



CS350 Safehome Project

HW#4_Team5_Bug_Report

Team 4

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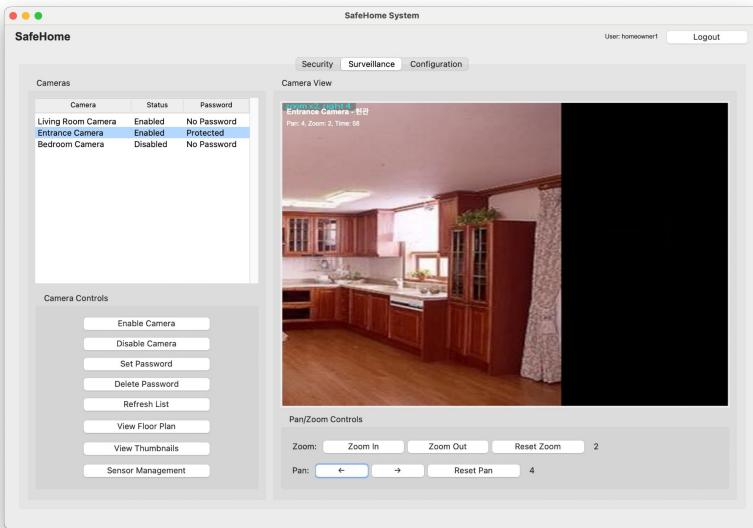
20210623 Yeongjun Joo

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A. Frontend Web UI

1. Camera boundary Error



<Bug Description>

Error Case: On the Surveillance page, there is no restriction on the camera's movement range.

Expected Result: When the camera reaches its boundary, further Pan button inputs should be ignored.

Actual Result: If the Pan button is pressed repeatedly, a black screen appears.

<Environment>

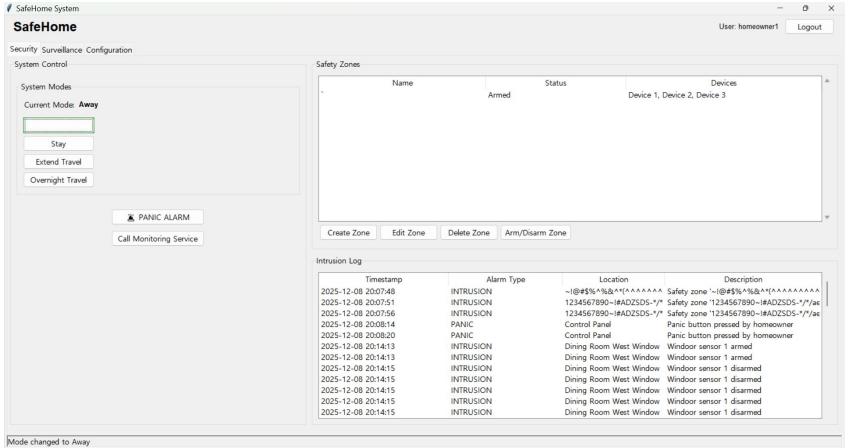
OS : MacOS 15.0.1, 15.6.1

Python version : 3.14

pip list result (screenshot)

| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
| annotated-types | 0.7.0 |
| anyio | 4.11.0 |
| certifi | 2025.11.12 |
| cfgv | 3.4.0 |
| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.121.2 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| pip | 25.3 |
| platformdirs | 4.5.0 |
| pluggy | 1.6.0 |
| pre_commit | 4.4.0 |
| pydantic | 2.12.4 |
| pydantic_core | 2.41.5 |
| Pygments | 2.19.2 |
| pytest | 9.0.1 |
| PyYAML | 6.0.3 |
| requests | 2.32.5 |
| sniffio | 1.3.1 |
| starlette | 0.49.3 |
| typing_extensions | 4.15.0 |
| typing_inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

2. Not visible selected mode button



<Bug Description>

Error Case :

1. Open the frontend.
2. Enter your user ID, password, and password (PW1 and PW2) and log in.
3. The text in the currently selected mode in System mode is not visible.

Expected Result :Selected button with black text

Actual Result : Selected button with white text (invisible)

<Environment>

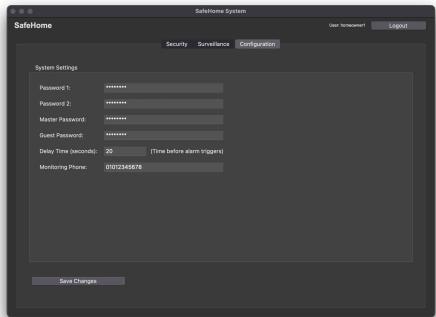
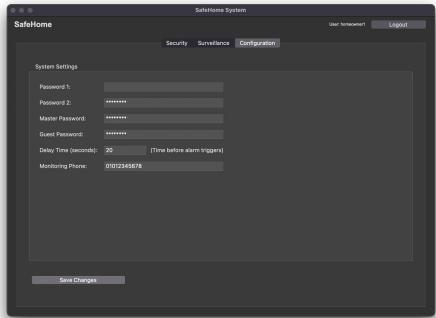
OS : Windows 11

Python version : 3.14.2

pip list result (screenshot)

| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
| annotated-types | 0.7.0 |
| anyio | 4.12.0 |
| certifi | 2025.11.12 |
| cfgv | 3.5.0 |
| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| colorama | 0.4.6 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.124.0 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| pip | 25.3 |
| platformdirs | 4.5.1 |
| pluggy | 1.6.0 |
| pre_commit | 4.5.0 |
| pydantic | 2.12.5 |
| pydantic_core | 2.41.5 |
| Pygments | 2.19.2 |
| pytest | 9.0.2 |
| PyYAML | 6.0.3 |
| requests | 2.32.5 |
| safehome | 0.0.1 |
| starlette | 0.50.0 |
| typing_extensions | 4.15.0 |
| typing-inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

3. Empty Password



<Bug Description>

Error Case :

Setting Password as empty value in Configuration and try to save changes, it fails without any notification.

- 1.Move to [Configuration]
- 2.Empty [Password 1]
- 3.Click [Save Changes]
- 4.Click [OK] from alert
- 5.[Password 1] is reverted

Expected Result :
Noticeable validation error

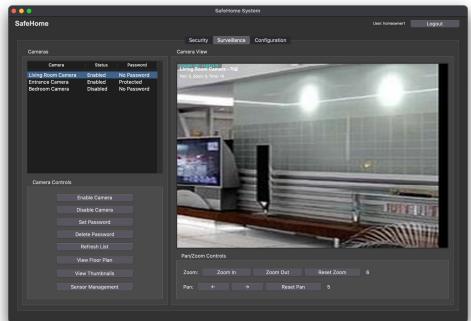
Actual Result :
Password is not changed

<Environment>

OS : Mac OS 15.6.1 / Python version : 3.14.0
pip list result (screenshot)

| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
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| anyio | 4.12.0 |
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| pyyaml | 6.0.3 |
| requests | 2.32.5 |
| safehome | 0.0.1 |
| starlette | 0.50.0 |
| typing-extensions | 4.15.0 |
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| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

4. Camera Zoom Blind Spot



<Bug Description>

Error Case:

Camera pan cannot cover border area over specific zoom level.

- 1.Move to [Surveillance], select [Living Room Camera] from [Cameras] list
- 2.Click [Zoom In] until zoom level becomes 6, click [→] until pan level is 5, which is rightmost.
- 3.Click [Zoom In] again to make zoom level 7, right end of camera view is cropped and cannot pan more.

Expected Result :

Every pixels of camera view should be able to view in all range of given zoom.

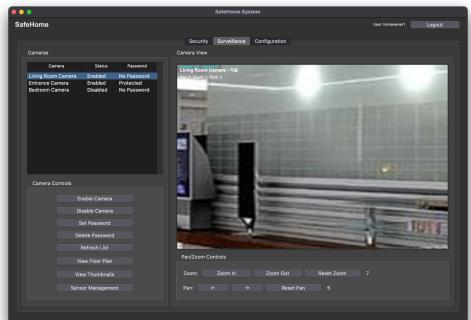
Actual Result :

Over zoom level 7, rightmost area is cropped and not accessible with pan.

<Environment>

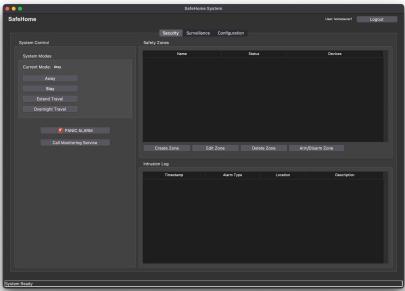
OS : Mac OS 15.6.1 / Python version : 3.14.0

pip list result (screenshot)



| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
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| certifi | 2025.11.12 |
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| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.124.0 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| platformdirs | 4.5.1 |
| pluggy | 1.6.0 |
| pre-commit | 4.5.0 |
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| pygments | 2.19.2 |
| pytest | 9.0.2 |
| pyyaml | 6.0.3 |
| requests | 2.32.5 |
| safehome | 0.0.1 |
| starlette | 0.50.0 |
| typing-extensions | 4.15.0 |
| typing-inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

5. Log Exposure



<Bug Description>

Error Case :

Log message area is exposed on resize.

- 1.Resize window by pulling border of window or double click title bar to make it fill the screen

Expected Result :

Log area should not be exposed to end user.

Actual Result :

Log area appears on window resize

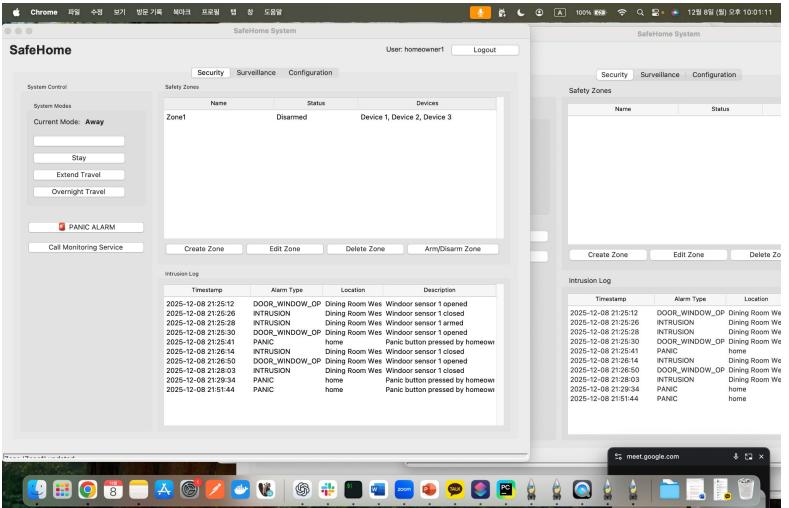
<Environment>

OS : Mac OS 15.6.1 / Python version : 3.14.0

pip list result (screenshot)

| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
| annotated-types | 0.7.0 |
| anyio | 4.12.0 |
| certifi | 2025.11.12 |
| cfgv | 3.5.0 |
| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.124.0 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| platformdirs | 4.5.1 |
| pluggy | 1.6.0 |
| pre-commit | 4.5.0 |
| pydantic | 2.12.5 |
| pydantic-core | 2.41.5 |
| pygments | 2.19.2 |
| pytest | 9.0.2 |
| pyyaml | 6.0.3 |
| requests | 2.32.5 |
| safehome | 0.0.1 |
| starlette | 0.50.0 |
| typing-extensions | 4.15.0 |
| typing-inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

6. Dose not sync data



<Bug Description>

Error Case:

1. Open multiple web clients
2. Zone updates made in one client
3. Check synchronized with the others.

Expected Result: Other users should see the zone changes within a few seconds.

Actual Result: Users must log out and log back in to see the updated zone information.

<Environment>

OS : MacOS 15.0.1,

Python version : 3.14

pip list result (screenshot)

| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
| annotated-types | 0.7.0 |
| anyio | 4.11.0 |
| certifi | 2025.11.12 |
| cfgv | 3.4.0 |
| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.121.2 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| pip | 25.3 |
| platformdirs | 4.5.0 |
| pluggy | 1.6.0 |
| pre_commit | 4.4.0 |
| pydantic | 2.12.4 |
| pydantic_core | 2.41.5 |
| Pygments | 2.19.2 |
| pytest | 9.0.1 |
| PyYAML | 6.0.3 |
| requests | 2.32.5 |
| sniffio | 1.3.1 |
| starlette | 0.49.3 |
| typing_extensions | 4.15.0 |
| typing-inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |

| Package | Version |
|-----------|---------|
| colorama | 0.4.6 |
| coverage | 7.12.0 |
| iniconfig | 2.3.0 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| pip | 25.3 |
| pluggy | 1.6.0 |
| Pygments | 2.19.2 |
| pytest | 9.0.1 |

7. Camera Time Display Issues

<Bug Description>

The screenshot shows the SafeHome application's user interface. At the top, there are tabs for 'User: homeowner1' and 'Logout'. Below the tabs, there are three main sections: 'Cameras', 'Security', and 'Surveillance'. The 'Surveillance' tab is currently active. In the 'Cameras' section, there is a table with three rows: 'Living Room Camera' (Enabled, No Password), 'Entrance Camera' (Enabled, Protected), and 'Bedroom Camera' (Disabled, No Password). In the 'Camera View' section, there is a live feed of a living room. The status bar at the bottom of the screen displays 'Pan: 5, Zoom: 1, Time: 54'.

Error Case :

1. Launch the application and log in
2. Navigate to Surveillance tab
3. Select any camera from the camera list
4. Observe the "Time: X" value displayed in the camera view
5. Wait for 10+ seconds without clicking "Zoom In" button

Expected Result :

- Time values should update automatically every second in real-time, OR
- Display actual current timestamp, OR
- Remove the Time field entirely if it serves no user purpose

Actual Result :

- Time value does not update automatically - only refreshed when user clicks Zoom/Pan buttons
- Time counter resets from 99 to 0 unexpectedly
- Displays meaningless internal counter (0-99) that users cannot understand
- Users may think camera feed is frozen or malfunctioning

<Environment>

OS : macOS 26.0 (Tahoe),

Python version : 3.14.1

pip list result (screenshot)

B. Control Panel User Guide

1. Possible to select a non-existent zone

<Bug Description>

Error Case:

1. Assert that no zones exist.
2. The control panel reports the away (4) and stay (5) operations for zone 1 as successful.
3. This behavior changes the mode for the entire floor.
4. The user manual contains no explanation about the scope of mode application.

Expected Result: The system should clearly indicate that zones are not supported, or it should properly support zone configuration. Additionally, such operations should not affect device state without proper clarification.

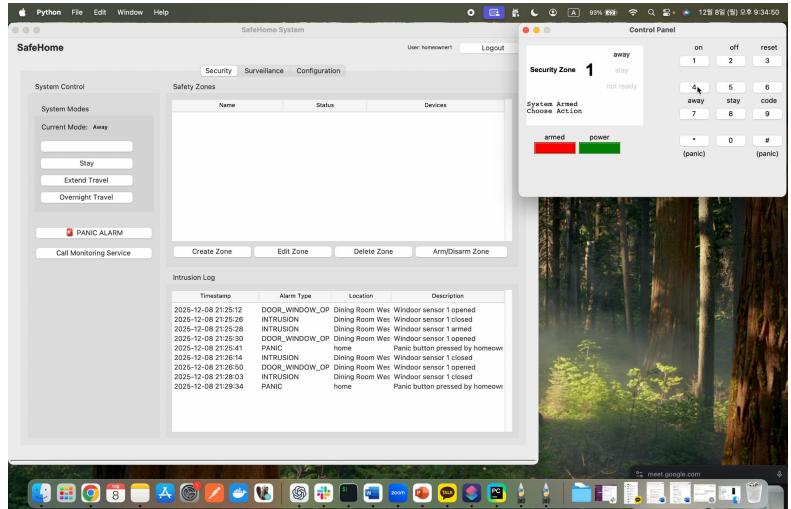
Actual Result: The operation for zone 1 is displayed as a floor-wide mode change, although it does not affect the actual device state.

<Environment>

OS : Mac 15.0.1

Python version : 3.14

pip list result (screenshot)



| Package | Version |
|--------------------|------------|
| annotated-doc | 0.0.4 |
| annotated-types | 0.7.0 |
| anyio | 4.11.0 |
| certifi | 2025.11.12 |
| cfgv | 3.4.0 |
| charset-normalizer | 3.4.4 |
| click | 8.3.1 |
| coverage | 7.12.0 |
| distlib | 0.4.0 |
| fastapi | 0.121.2 |
| filelock | 3.20.0 |
| h11 | 0.16.0 |
| httpcore | 1.0.9 |
| httpx | 0.28.1 |
| identify | 2.6.15 |
| idna | 3.11 |
| iniconfig | 2.3.0 |
| nodeenv | 1.9.1 |
| packaging | 25.0 |
| pillow | 12.0.0 |
| pip | 25.3 |
| platformdirs | 4.5.0 |
| pluggy | 1.6.0 |
| pre_commit | 4.4.0 |
| pydantic | 2.12.4 |
| pydantic_core | 2.41.5 |
| Pygments | 2.19.2 |
| pytest | 9.0.1 |
| PyYAML | 6.0.3 |
| requests | 2.32.5 |
| sniffio | 1.3.1 |
| starlette | 0.49.3 |
| typing_extensions | 4.15.0 |
| typing-inspection | 0.4.2 |
| urllib3 | 2.6.0 |
| uvicorn | 0.38.0 |
| virtualenv | 20.35.4 |