

Software Requirements

User:

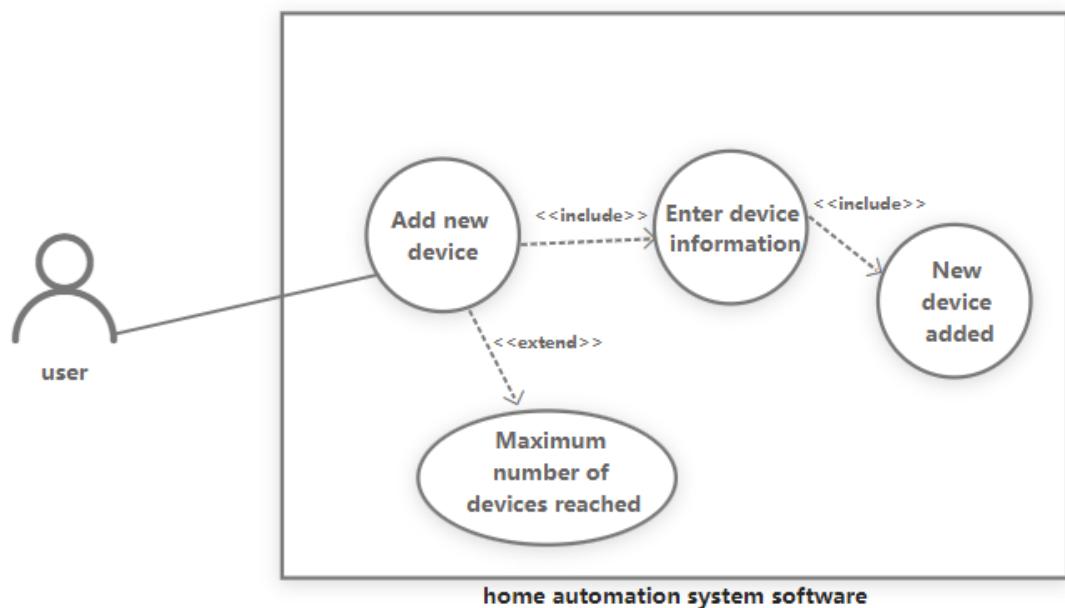
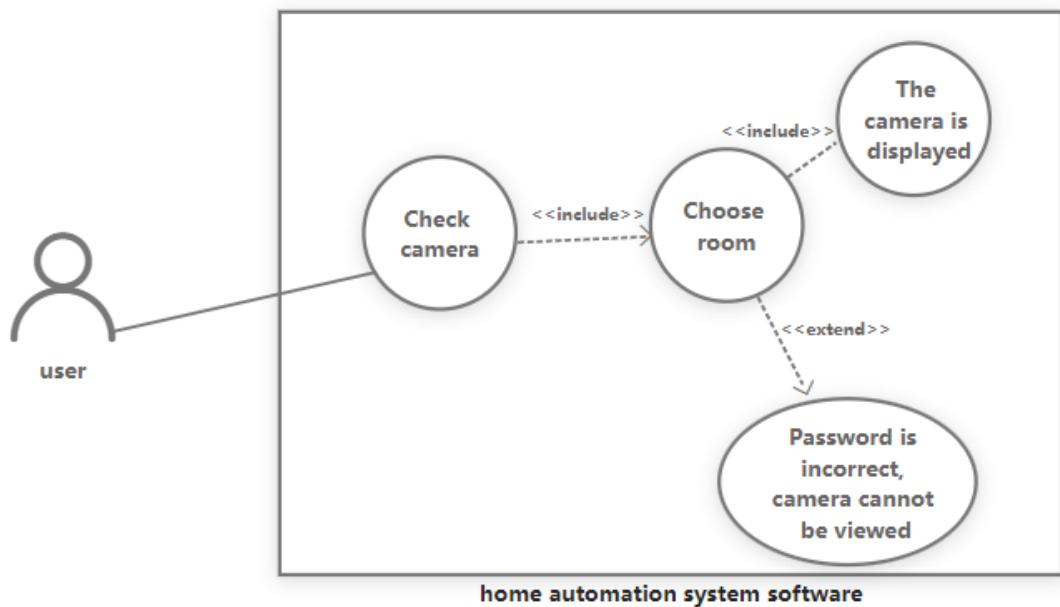
1. The web application allows the user to set alarms.
2. The web application allows the user to control the sockets.
3. The web application allows the user to command the lighting.
 - a. Lights turn on when there is movement, turn off when there is no movement.
 - b. After sunrise the lights turn off, after sunset the lights turn on.
 - c. Lights turn on or lights turn off according to the times predetermined by the user.
4. The web application allows the user to set the temperature and humidity.
5. The web application allows the user to be notified when there is a security problem.
 - a. If the fire, gas, or smoke detector detects danger.
 - b. If the motion detector detects unexpected motion.
 - c. If the flood detector detects a water leak.
6. The web application allows the user to view the cameras.
7. The web application allows the user to control the curtains.
 - a. Opening or closing the curtains according to the times predetermined by the user.
 - b. The curtains open after sunrise and close after sunset.
8. The web application allows the user to set alarms.
9. The web application allows the user to select the alarm sound.

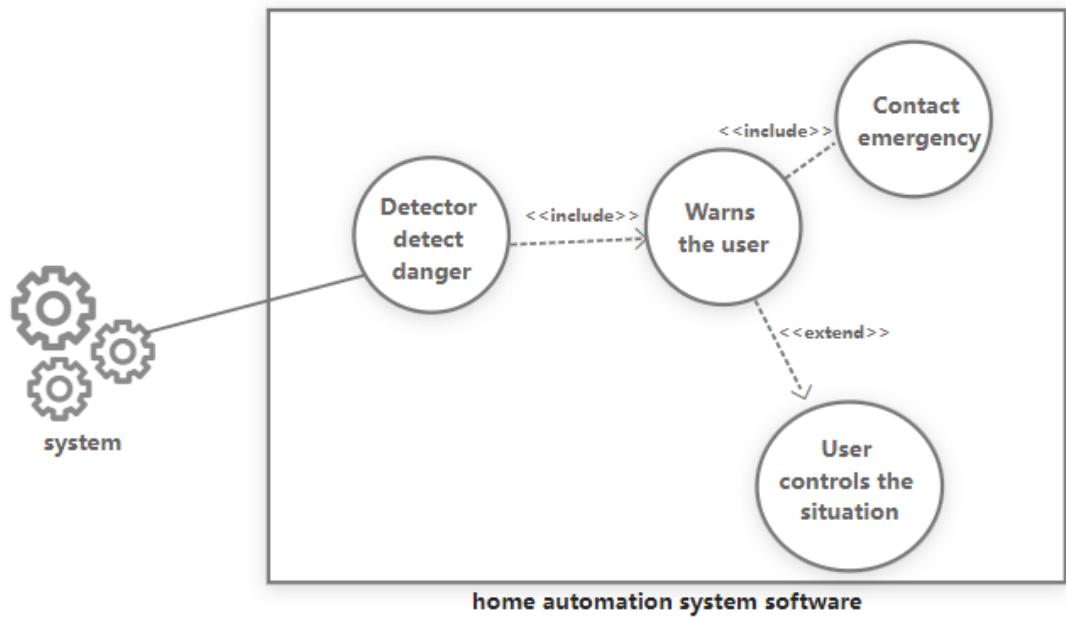
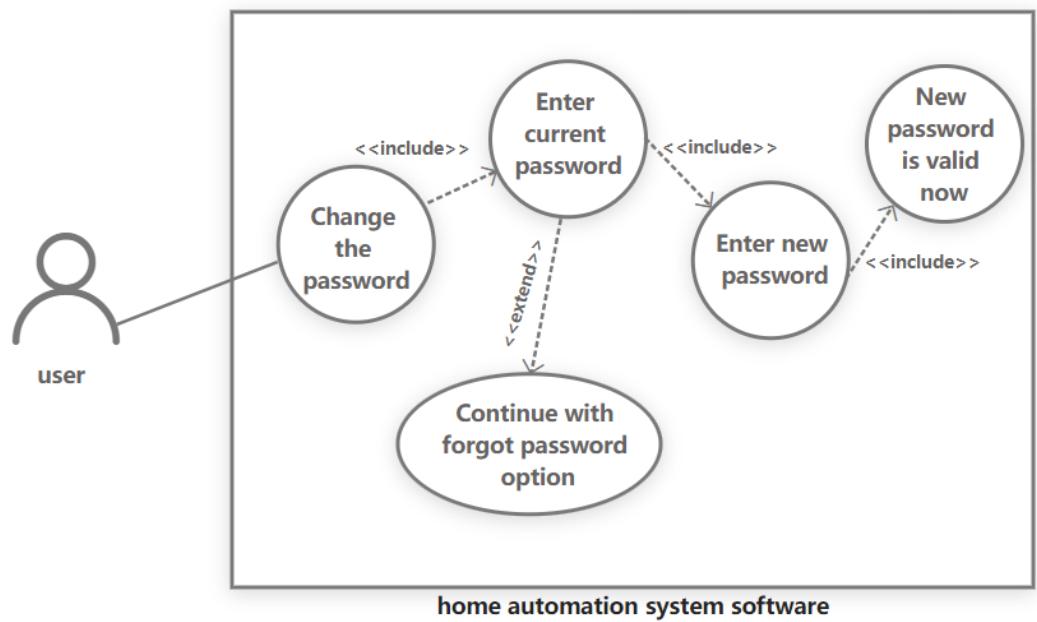
10. The web application allows the user to change their existing password.

System:

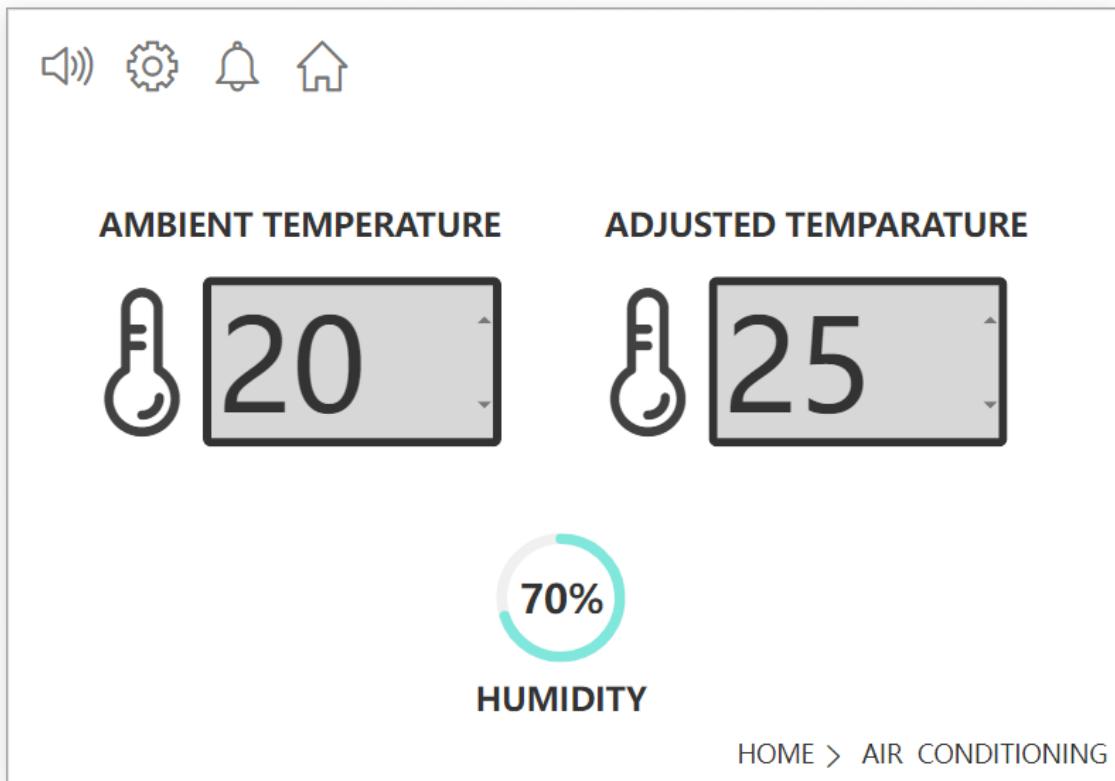
1. The web application allows the system to be managed from the control panel.
2. The web application allows the system to be protected by password.
3. The web application allows the system to add new devices.
4. The web application allows the system to be monitored and managed from the user's tablet or phone.
5. The web application allows the integration of the system with the sensors.

Possible Use Cases





Wireframes



A wireframe for a mobile application interface. At the top, there are four icons: a speaker (volume), a gear (settings), a bell (notifications), and a house (home). Below these are two sections: "AMBIENT TEMPERATURE" showing a thermometer icon and the number "20" in a large box, and "ADJUSTED TEMPARATURE" showing a thermometer icon and the number "25" in a large box. In the center is a circular progress bar with a teal arc indicating "70%". Below the progress bar is the word "HUMIDITY". At the bottom right, the text "HOME > AIR CONDITIONING" is displayed.

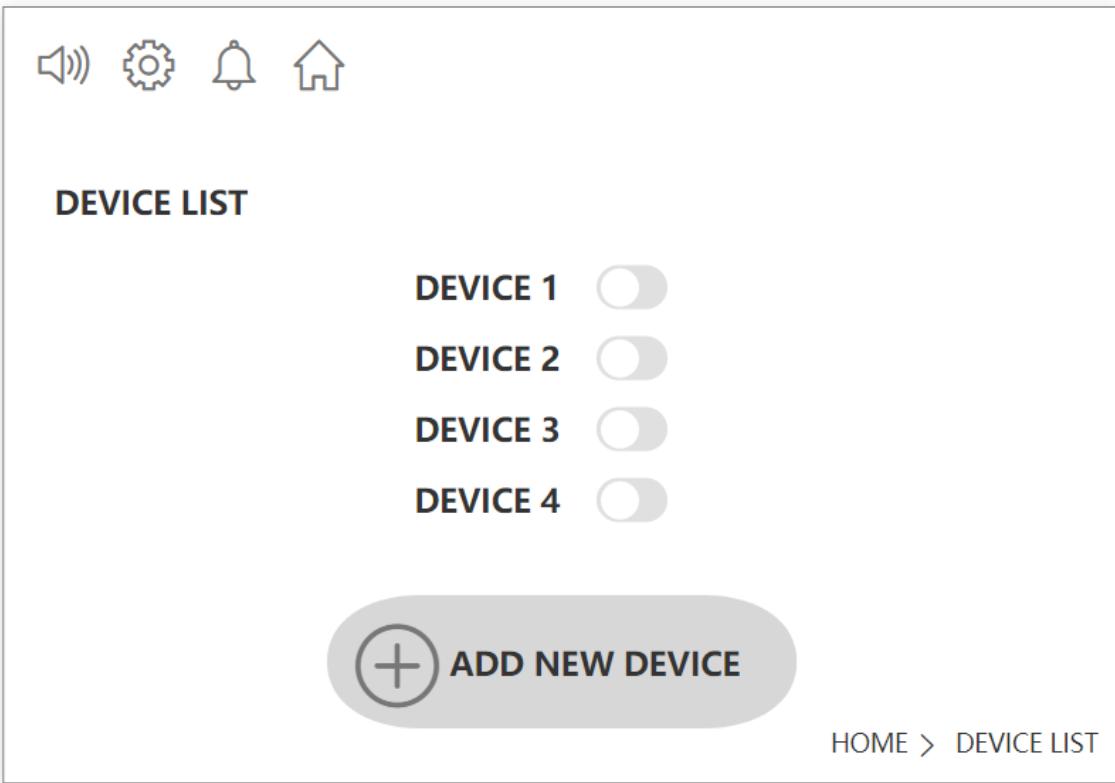
AMBIENT TEMPERATURE

ADJUSTED TEMPARATURE

70%

HUMIDITY

HOME > AIR CONDITIONING



A wireframe for a mobile application interface. At the top, there are four icons: a speaker (volume), a gear (settings), a bell (notifications), and a house (home). Below these is a section titled "DEVICE LIST" containing four entries: "DEVICE 1", "DEVICE 2", "DEVICE 3", and "DEVICE 4", each followed by a toggle switch. At the bottom is a large, rounded rectangular button with a plus sign inside and the text "ADD NEW DEVICE". At the bottom right, the text "HOME > DEVICE LIST" is displayed.

DEVICE LIST

DEVICE 1

DEVICE 2

DEVICE 3

DEVICE 4

ADD NEW DEVICE

HOME > DEVICE LIST



PLEASE ENTER YOUR PASSWORD



ROOMS

CURTAIN

LIGHTING

CAMERA

**AIR
CONDITIONING**

DEVICE LIST



FIRE DETECTED



**THERE IS A POSSIBLE FIRE DETECTED
IN THE KITCHEN**

Would you like to contact emergency
services?

YES

NO