

iHome: Your Smart Home Robot

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3/7/2024

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Introduction

- The "iHome" project aims to develop a smart home system powered by OpenAI, integrating modern automation and intelligent interaction capabilities. The system features an interactive robot, various environmental and safety sensors, and a user-friendly mobile application for smooth control and monitoring.

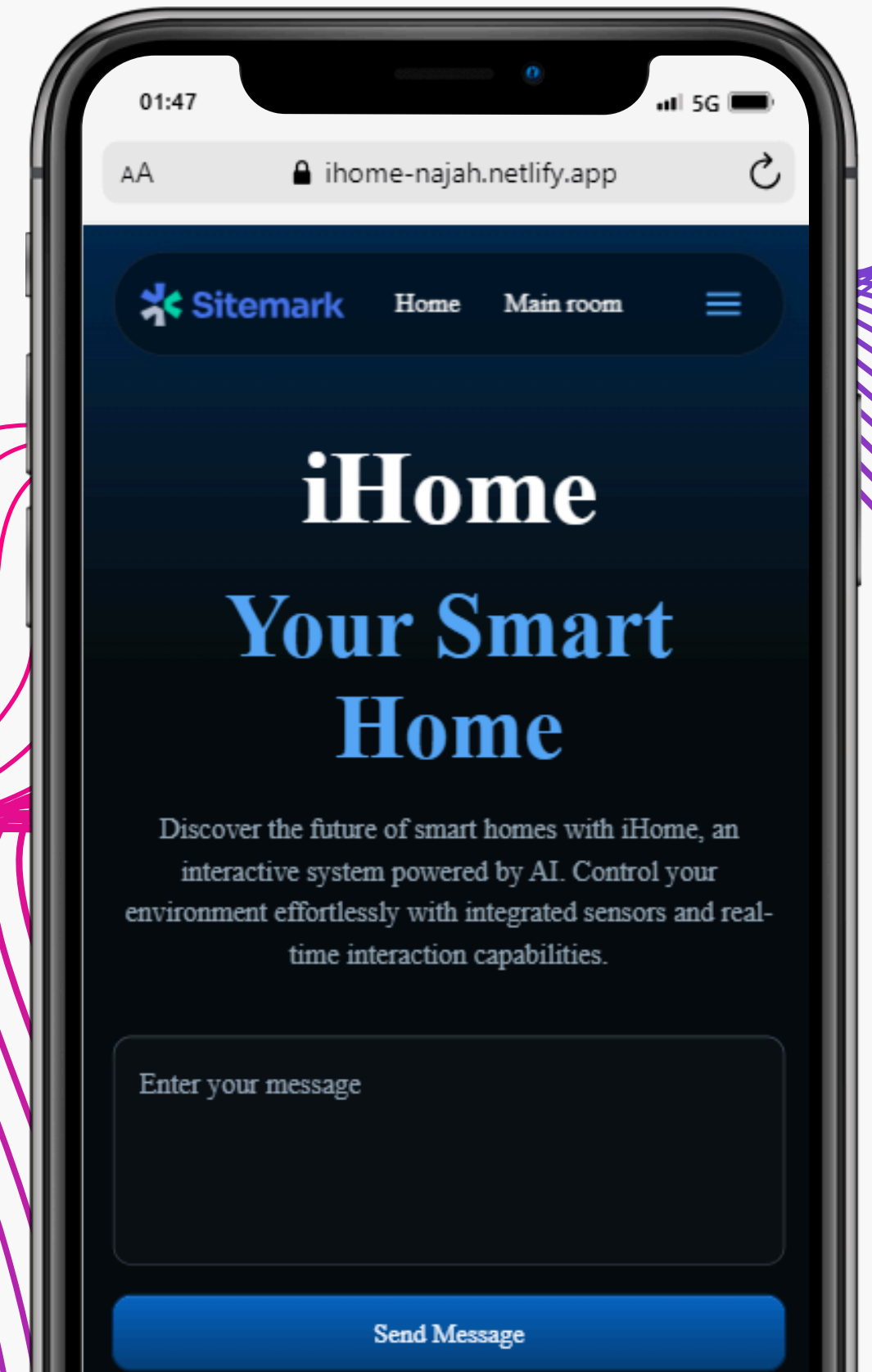


Primary Goals

Design an Interactive Robot

Integrate Control Sensors (For Home Safety)

Provide real-time access to the smart home system remotely



Design an Interactive Robot

Natural



Happy



Wonder

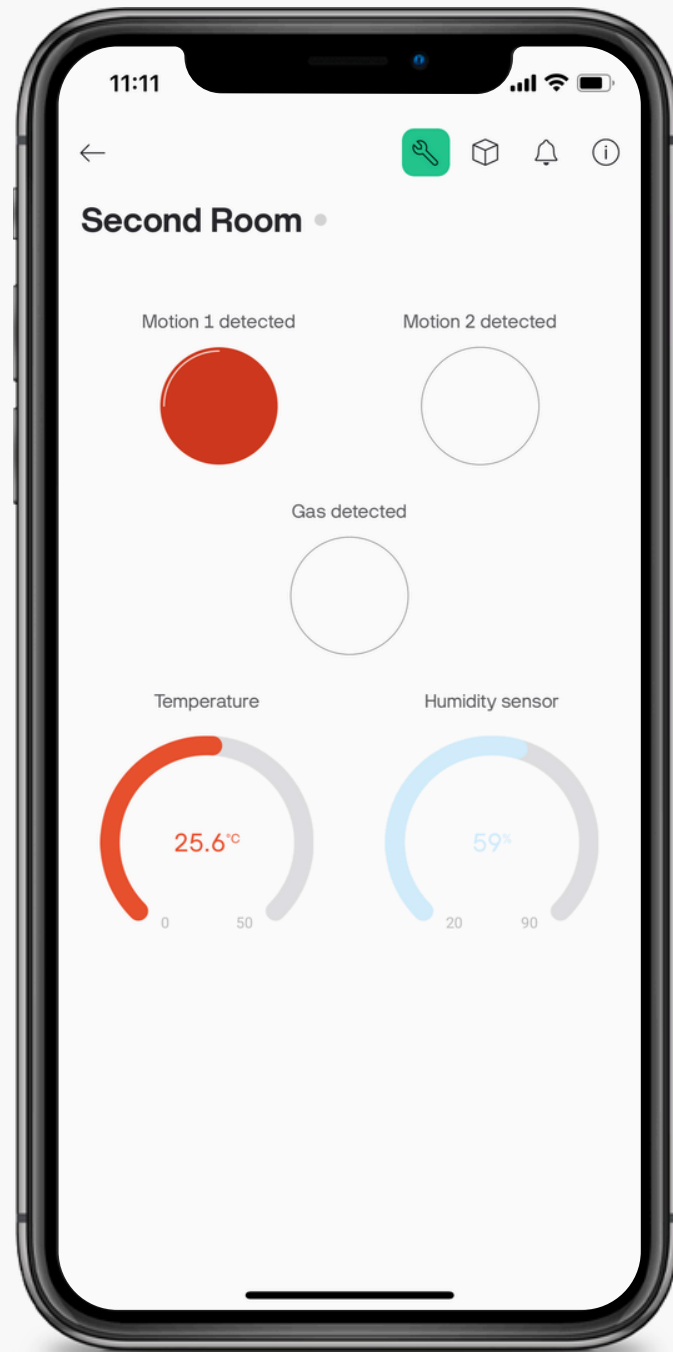


Angry

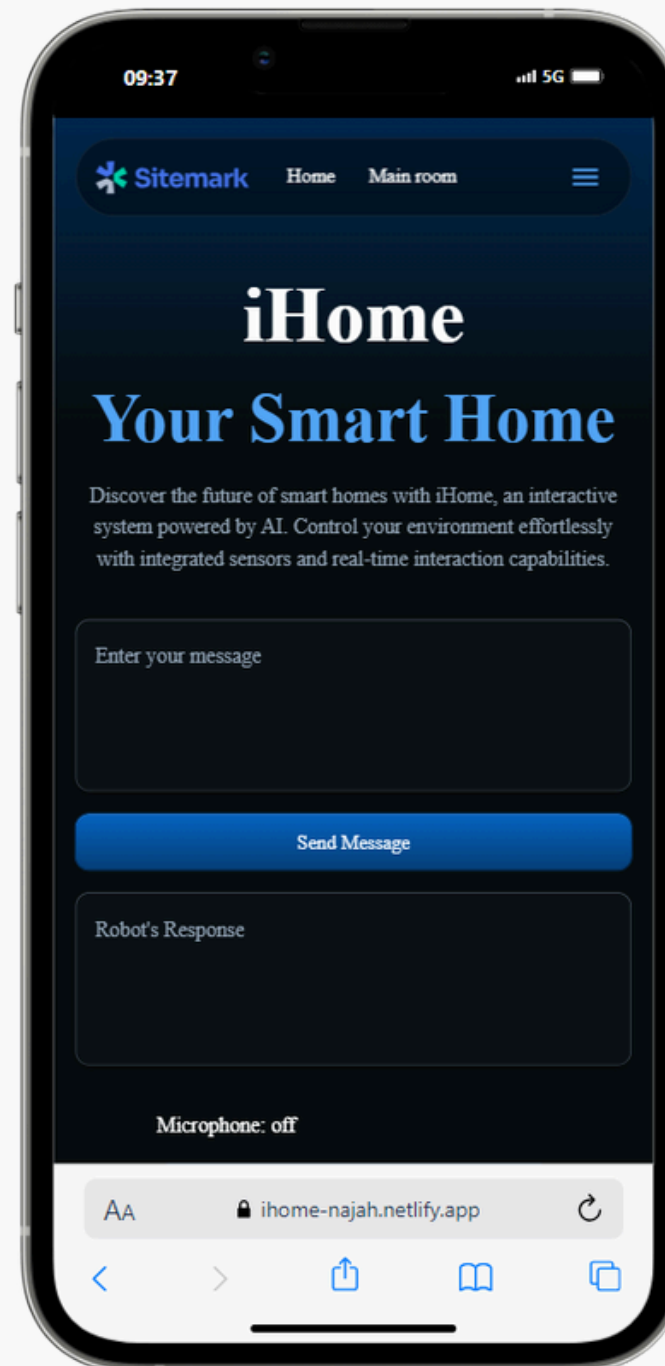


Provide real-time access to the smart home system remotely

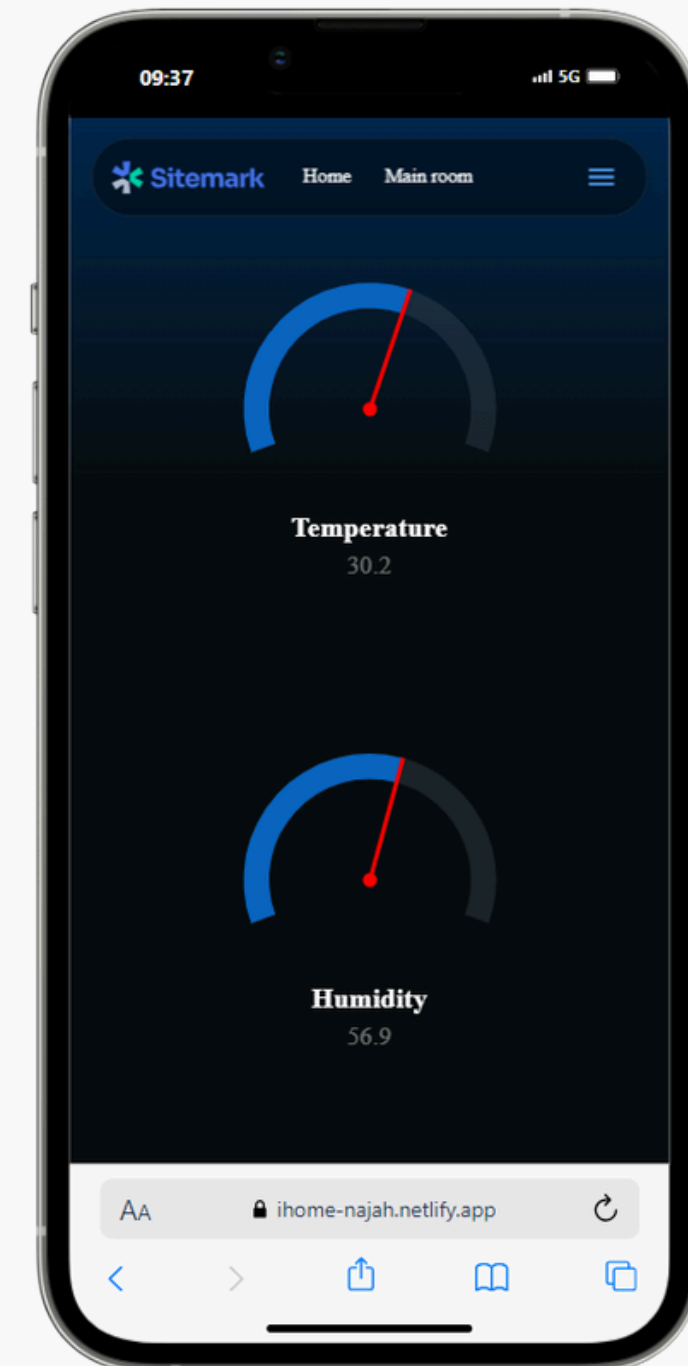
Blynk App



Website Home



Website main room



Constraints

→ **SMOOTH CONNECTIVITY**

→ **USER-FRIENDLY INTERFACE**

→ **COST AND RESOURCE LIMITATIONS**



Features

INTERACTIVE ROBOT WITH EMOTION DISPLAY

ENVIRONMENTAL MONITORING

WEBSITE INTEGRATION

MOBILE APP

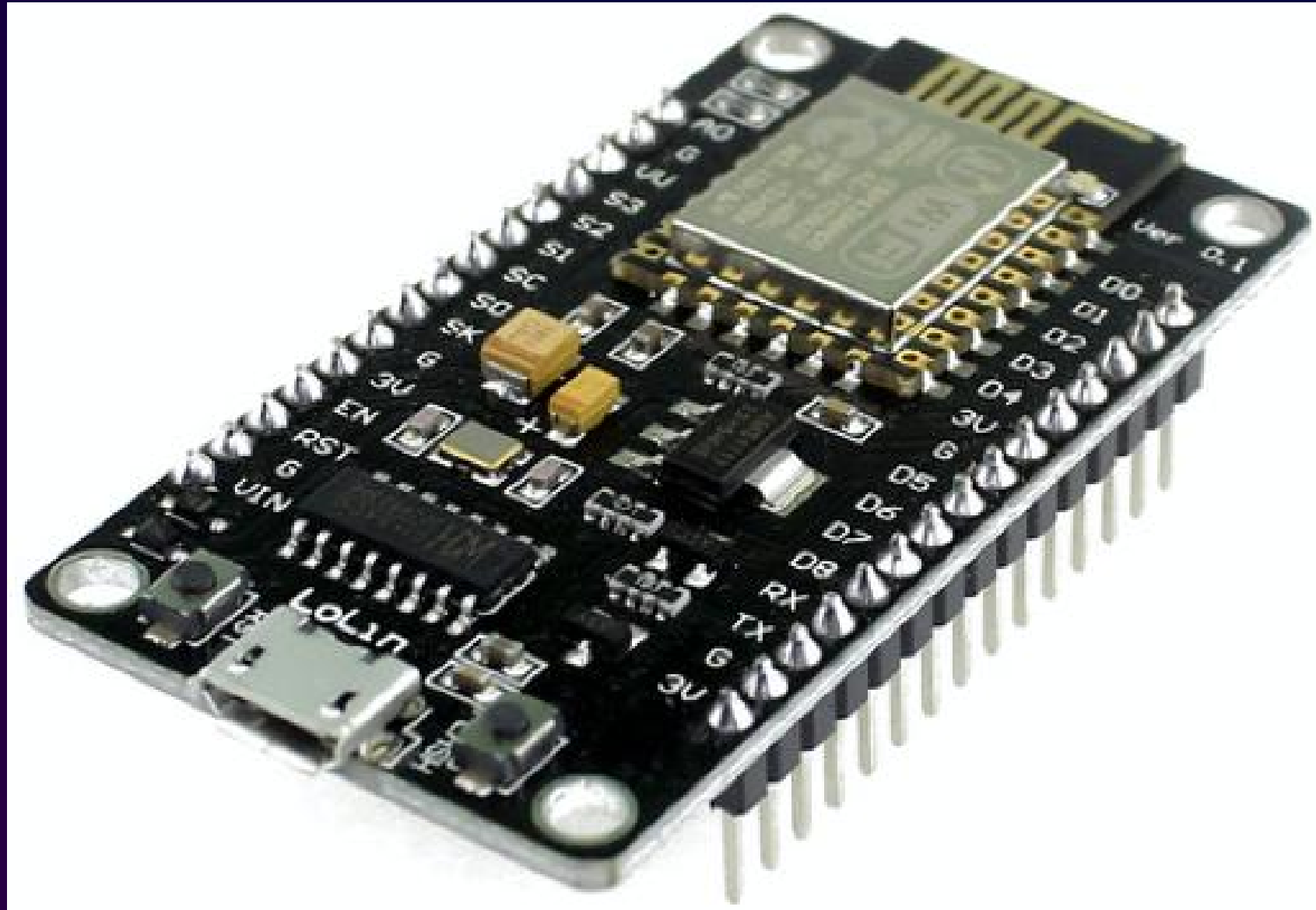
Hardware Parts



Raspberry PI is the brain in our project, so its an ideal central hub for managing the complex interactions and functionalities required in an advanced smart home system like iHome.

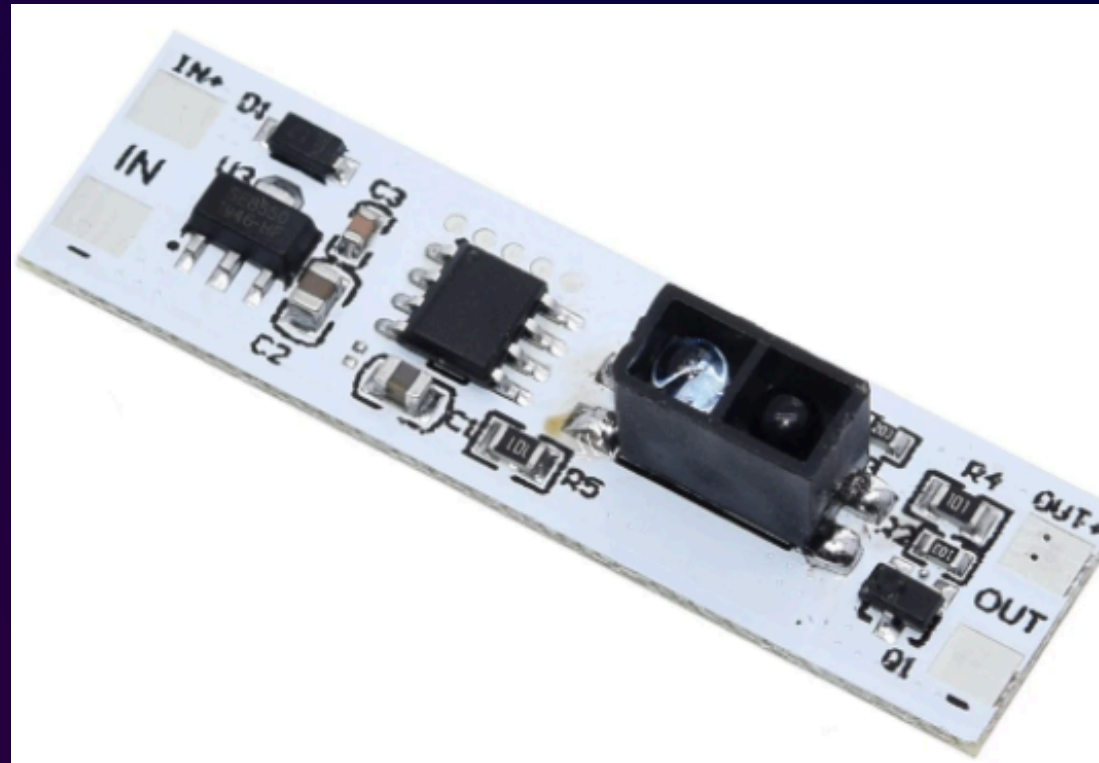
Raspberry PI

Hardware Parts

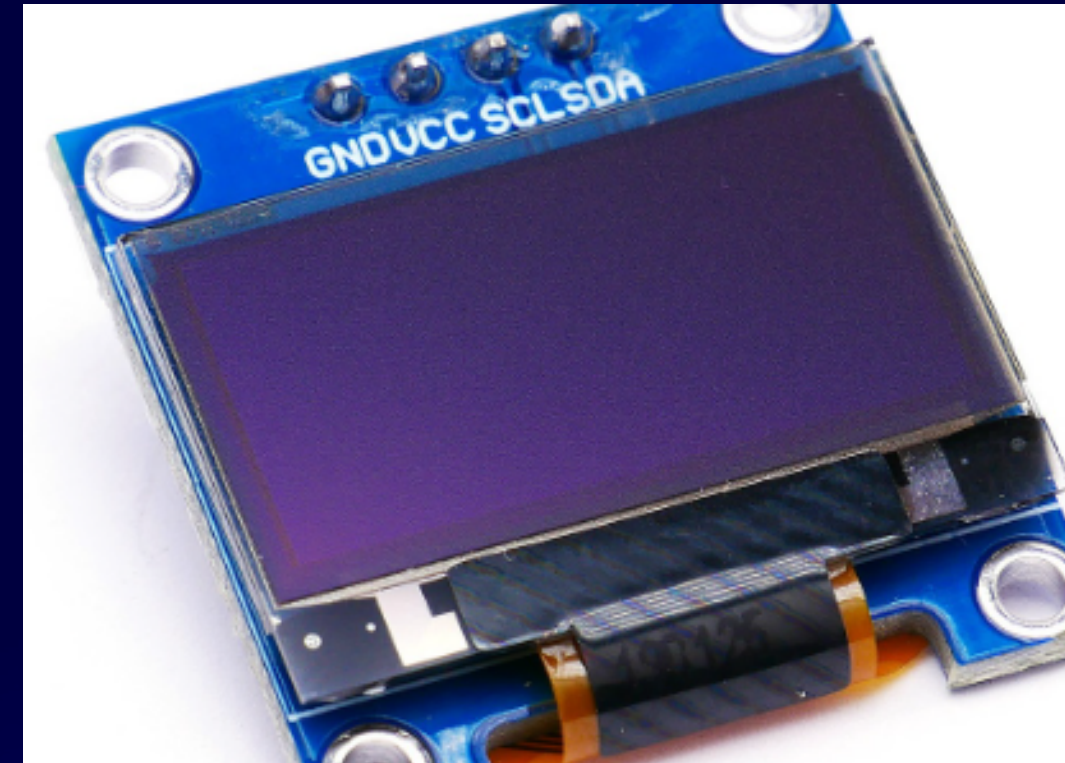


Esp8266

Hardware Parts



Sweep hand sensor



OLED Display



RGB Led

Hardware Parts



Mini Mic



Mini speakers

Hardware Parts



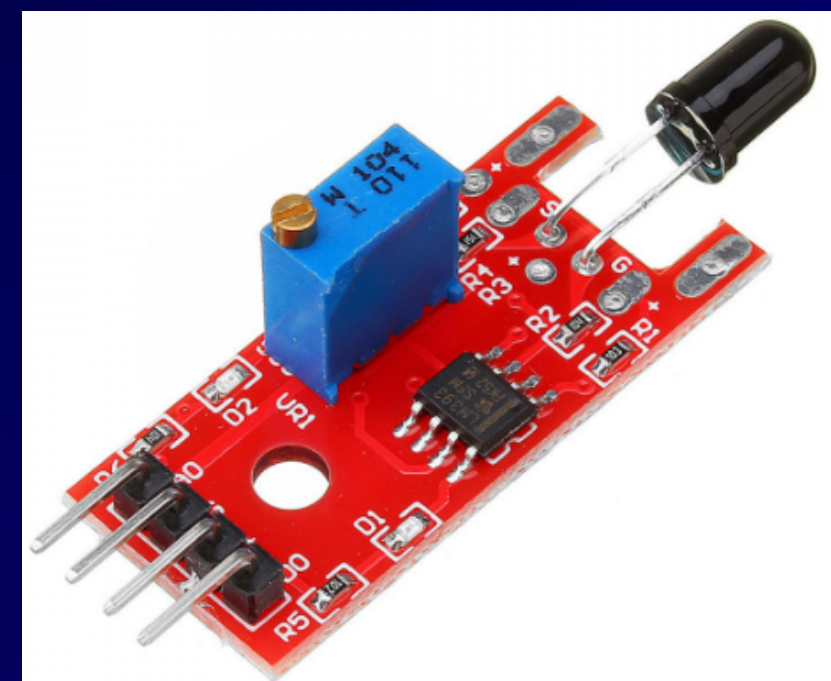
DHT22 Sensor



MQ-5 gas Sensor



PIR motion Sensor



Flame Sensor

Future Work

Support multiple languages

Scalability and Compatibility

Improve response of robot



THANK YOU

If you have any question, you can ask our robot