0517 TEAMB

최지훤, 정종현, 김준서, 임승현

1

Robotics

Week12 진행상황

Improving Sort tracking service -> Higher performance

Emergency detection check

Planning final demo scenarios

Sort tracking Improvement

Clarify the sort tracking algorithm. . .

Main purpose: Interaction with human while strolling!

Make final improvements to use in final presentations.

Keep track of Human by "index" (sort tracking).

Identification: Identify nearest person as a "USER"

Identification process when we lost "USER".

Stop when Human $\langle - \rangle$ Robot distance more than 5m.

Emergency detection test

Test to ensure we detect several flipping poses (emergency detections)



Planning Final Demo video scenarios

Idle mode in indoor nursing home map.

Petrol(Move around) the nursing home and detect if there's an emergency situations. + APP SERVICE

Strolling service in outdoor map.

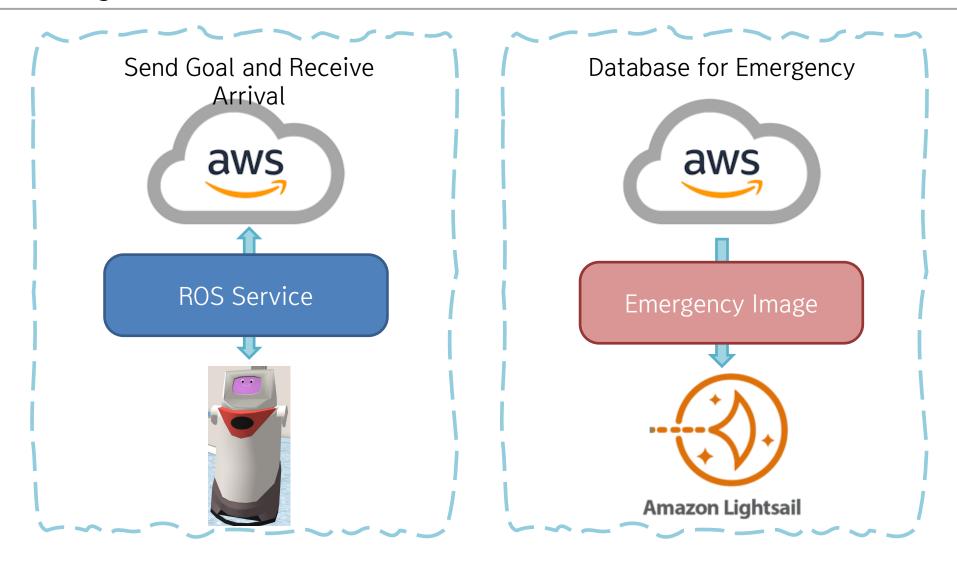
Show videos of Tracking camera while walking, emergency call when USER is out of sight

+ Overall App functions

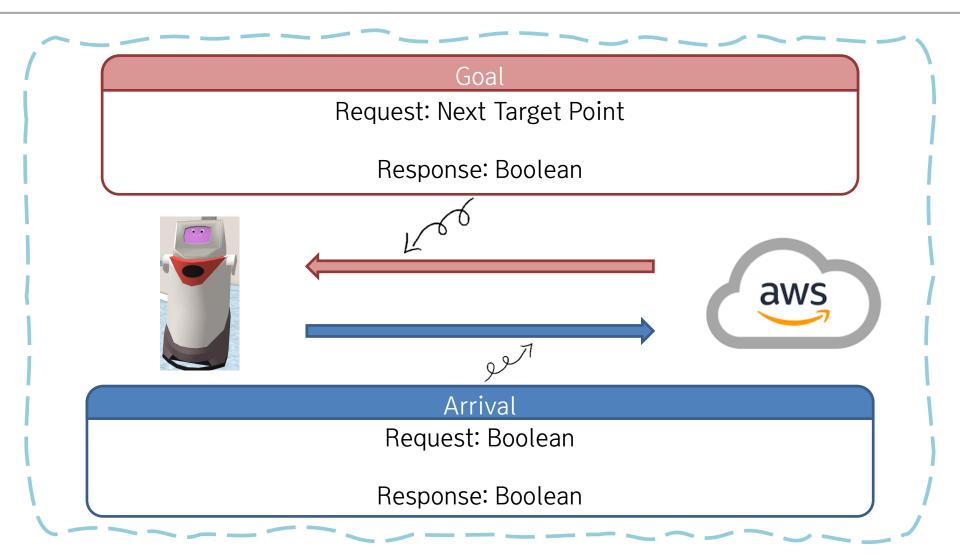
2

Backends

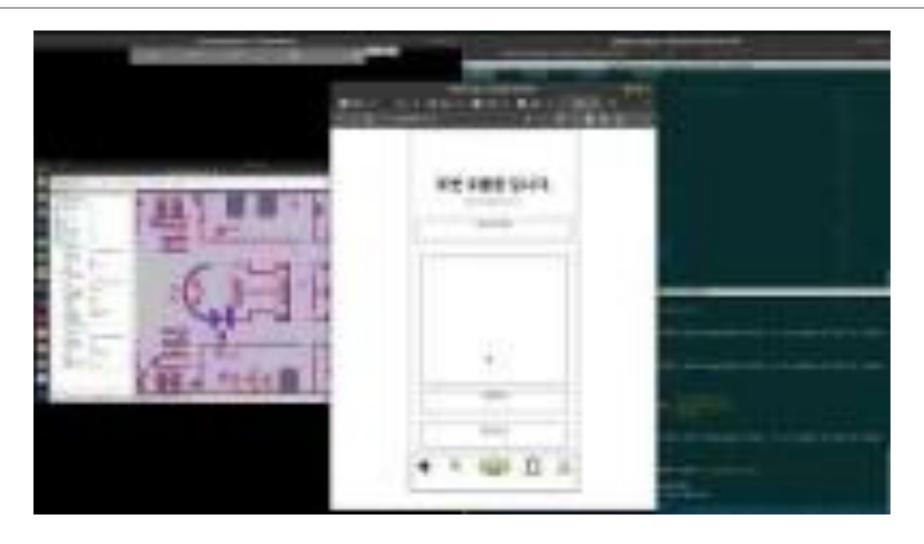
Progress



Send Goal and Receive Arrival



Send Goal and Receive Arrival: Demo



Sebot and Application

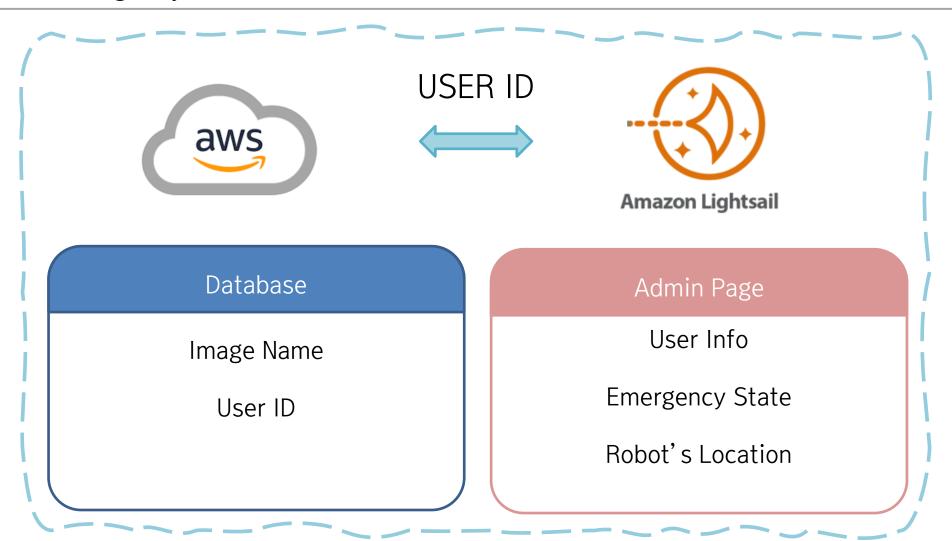




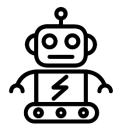
Application



Emergency Database



Future Plans









Integration

- Test Whole Service
- Connect With Admin App

3

Front-End

Websocket context

```
export const socket = socketIo(string('http://127.0.0.1:5000'), export const socket.on("connect", () => {
    console.log("socket server connected.");
});

socket.on("disconnect", () => {
    console.log("socket server disconnected.");
});

websocket

New.js

NotFound.js

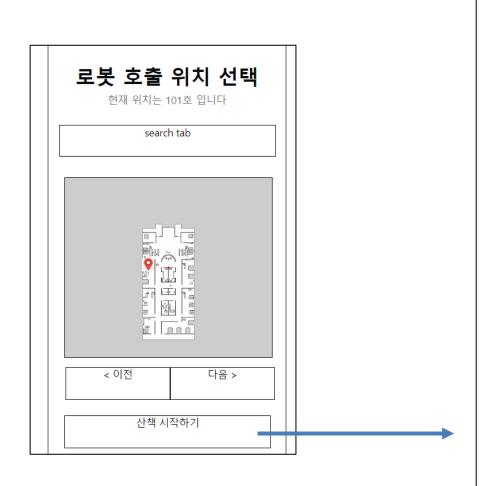
Nowcalling.js
```

Use single websocket channel via context

Call robot



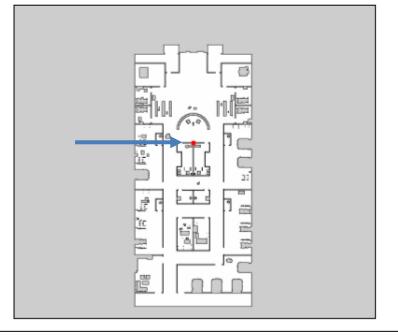
Call robot(2)



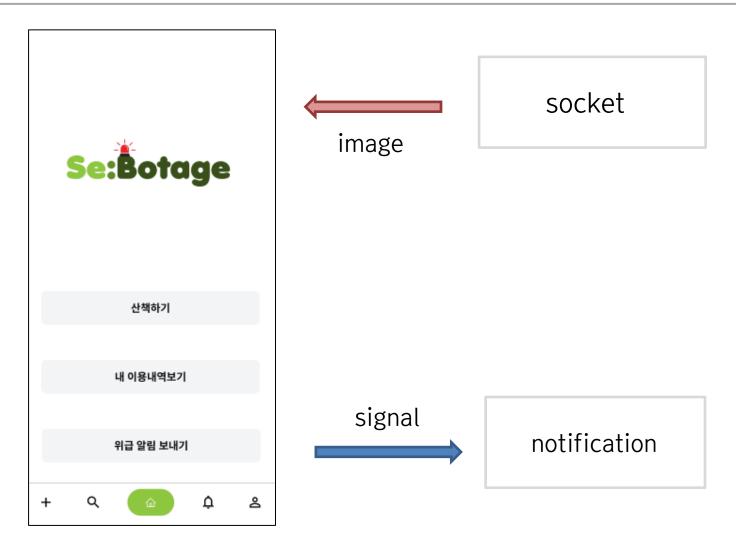
로봇 호출중 입니다.

로봇 호출중 입니다.

search tab



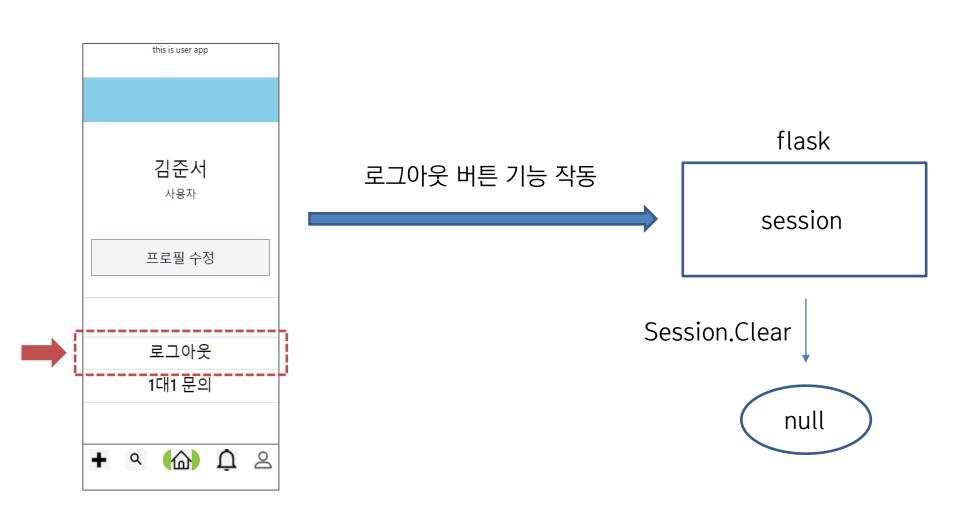
Notification about Emergency



Notification about Emergency(2)



Button for Logout



Future task

user interface during walking assistance

finish walking assistance

THANK YOU