Meeting Notes

This Agenda should be filled by everyone ***by Tuesday 1pm***
Meeting Title: Weekly
Date: 4.06.2024
Attendees: Everyone
Moderator : Vera
Minute Taker: Yessmine

Review of Previous Meeting Action List

Lead: Vera

Actions	Lead	Deadline	Result
Video for presentation	Robert, Vera	05/30/2024	Done
Setup physical environment	Yessmine, Vera, Yin	05/30/2024	Done
Define concrete observation, reward and action	Yessmine, Zied	05/30/2024	Done
Implement example C++ for video	Robert	05/30/2024	Done
Figure out loading with C++	Yin, Kevin	06/04/2024	Ask other gp and Lucas how to load fw into pi with buildhat++
Find example for algorithm	Zied	06/04/2024	Zied found alphago example -> hard to implement because of the large dataset catch example -> easy to implement, Yessmine working

	on it Zied found an other example he's also implementing it

Main discussion topics

Lead: Vera

- Go over Review
- Consider goal for next milestone and see what we have to do each week to get there: Suggestions:
    - Goal for milestone 3: Have a well-running setup of the RL algorithm that can train agent, training needs to be in progress and tested with the physical robot
    - Week 1: Implement the Algorithm; Have complete hardware setup (library extended with distance and extended color, writing in proto buffer); Implement remote control system
    - Week 2: Have an integrated setup that runs : Have tested the algorithm with the whole setup ; Have collected data with the robot ; Run the algorithm ; Rerun the Robot to test if everything works
    - Week 3: TRAIN agent, We WILL need to adjust things
    - Week 4: TRAIN agent ; We WILL need to adjust things

Willie Feedback: Last 2 weeks are to focus on documentation and code refactoring

Data collection should be done asap -> this takes time

Vera -> Data collection on pi (cpp) and Yin-> send remote command over tcp/ip(python) -> until next week

- Consider feedback from the presentation
    - Consider in reward function what we do when the robot stops
    - Adjust environment from feedback : veering right or left

    - Not enough input ? All the other groups work with a video camera
    - PID Controllers?Traceability ?-> With Table this is doable
- Proposals to improve group work :
    - Make masterdoc and always update -> To assign a person
    - Make teams and static responsibilities (e.g. teams for the development?)
        - Hardware team (1 representative) -> Vera
        - Software team (1 representative) -> Zied
    - Friday 15mn at 10am write messages on slack about updates
    - check out git, we made issues and a canban board. If you need to do something for the project tell us so we can make an issue, also to avoid several people working on the same thing. We will sometimes assign issues but generally you should check if there is an open issue and then take it on independently, also take care to move it to « doing » and « done » when applicable
- Review project roles :
    - Everyone check what they need to be doing right now ; is there something you need from the group to achieve this right now ?
- Moderator and note-taker for next week
    - Moderator : Zied
    - Note-Taker : Kevin

Review project roles

Notes

[Additional notes or details that need to be recorded]

Prepared By: Yessmine

presentation feedback

(last color, last distance, current color, current distance)

Algorithm -> Ideally running on Robot,

Agent ready on backend part

Transfer weights to rbpi, load weights into nlp