INTEGRATED HOSPICE CARE SYSTEM

T2, Group 5
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Background

In today's hospice settings, there is a shortage of caregivers available around the clock to provide continuous care for the elderly. This shortage poses challenges in monitoring vital statistics such as heart rate and blood oxygen levels consistently. Additionally, the lack of constant supervision makes it difficult to assist the elderly with their daily activities, such as using the restroom.

All 3 M5stack will be connected using EspNow, and an emergency alarm will be activated in case of fall in toilet.

Problems & Solution

The Elderly are prone to falls especially in private areas like toilets where the floor is commonly wet.

The elderly will need a comfortable and healthy environment to live in

The elderly are susceptible to illnesses at old age; monitoring heart rate, SpO2 and body temp at night is crucial.

Earth - for floor wetness

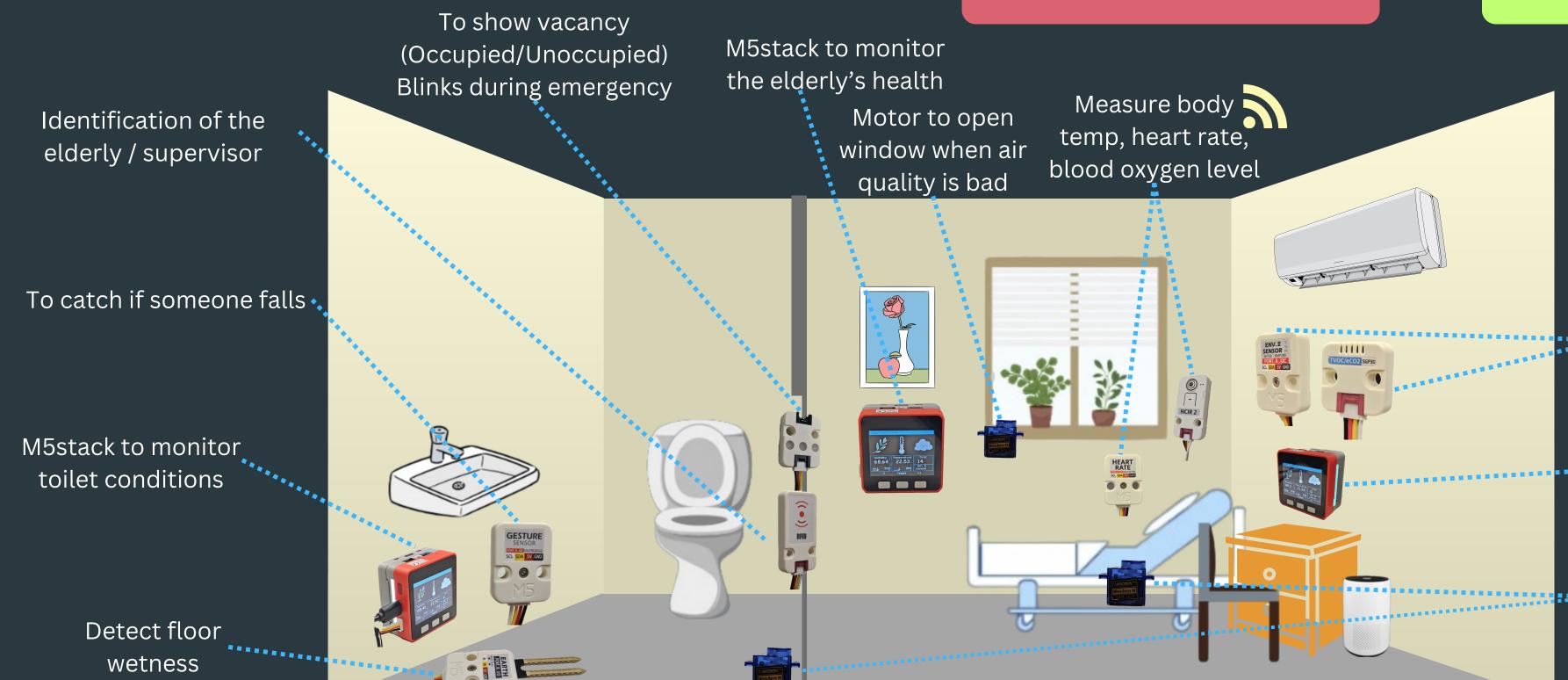
RFID - identification

RGB - Occupied/ unoccupied

Gesture - fall detection

Env ii - Measure room temp and humidity
TVOC - Measure air quality

NCIR 2 - Body temp HEART - Measure Heart rate and blood oxygen





Measure room temp, humidity, and air quality

M5stack to monitor the room's environment

Motors to lock toilet when the floor is wet // lift up bed