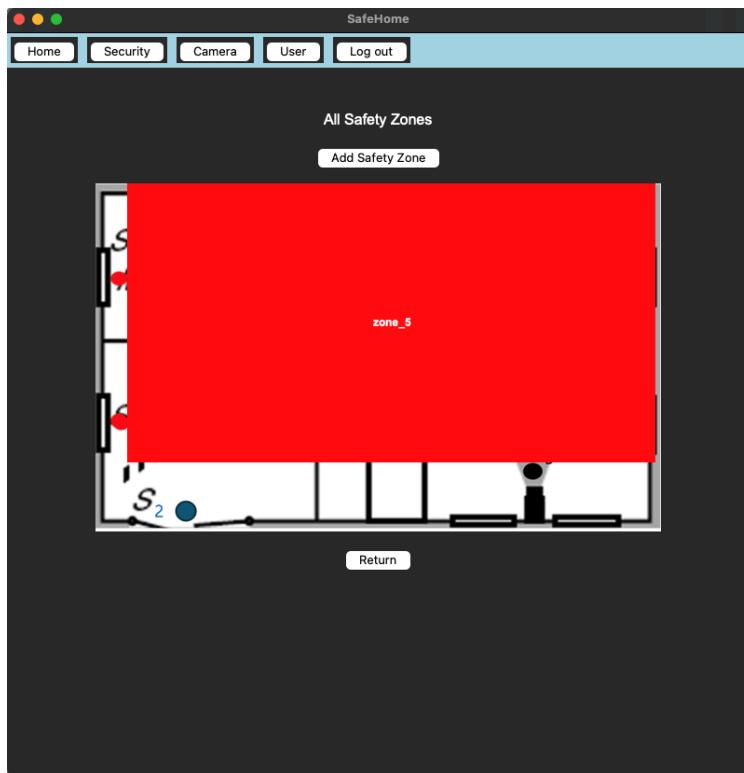
#### Scenario 17: Covered zone doesn't contain all sensors

Author: Geunyeong Cheon

Description: The rectangle should cover all sensors under the specified range but it's not.

Reproduce Steps:

1. Follow Step 1 ~ 6 in Scenario 16
2. Click the red zone



3. There should be more sensors in zone but there are only two.



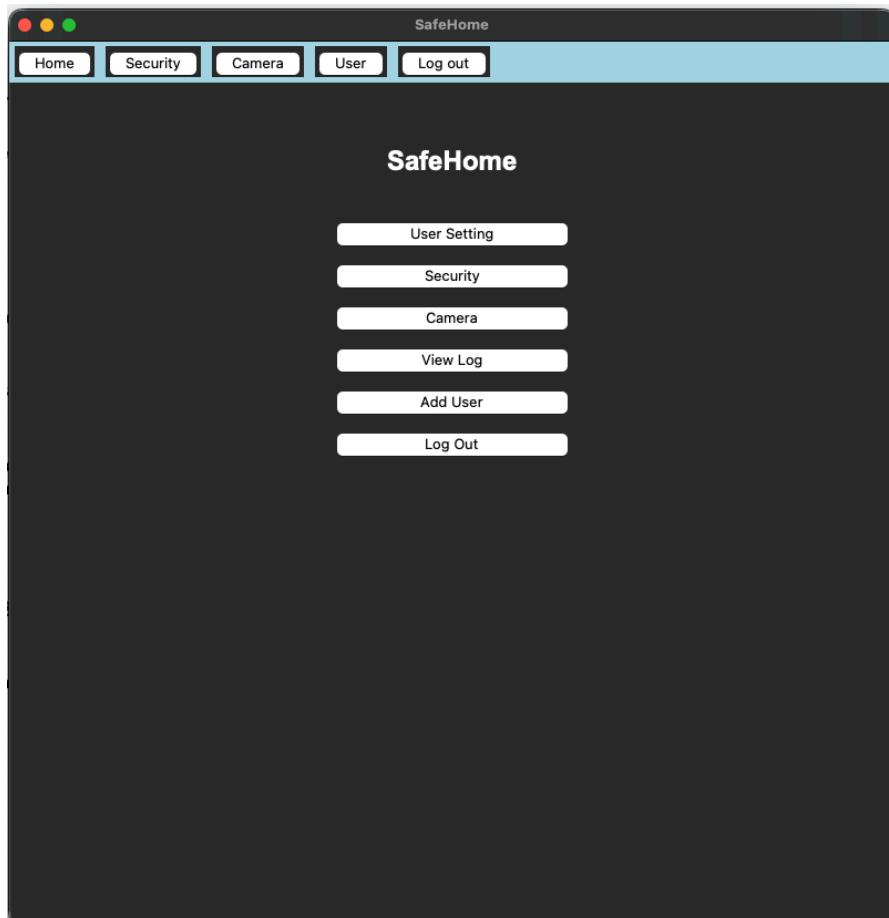
## Scenario 18: There are no logs

Author: Geunyeong

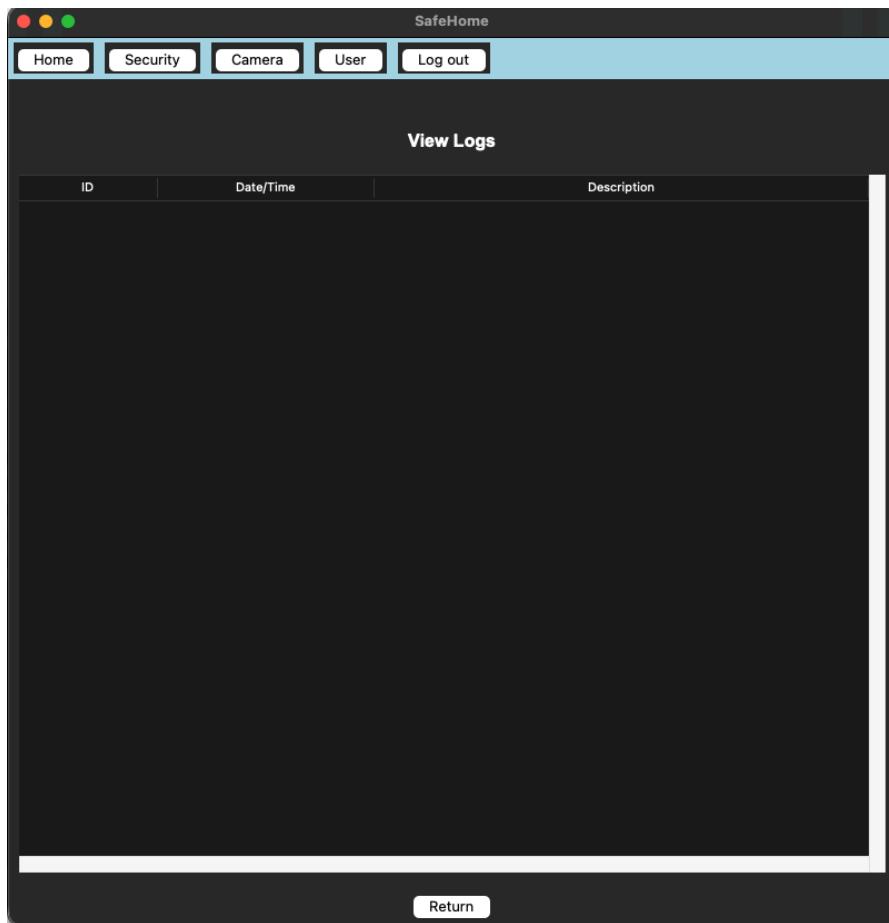
Description: Can not check logs are generated or not

Reproduce Steps:

1. Log in through web window
2. Try several features (camera setting, safety zone setting etc)
3. Click view log



4. Nothing logged



### Scenario 19: Can add already existing user with no errors

Author: Alan Zhainar

Description: After adding already existing user, no error message is shown and password change isn't reflected

Reproduce Steps:

1. Log in through web window using admin credentials (username:admin, password:123456)
2. Click add user
3. Input username: admin and different password: 1234567
4. No error message is shown and no updates to the admin user's password

Username:

Password:

Incorrect username or password.

Scenario 20: Can trigger panic alarm even after turning off the system

Author: Alan Zhainar

Description: Can trigger panic after turning off safehome system

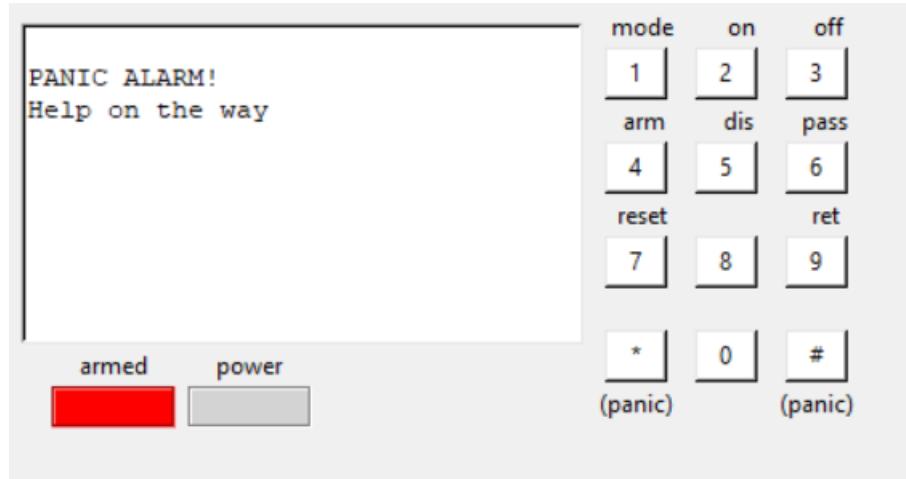
Reproduce Steps:

Step 1. Turn on SafeHome system via control panel

Step 2. Turn off SafeHome system via control panel

Step 3. Press panic button

Step 4. Panic still triggers even though safehome system is powered off



Scenario 21: Can still use surveillance and security functions after turning off SafeHome system via control panel

Author: Alan Zhainar

Description: Possible to still use safehome functions in web page after powering safehome system off in control panel

Reproduce Steps:

Step 1. Write password in control panel

Step 2. Turn off safehome system

Step 3. Security and Surveillance functions are still possible to use after turning off safehome system

Scenario 22: SafeHome mode is not reflected in control panel after update in web page

Author: Alan Zhainar

Description: After changing mode in SafeHome mode in web page, the change is not shown on the control panel and still stays at “Home” as it is.

Reproduce Steps:

Step 1. Log in in web page

Step 2. In security change safehome mode to overnight travel

**Current Safe Home Mode**

Current Mode: Overnight Travel

**Home**  
Arms perimeter sensors while you are inside the house. [Configure this mode](#)

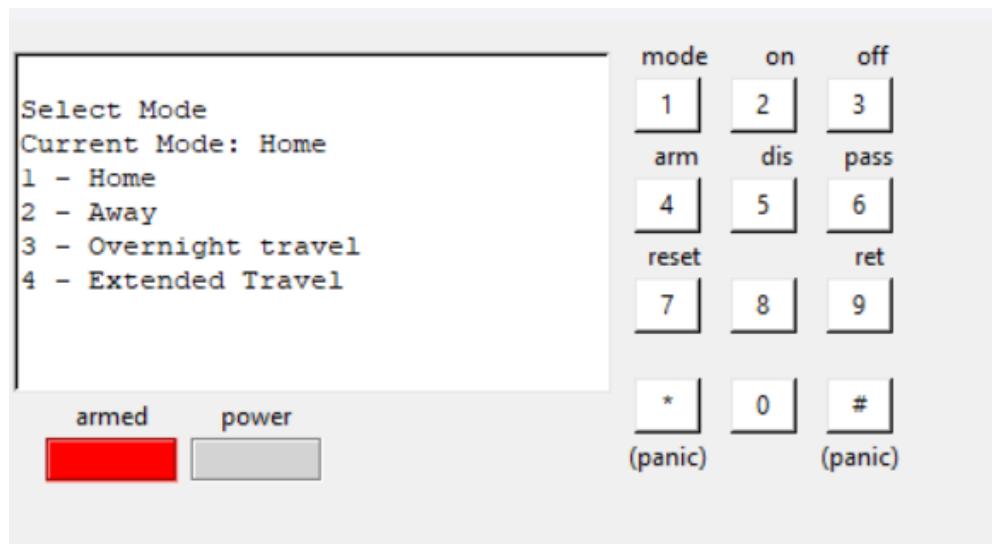
**Away**  
Arms all sensors including motion detectors. [Configure this mode](#)

**Overnight Travel**  
Full arm mode with night-optimized sensitivity. [Configure this mode](#)

**Extended Travel**  
Maximum security mode with extra notifications. [Configure this mode](#)

[Change Mode](#)

Step 3. Check safehome mode in control panel, and see that it's not updated



### Scenario 23: Duplicate safety zone creation (Identical Sensor set allowed)

Author: Alan Zhainar

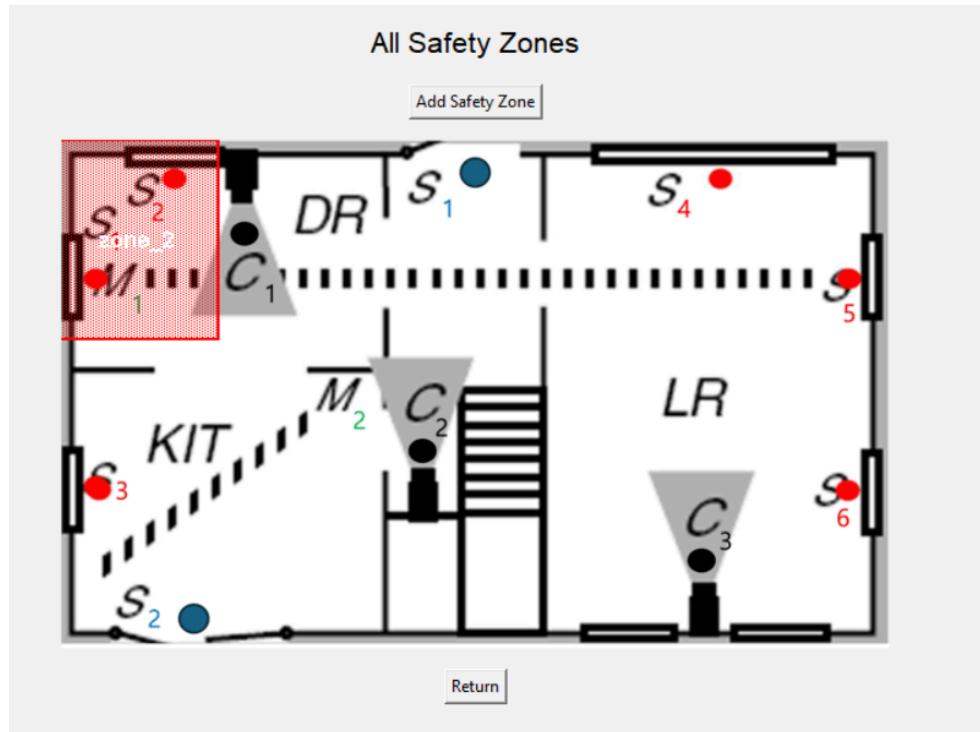
Description: Possible to create duplicate safety zones, which creates ambiguity on the UI.

Reproduce Steps:

Step 1. Log in from web page

Step 2. In security create 2 zones with same name

Step 3. Observe and see that only one of the duplicate zones is shown on the UI (we have 2 duplicate zones but only one is shown, so we can't access the zone previously created)



## 4. Testing results - Team 8

Scenario 1: Guest Dashboard Crop 1

Author: Arda EREN

Description: Within the Main dashboard as a guest user, The sensor status is cropped

Reproduce Steps:

Step 1. Login the dashboard as a guest

Step 2. Observe the sensor status at right.

Type	Loca
WINDOOR	DR Wir
WINDOOR	DR Wir
WINDOOR	Kitchen
WINDOOR	LR Wir
WINDOOR	LR Wir
WINDOOR	LR Wir
WINDOOR	Hallwa
WINDOOR	Kitch
MOTION	Motion
MOTION	Motion I

Scenario 2: Guest DashBoard Crop 2

Author: Arda EREN

Description: The text underneath the title is clipped on windows.

Reproduce Steps:

Step 1. Login as an admin/guest

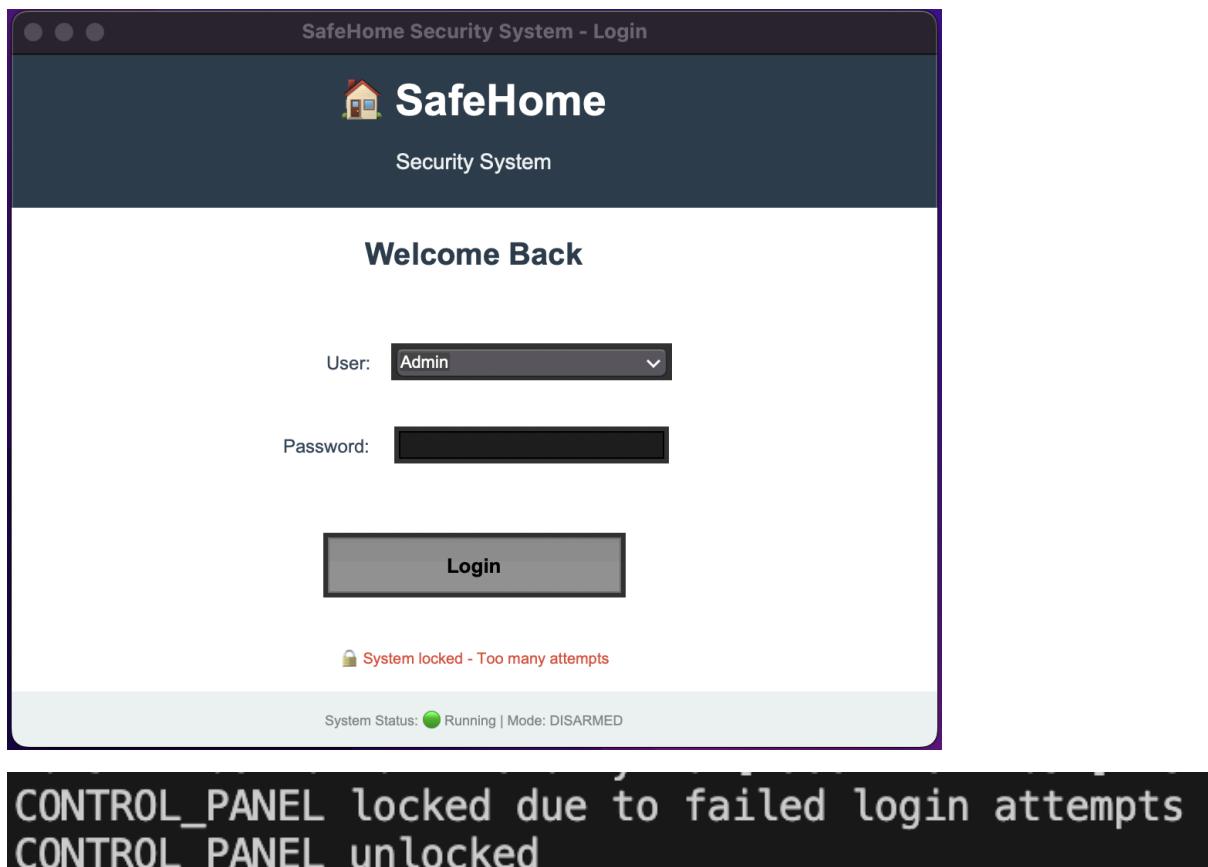
Step 2. Observe the title at the top left side.



## Scenario 3: Lockdown warning remains visible after system unlock

Author: Akhmetov Yernaz

Description: After repeatedly entering a wrong password, the system correctly enters a locked state and later unlocks automatically. However, the login screen still continues to display the warning message “System locked – Too many attempts,” even though the system has already been unlocked. The interface does not update to reflect that the lockdown has ended.



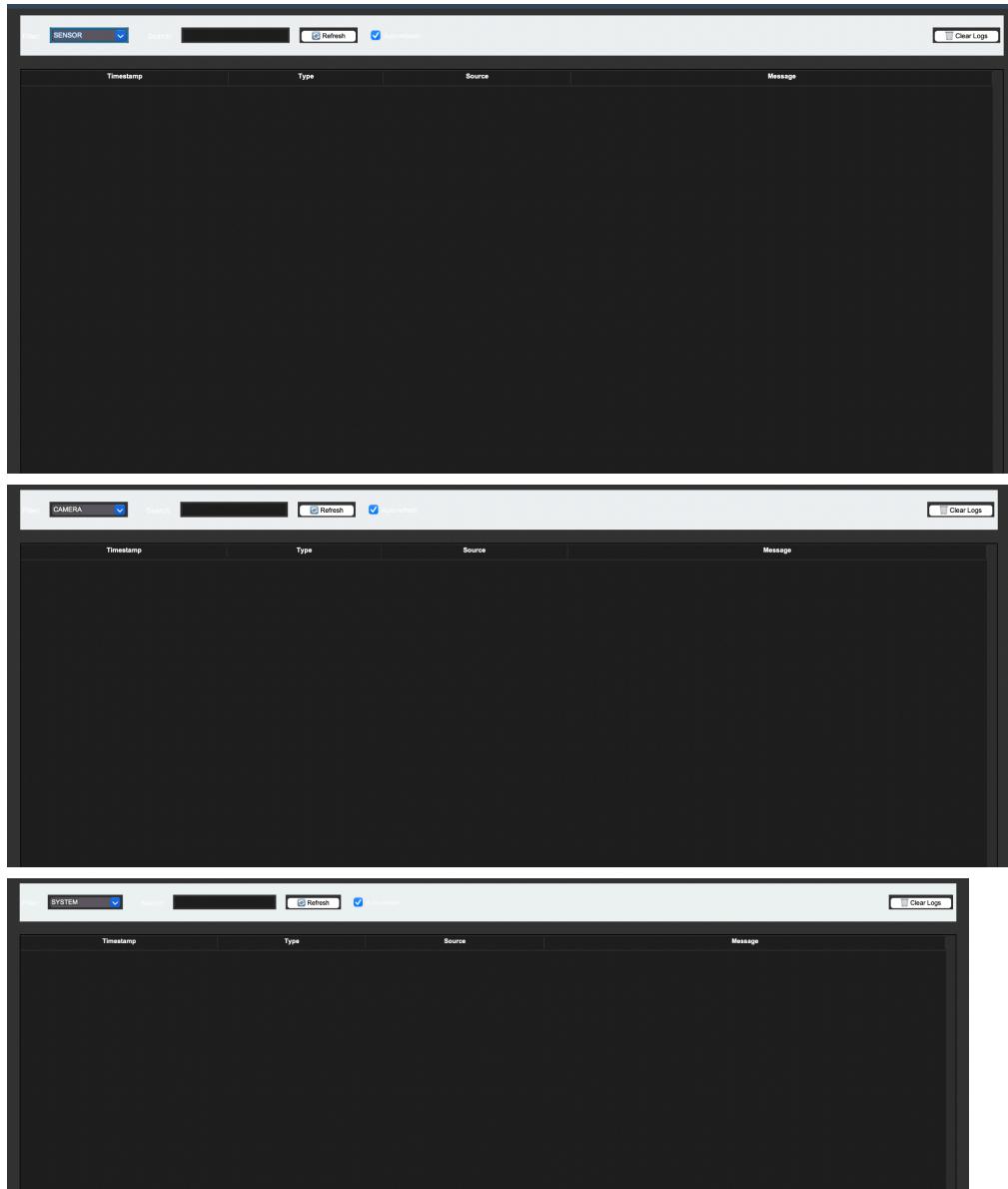
Reproduce Steps:

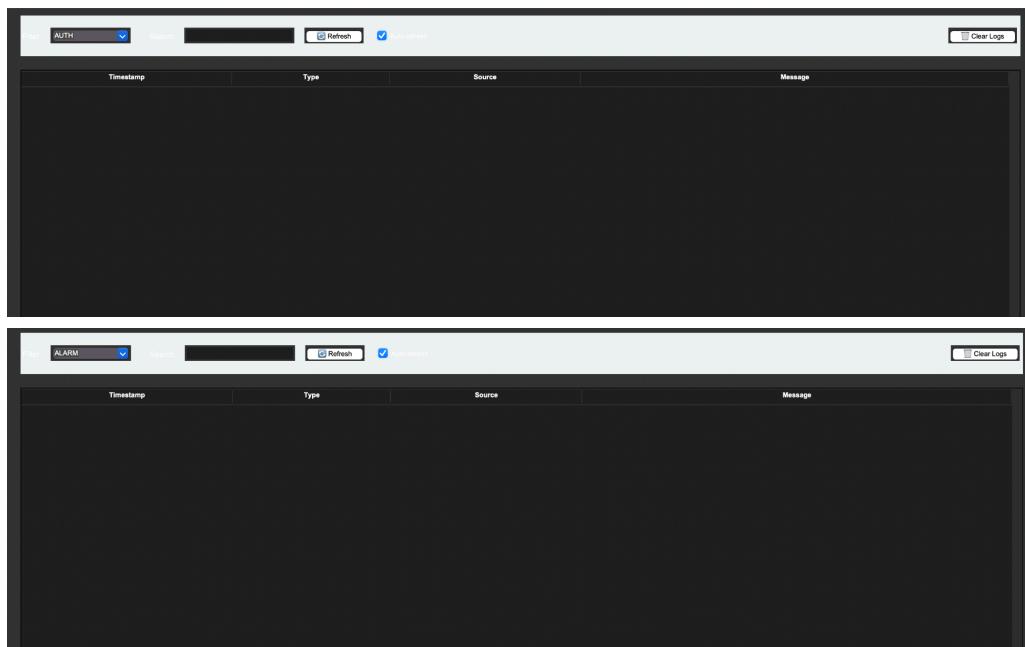
- Step 1. Start the system and go to the login window.
- Step 2. Select Admin and intentionally enter an incorrect password multiple times until the system locks.
- Step 3. Wait until the lock duration(5 min) ends and the system unlocks in the console.
- Step 4. Observe that the login screen still displays the lockout warning text even though the system is unlocked.

## Scenario 4: Log category filters do not filter displayed entries

Author: Akhmetov Yernaz

Description: Inside the LOGS window, switching between the different filter categories such as “SENSOR”, “CAMERA”, “ALARM” and other does not change the displayed log messages. Regardless of which category is selected, the log panel shows nothing meaning the filtering functionality does not work as intended.





#### Reproduce Steps:

- Step 1. Log in as Admin and open the LOGS window from the main dashboard.
- Step 2. Observe several log entries from different sources (sensor triggers, camera actions, or system events).
- Step 3. In the LOGS window, change the filter selection among categories.
- Step 4. Observe that the displayed logs do not update according to the selected filter category.

#### Scenario 5: Infinite Dashboards

Author: Arda EREN

Description: With persistent logout confirmation popup, user is able to create infinite dashboards both as guest and admin simultaneously . ONLY WORKS IN WINDOWS

#### Reproduce Steps:

- Step 1. Login As either admin or guest,
- Step 2. Within the dashboard, click logout button multiple times, don't choose YES OR NO on none of the popups ()
- Step 3. Choosing yes, will logout the user from the current dashboard, however the rest of the popups will not terminate.
- Step 4. Click on these popups but do not prompt yes or no,
- Step 5. Afterwards, click on YES on the foreground popup

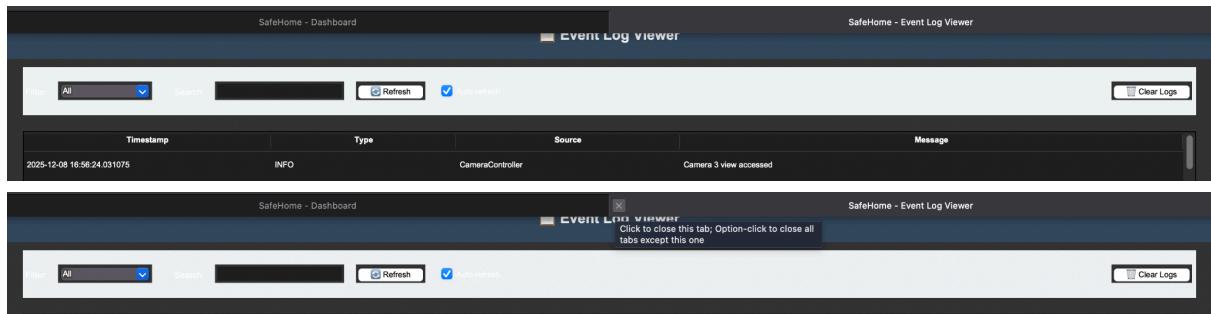
Step 6. After this, you will be able to interact with the login page again. Enter password and open the dashboard again.

Step 7. After this step, every remaining logout popup will create a new login page that will launch a simultaneous dashboard.

## Scenario 6: Close button in Tab intermittently disappears

Author: Akhmetov Yernaz

Description: The close button for the Tab(LOGS for this case) sometimes does not appear or becomes hidden when the cursor is placed near the top of the window. As a result, the user cannot consistently close the log viewer using the provided UI button, and has to reposition the cursor or move the window until the button becomes visible again.



Reproduce Steps:

Step 1. Log in as Admin and open the selected tab(LOGS) from the dashboard.

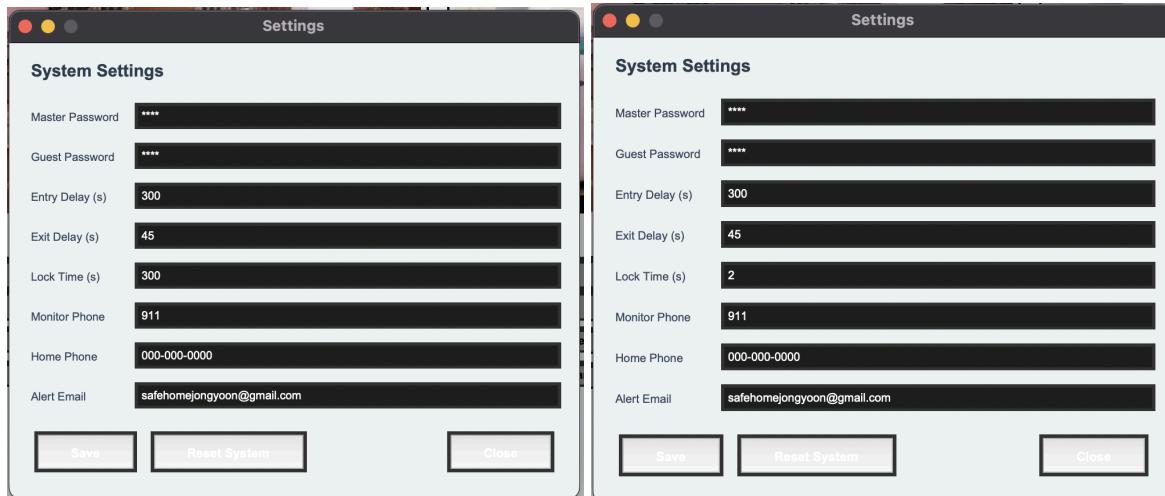
Step 2. Move the mouse cursor around different positions near the top bar of the window.

Step 3. Observe that the close button occasionally disappears or fails to appear, preventing the user from closing the window normally.

## Scenario 7: Lock Time setting does not apply and Entry Delay is used instead

Author: Akhmetov Yernaz

Description: In the System Settings window, changing the Lock Time value does not take effect. Instead, the system appears to use the Entry Delay value as the lockout duration after failed login attempts. Adjusting Lock Time has no visible impact, while modifying Entry Delay unexpectedly changes how long the system remains locked after multiple incorrect passwords.



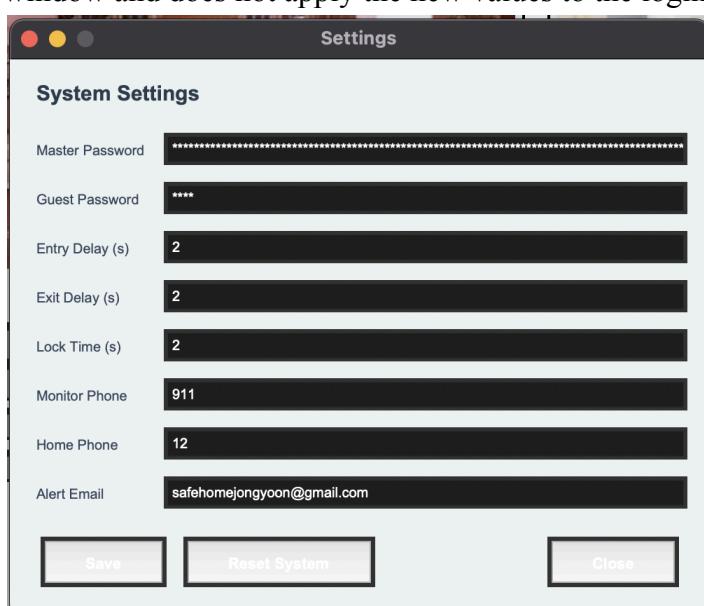
Reproduce Steps:

- Step 1. Log in as Admin and open the System Settings window.
- Step 2. Change the Lock Time value to a small number such as 2 seconds and click Save.
- Step 3. Close the settings and enter several incorrect passwords to trigger a lockout.
- Step 4. Observe that the lockout duration matches the Entry Delay value rather than the Lock Time value you previously set.

### Scenario 8: Changing passwords in System Settings does not update

Author: Akhmetov Yernaz

Description: When modifying the Master Password or Guest Password in the System Settings window, the new values appear visually in the text fields, but the actual login credentials remain unchanged. After saving and closing the settings, logging out, and attempting to log in with the new passwords, the system still only accepts the original default passwords. This shows that the application only stores the edited text in the settings window and does not apply the new values to the login authentication logic.



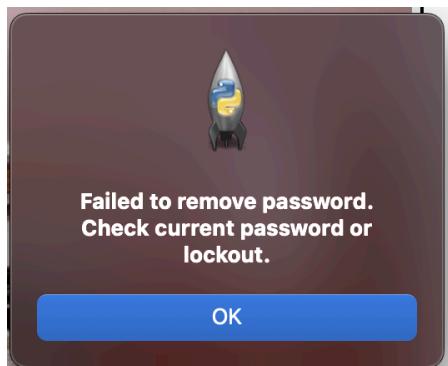
Reproduce Steps:

- Step 1. Log in as Admin and open System Settings.
- Step 2. Change the Master Password (or Guest Password) to a new value and click Save.
- Step 3. Close the settings window and log out.
- Step 4. On the login screen, attempt to sign in using the newly set password.
- Step 5. Observe that the login only succeeds using the original default password instead of the updated password entered in the settings.

### Scenario 9: Camera password attempts never trigger lockout

Author: Akhmetov Yernaz

Description: When updating, deleting, enabling, or disabling a camera that requires a password, entering incorrect passwords repeatedly does not cause any lockout behavior. Instead, the system simply displays an error message and continues to allow unlimited attempts.



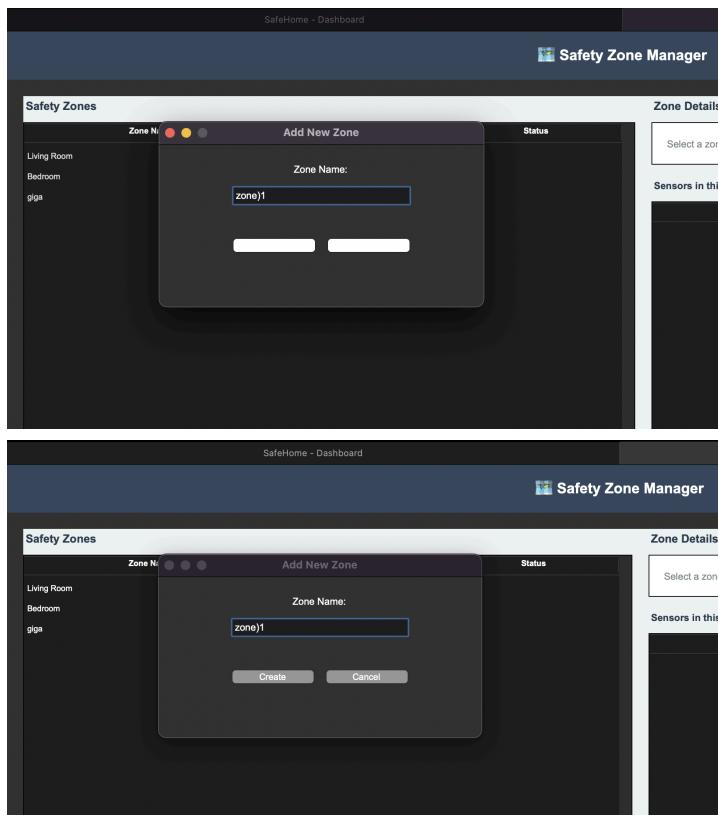
Reproduce Steps:

- Step 1. Log in as Admin and observe the Live Camera Feeds in the main dashboard.
- Step 2. Set a password to any camera.
- Step 3. Attempt to update, delete, or enable/disable the camera by entering the wrong password multiple times.
- Step 4. Observe that the system never locks out the user and continues to allow repeated incorrect attempts without any increasing restriction.

### Scenario 10: Black theme hides buttons in specific windows

Author: Akhmetov Yernaz

Description: When the application theme is set to a dark scheme, several UI buttons inside certain windows such as the zone creation dialog do not become visible. For example, the Create and Cancel buttons disappear or blend into the background when adding a new zone. These buttons reappear only when the other tabs are clicked, making it difficult for the user to complete the action using the interface.



#### Reproduce Steps:

- Step 1. Log in as Admin and ensure the dark or black theme is active in the application.
- Step 2. Open the Safety Zone Manager and click Add Zone.
- Step 3. Observe that the Create and Cancel buttons are not visible or appear extremely dim against the background.
- Step 4. Attempt to interact with the window and notice that the buttons become visible only after other tabs are clicked.

#### Scenario 11: Alarm state does not appear on dashboard after intrusion detection

Author: Akhmetov Yernaz

Description: When the system is initially in Away (or any other) mode and a motion sensor is triggered, the terminal correctly reports the intrusion and indicates that the alarm is ringing. However, the SafeHome dashboard never changes to an Alarm mode. The system mode label remains the same, and there is no visible indication on the GUI that the alarm is active.

**SafeHome Dashboard**

Mode: AWAY  
SYSTEM RUNNING

LOGS LOGOUT

Live Camera Feeds

Dining Room Camera Dining Room

Kitchen Camera Kitchen

Living Room Camera Living Room

System Control

Home Away Overnight Extended Disarm

OPEN SENSOR SIMULATOR

**ALARM RINGING!**

- Calling 911: INTRUSION at Motion DR-LR

9	MOTION	Motion DR-LR	Armed	Detected
10	MOTION	Motion Kitchen	Armed	Clear

Reproduce Steps:

- Step 1. Log in as Admin and set the system to Away (or any other) mode.
- Step 2. Open the Sensor Simulator and trigger any armed motion sensor.
- Step 3. Observe in the terminal that the alarm rings and intrusion messages appear continuously.
- Step 4. Look at the SafeHome dashboard and notice that the displayed system mode does not change, and no alarm status is shown visually.

## Scenario 12: Safety Zone Manager sensor count not updating

Author: Arda EREN

Description: Given the user opens 2 safety zone managers, editing one zone will not reflect the new sensor count within the zone on the other safety zone manager. WORKS IN WINDOWS

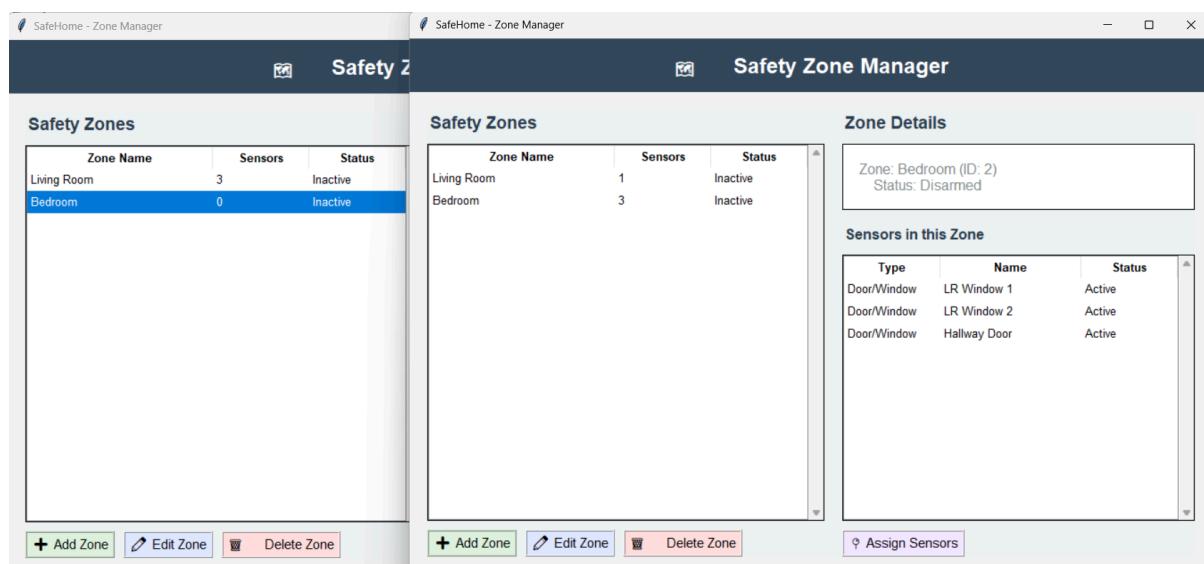
Reproduce Steps:

Step 1. Login As admin

Step 2. Press Manage Zones twice, this will open 2 safety zone managers.

Step 3. Update a zone by adding/removing sensors in one of the safety zone managers

Step 4. Check the other safety zone manager, the sensor count will not be up to date.



## Scenario 13: Silence Alarm without an actual alarm

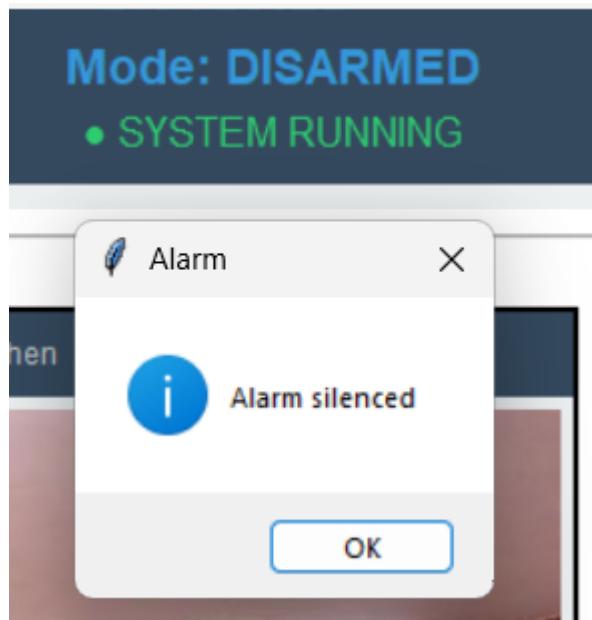
Author: Arda EREN

Description: The user can silence alarm without actually sounding the alarm

Reproduce Steps:

Step 1. Login As admin

Step 2. Press Silence Alarm, you silenced an non-existing alarm.



#### Scenario 14: Inaccessible Sensor Simulator

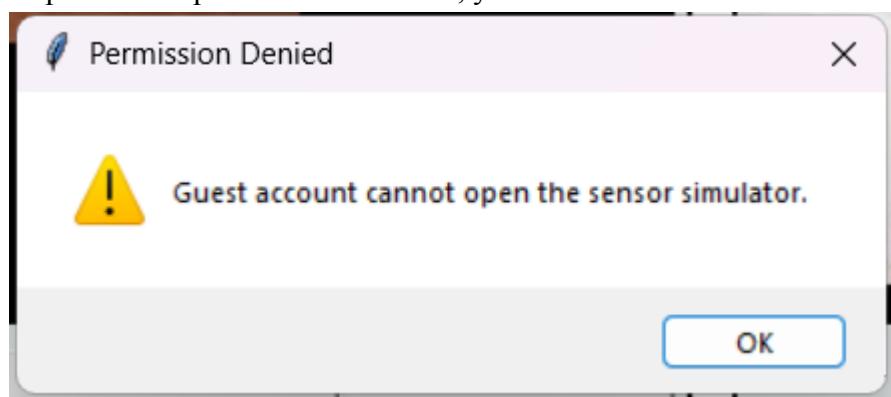
Author: Arda EREN

Description: Open sensor simulator button only exists within the guest view, and prompts “guests cannot open the sensor simulator”. Admin view doesn't have this button, effectively rendering this feature useless.

Reproduce Steps:

Step 1. Login As guest

Step 2. Press open sensor simulator, you wont be able to.



#### Scenario 15: No Floor Plan Map Implemented/Visible On Windows

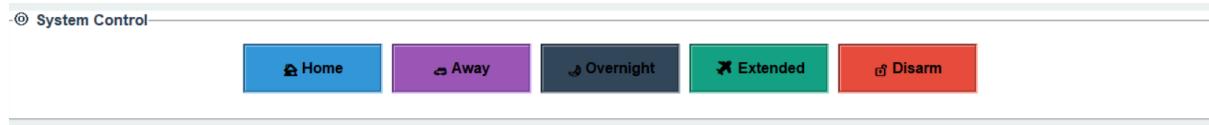
Author: Arda EREN

Description: The Floor Plan Map within the Open Sensor Simulator is not accessible within admin dashboard on windows

Reproduce Steps:

Step 1. Login as admin

Step 2. Within dashboard, the Open Sensor Simulator is not accessible. The Floor Plan Map Does Not Exist.



### Scenario 16: Negative Number for Entry delay

Author: Arda EREN

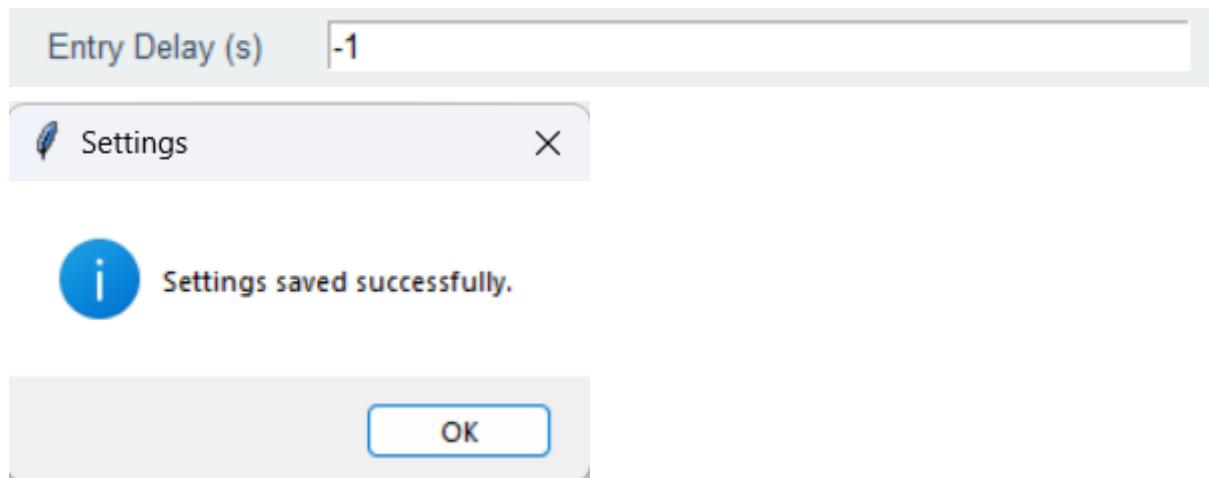
Description: The entry delay can be set to negative values or strings.

Reproduce Steps:

Step 1. Login as admin

Step 2. Within dashboard, settings at top left,

Step 3. Set the Entry Delay to -1.



### Scenario 17: Monitor Phone Invalid Input

Author: Arda EREN

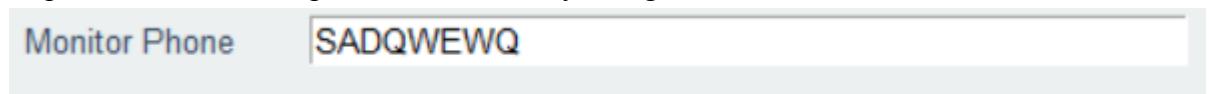
Description: The monitor phone accepts invalid inputs

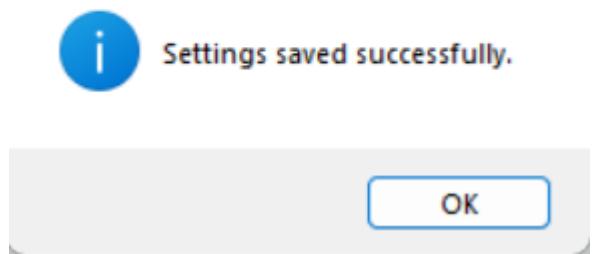
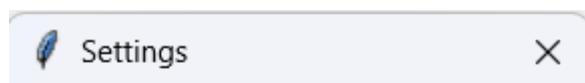
Reproduce Steps:

Step 1. Login as admin

Step 2. Within dashboard, settings at top left,

Step 3. Set the Monitor phone to an arbitrary string.





### Scenario 18: HomePhone Invalid Input

Author: Arda EREN

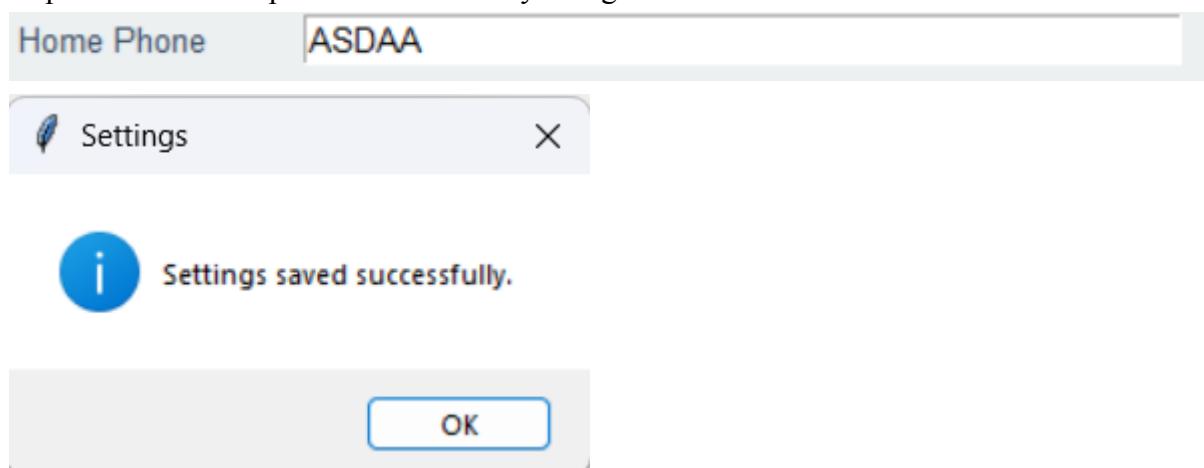
Description: The home phone accepts invalid inputs

Reproduce Steps:

Step 1. Login as admin

Step 2. Within dashboard, settings at top left,

Step 3. Set the homephone to an arbitrary string.



### Scenario 19: Alert Email Invalid Input

Author: Arda EREN

Description: The alert email accepts invalid inputs

Reproduce Steps:

Step 1. Login as admin

Step 2. Within dashboard, settings at top left,

Step 3. Set the Monitor phone to an arbitrary string or integer..

Alert Email

12312



Settings



Settings saved successfully.

OK