

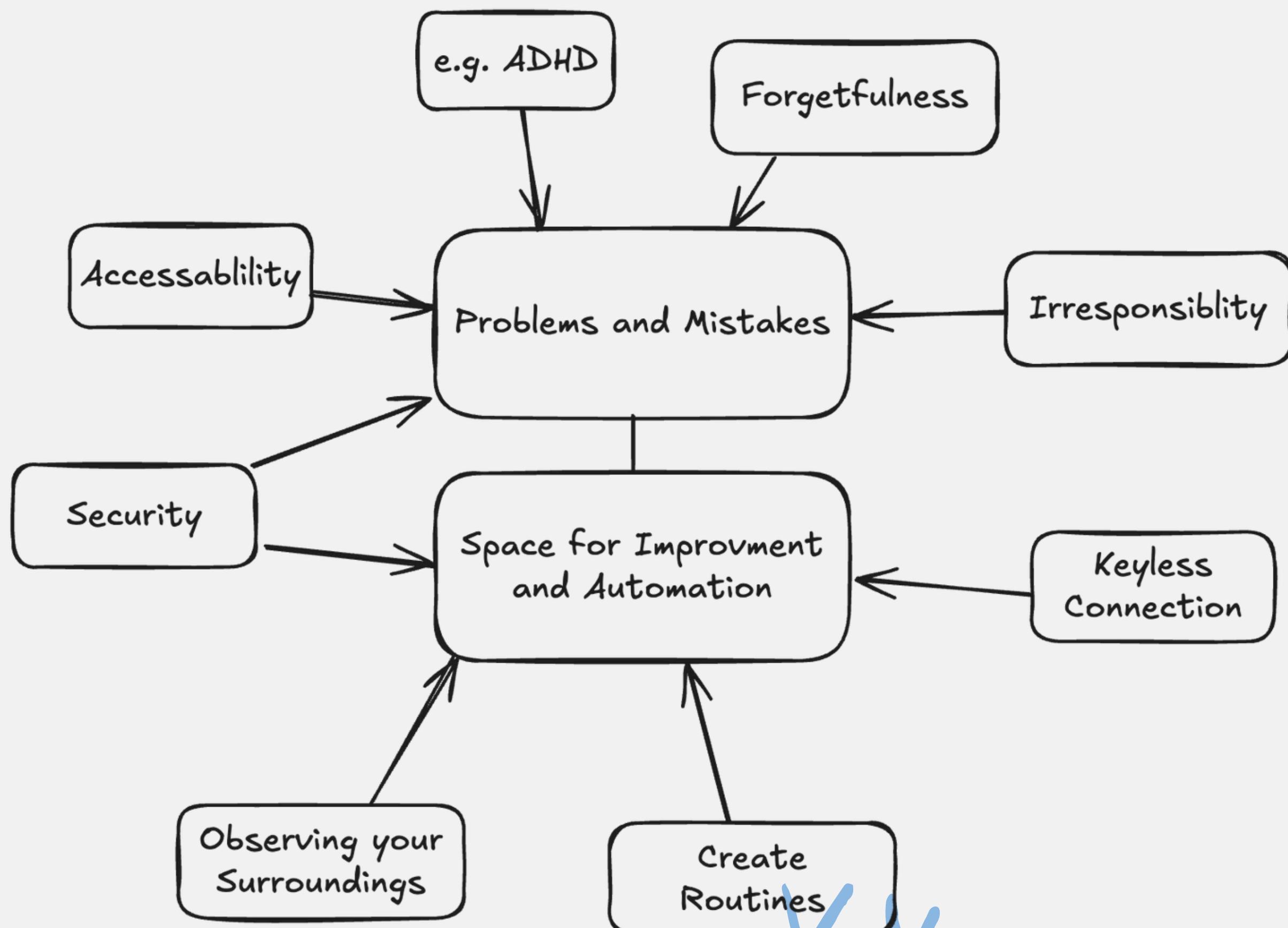
Smart Carpet

Amiin Najjar

Anton Rockenstein

Bernard Georges

Main Problems



OUR GREAT SOLUTION



SOLVED



SmartCarpet

- > Pin code lock
- > Temperature, humidity, and pressure control
- > Online connectivity, Home-Integration
- > Real-time bus schedule updates (so you never miss your ride)
- > And many more potential features coming in the future!

What was done?

- > Connected all Components with the ESP and made them accessable via code
- > Display all the information we need (Next buses, temperature, pressure and humidity inside and outside temperature)
- > Home Assistant App where you can view all the information and integrate all your smart house.
- > Solved Problems :)

What is different?

- > Switch zigbee to MQTT
- > E-Paper -> OLED display
- > Speaker & Amplifier -> piezo speaker
- > button matrix -> pressure sensor

What problems did you encounter & how did you overcome them?

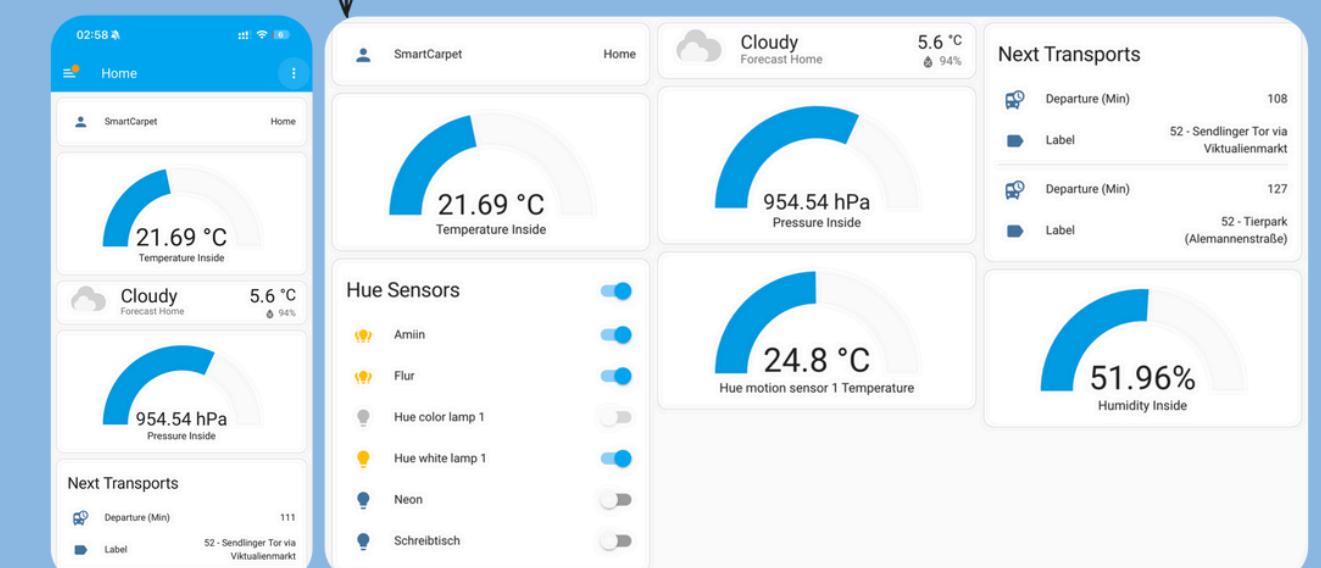
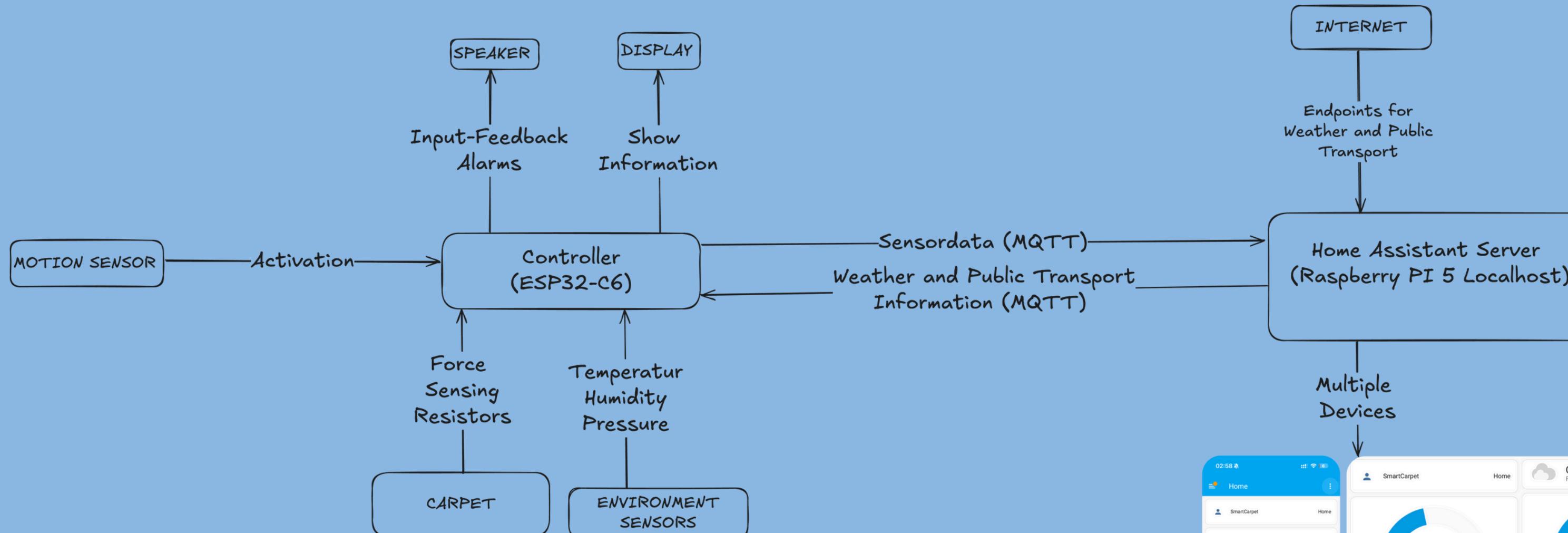
- > ESP constantly breaking (lack of debugging possibilities)
- > Organizing all the components in the same board
- > Components with similar needs

Who did what?

- > Smart Carpet Creation (ALL)
- > Actor 1 (Amiin)
- > Cameraman and editor (Anton)
- > Critic (Bernard)
- > Pray it works (ALL)



What Components are there?



Next Steps



01

- > Better wiring, more stable connections
- > Better case
- > Code Alarm and pin solutions

02

- > Add some more sensors and features (add distance to detect which direction person is moving)

03

- > Going to market

04

- > Being great

Thank you
very much!

