

COMP3000 Computing Project

2022/2023

Project Title

Audio Authentication via Voice Recognition on QTrobot (AAVR)

Links

[Source Code](#)

[Trello \(Backlog\)](#)

Project Vision

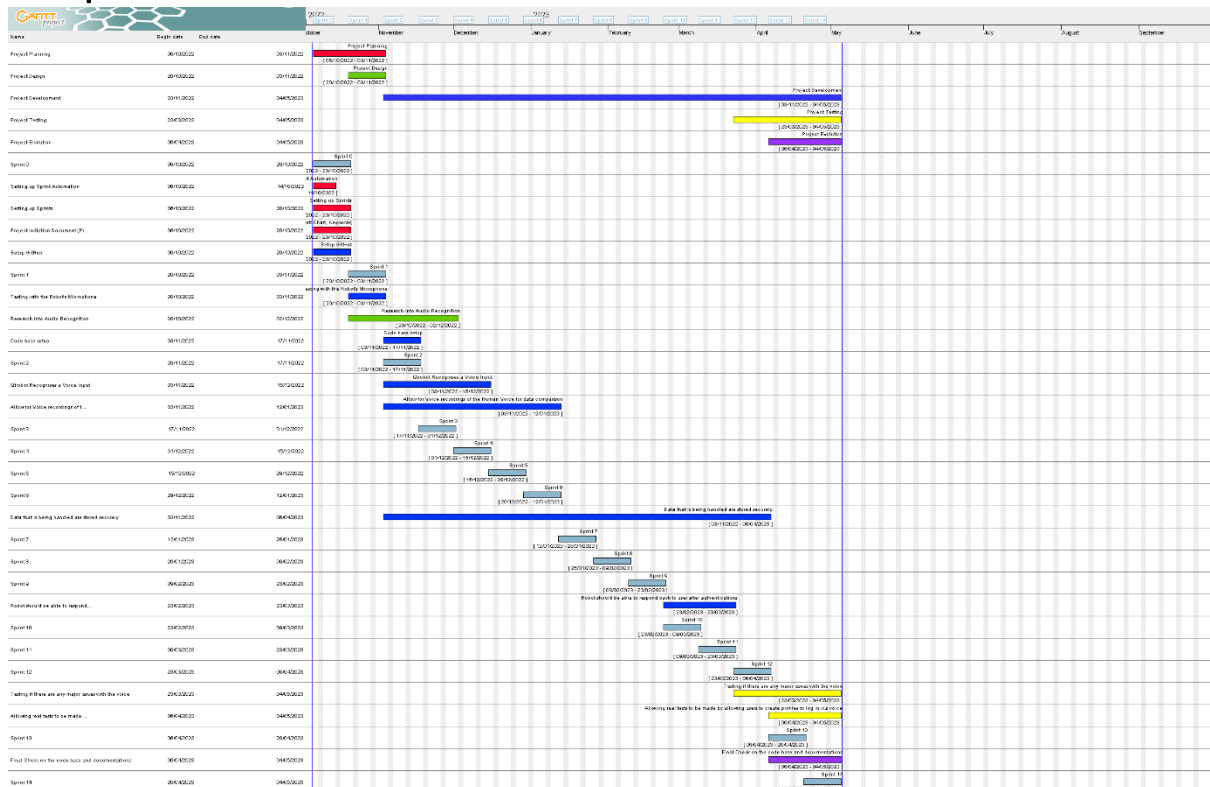
The QTrobot is a toddler-like humanoid robot built by LuxAI. This project, Audio Authentication via Voice Recognition on QTrobot, or AAVR for short, is a software for patients who would like to allow for an easy way to authenticate themselves through robots with the use of their voice. This authentication process with the use of a human voice allows for patients to retrieve their medical records, which might contain their age, height, and weight. This method of authenticating by voice is safer and more convenient as it reduces the amount of human interaction that is needed, therefore allowing for an improvement of personal data security as a whole. With voice authentication, this allows for multiple different patient profiles to be set up conveniently.

Risk Plan

Risks	Probability (Low, Moderate, Significant, High)	Addressing the Issue
Sprint does not get completed within the allocated time	Low	The sprint that was not completed on time will be moved to the next sprint and be updated on the Kanban Board accordingly
QTrobot does not work as expected due to unexpected issues	Moderate	Fixes and patches will be applied accordingly before attempting to move further on with the project
Computer that is used stops working due to human error or accidents	Low	Quickly find a replacement device to ensure sprints are done to minimise delays
Testing procedures might take longer than usual	High	Do the testing thoroughly

Computer might corrupt local disc which causes loss of data that impacts the project	Low	Having local backups and a git version control set in place
Getting burnt out on the project due to overwork and stress	Moderate	Having breaks in between and having a good work-study balance

Proposed Gantt chart



[High Res Image \(Imgur\)](#), [\(Mirror\)](#)

Keywords

Audio, Authentication, Audio Authentication, QTrobot, AAVR, Voice, Voice Recognition, Recognition, LuxAI, Robot,