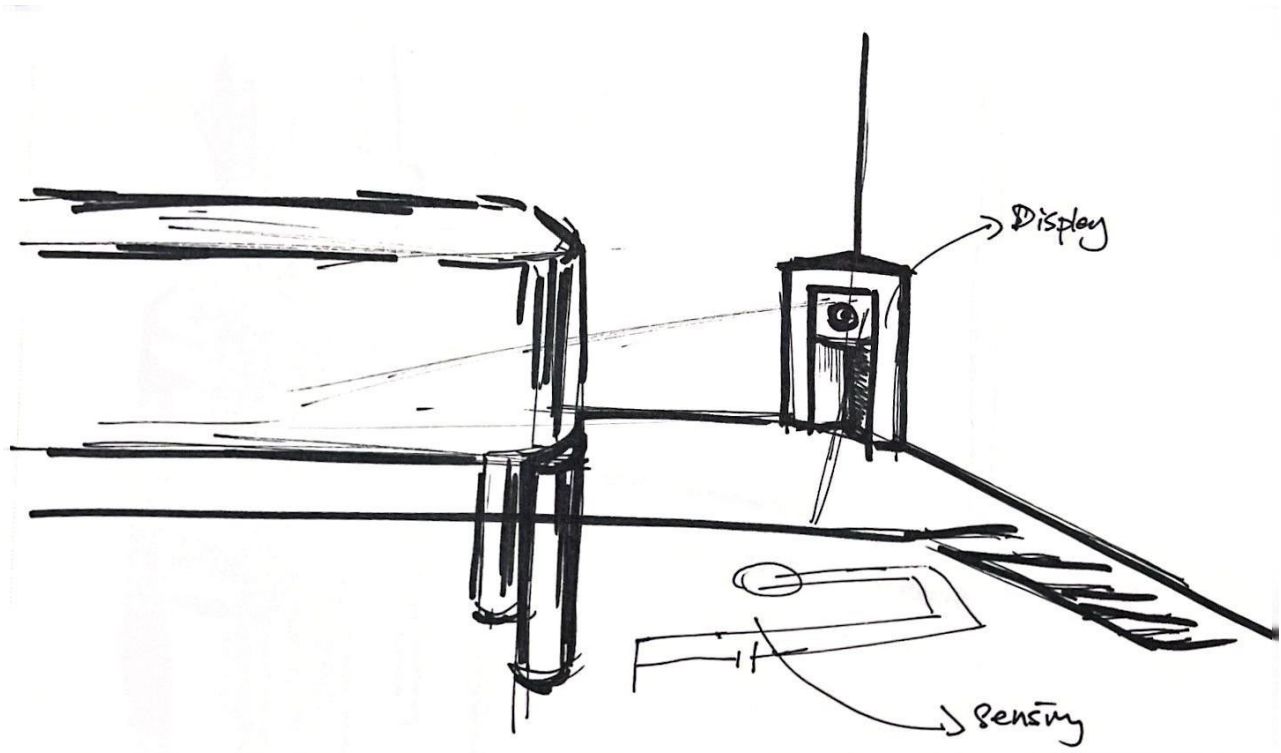


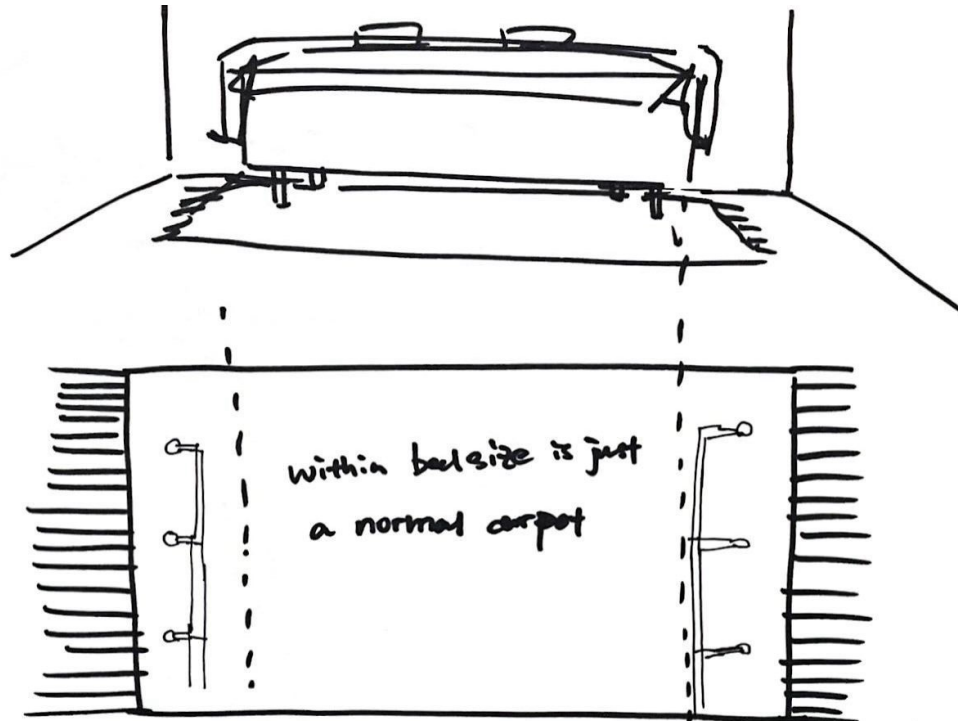
514A-FinalProject

Section 1



A system to provide safe, low-brightness lighting when users get out of bed at night. One sensing device shaped like a carpet and one displaying device can be place at the corner of the room to light the path for user.

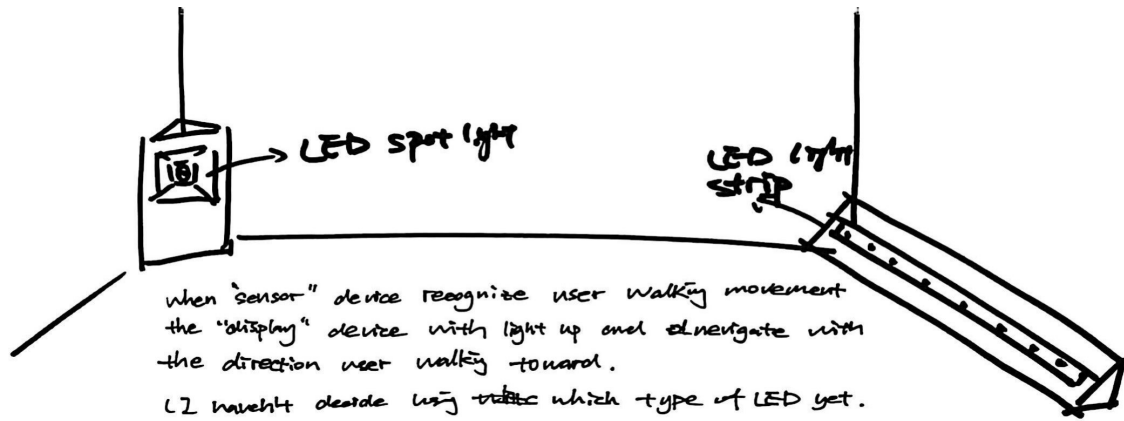
Section 2



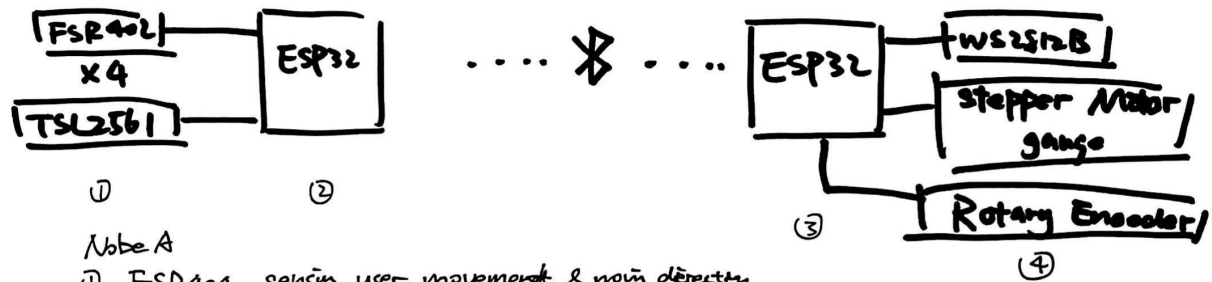
use multiple FSR sensor sensing user movement and moving ~~of~~ direction.
Amount depend on Voltage & budget. >c

- FSR
- ESP32
- Resistors..
- LED Light
- TSL 2561 (Luminosity Sensor).

Section 3



Section 4



Node A

- ① FSR404 sensing user movement & moving direction
- TSL2561 sensing light level

- ② ESP32 translate sensing data to command for display device

communicate with bluetooth

Node B

- ③ ESP32 send command from Node A to each component

WS2812B Light up

Stepper motor gauge show light level

rotary encoder, option for user adjust light level manually.