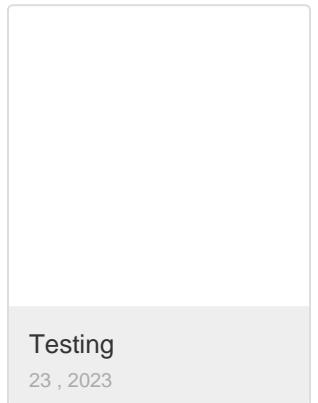


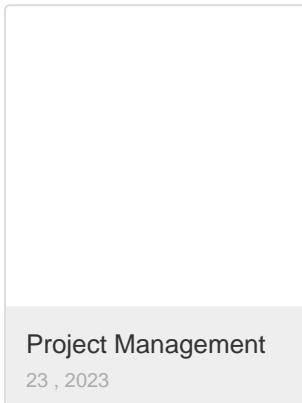
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Home



Testing

23 , 2023



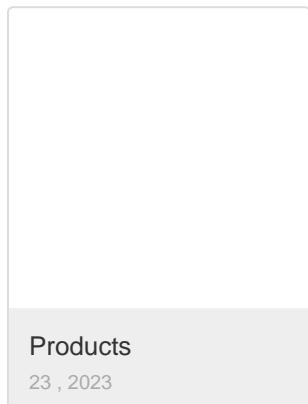
Project Management

23 , 2023



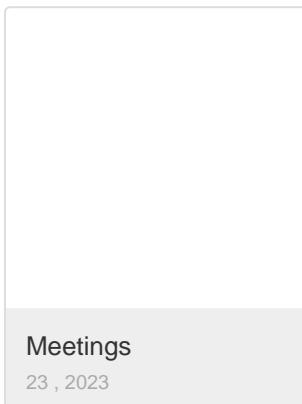
Handover

23 , 2023



Products

23 , 2023



Meetings

23 , 2023

- [Project Management](#)
- [Meetings](#)
- [Testing](#)
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- [Handover](#)

Github	Trello
The GitHub logo, which is a black octocat icon inside a white circle.	The Trello logo, which is a blue circle containing a white square with two vertical bars and a horizontal bar.

- link to Trello
- link to github
- link to old cowriter project
- README file is updated and provide details about the project, workflow (branches/naming conventions and so on).
- Introduce Wafa (Client)
- 250pxIntroduce Max (Supervisor)
- Development 250pxchoices:
 - lib, scripting lang, dev sys.....

Team members

Team members	Title	Contact Email	Photo	Responsibility	Add-on
Chengfeng Zhang	Product Owner	Chengfengz@student.unimelb.edu.au	/	1. Keep in touch with client and supervisor with our project progress. 2. Determine the project background, what is the scope of our product. 3. Compose the personas for intended users and come up with user stories. 4. Holding team meetings and record meeting minutes.	/
Da Zhang	Scrum Master	dzzha1@student.unimelb.edu.au	/	1. Organize and coordinate events such as Sprint planning, Sprint review, and Sprint retrospectives in an efficiently and orderly way. 2. Ensure that Scrum processes are conducted according to specifications and standards 3. Identify, track, and resolve obstacles that teams face which includes interpersonal, technical, resource, and management issues. 4. Responsible for collaboration and self-organization among team members to help the team grow and progress.	/
Yuhang Wang	Team Developer	yuhang3@student.unimelb.edu.au	/	1. Worked on python and ROS code update, maintenance. 2. ChatGPT deployment 3. Update readme, GitHub 4. Cooperate with other development team members, actively cooperate with scrum master and product owner to achieve customer satisfaction.	/
Minyi Chen	Backend developer	minyic@student.unimelb.edu.au	/	1. work on developing and maintaining databases, building APIs, implementing security measures, and integrating third-party services. 2. collaborate with other development team members and ensure that the application meets the desired functionality and user experience.	/
Sijia Pei	Team Developer	sipei@student.unimelb.edu.au	/	1. Update of codes involved in alphabetic interaction. 2. UI design and optimization. 3. Optimize chatGPT dialogue. 4. Maintenance and update of subsequent products. 5. Communicate closely with the members of the development team, regularly show the development progress to client and obtain feedback to ensure that the products meet requirements.	/

Recent space activity



Chengfeng ZHANG

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Da Zhang

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Minyi Chen

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Space contributors

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- [Da Zhang](#) (33)
- [Minyi Chen](#) (13)
- [Yuhang Wang](#) (19)
- [admin admin](#) (18)

Project Management

Background description

Project Overview

The project has two main objectives. Firstly, to **develop a ROS module that enable NAO robot use ChatGPT** in a versatile manner for different conversation contexts. Secondly, to **create educational writing activity based on the existing CoWriter project**, which involves the user teaching the robot how to write using the robot how to write using their demonstration to improve.

Project Background

The ChatGPT and Nao Robot project aims to enable social robots to use natural language processing capabilities provided by ChatGPT by developing a ROS module. This module will allow social robots to engage in more human-like conversations and to understand context.

The CoWriter software, which was originally programmed in Python 2.7 and has not been maintained in a few years. The project will involve reviewing the current project, updating it, and deploying it as a Webapp.

Client Goals

The project has been divided into 3 Work Packages(WP) as following:

- WP1: **Update CoWriter project** with python 3 and ROS version compatible with NAO v6 and **develop a new browser compatible web UI** for the software
- WP2: Integrate ChatGPT with the NAO robot for **autonomous dialogue, personalised selection of words, and autonomous robot motion during conversation**
- WP3: (optional) Implement a logging and annotation module using the ROS4HRI package

The client **requires WP1 and WP2 to be completed** for handover, and if time allows, we may implement WP3 by choice.

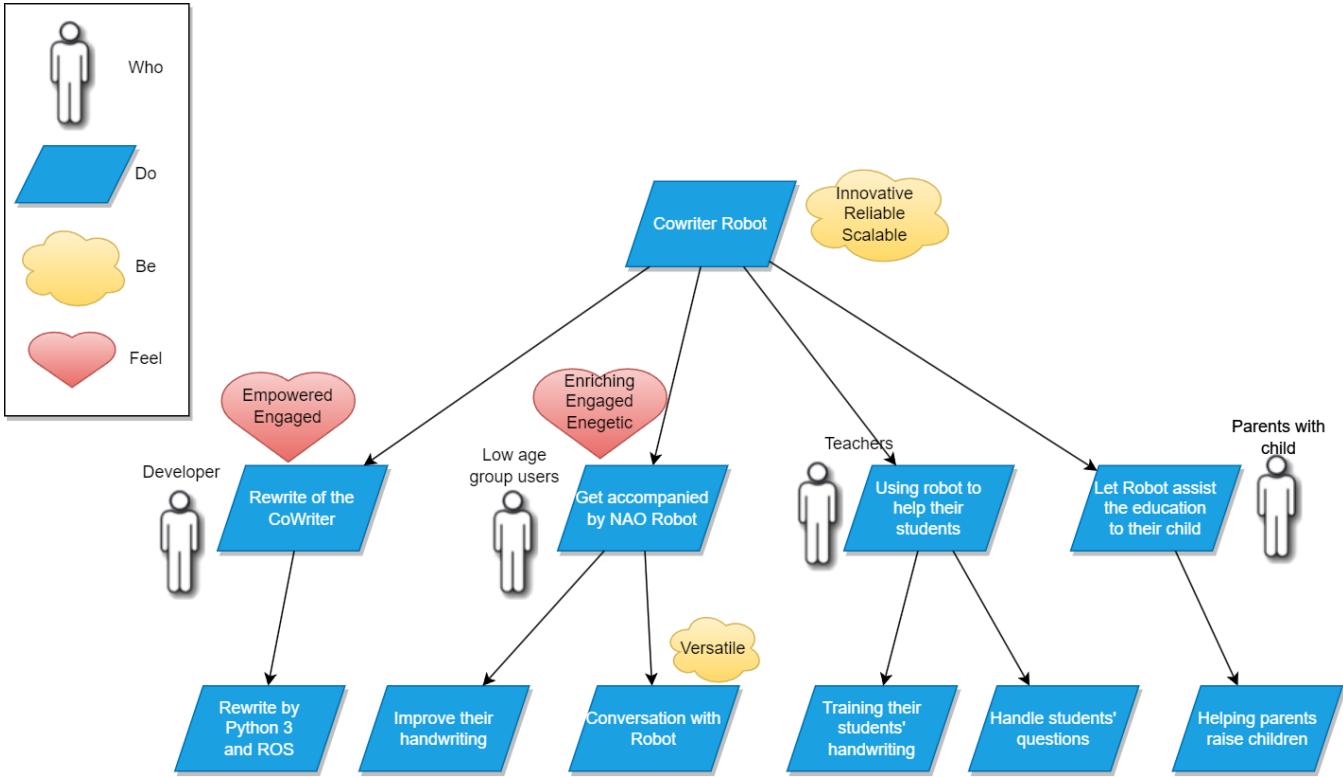
Motivational Model

DO-BE-FEEL list

Do	Be	Feel	Who
Rewrite of the CoWriter	Configurable	Empowered	Developer
Improve handwriting	Reliable	Innovative	Low age group users
Conversation with robot	Customizable	Enjoyable	Low age group users
Training their students	Reliable	Handy	Teachers
Handle students' questions	Customizable	Relaxed	Teachers
Help to raise children	Versatile	Enriched	Parents with kid

Goal Model

Newest Version by2023-3-23:



Refer to page [Goal model Development](#) for previous version of goal models.

Refer to page [Persona](#) for Personas mentioned in the goal model

Navigation

Personas

Stakeholders

Name	Internal/External	Role	Power and Influences
Wafa Johal	Internal	Industry Partner (Client)	Client of the Project...
NA-RedBack	Internal	Development Team	Project Team..
(fictional)	External	Educational Institutions	End User...
(fictional)	External	Individuals with Disabilities	End User...
(fictional)	External	Parents with kids	End User...

3 Fictional personas for our project

Clark Andrew - Preschool Children

Attributes: Friendly, Clever, Shy

Demographics: Age: 10, Work: Non, Family: Single, Location: San Jose, CA, Character: preschool child



Motivation:

Fear	<div style="width: 80%; background-color: #00AEEF;"></div>
Power	<div style="width: 10%; background-color: #00AEEF;"></div>
Social	<div style="width: 50%; background-color: #00AEEF;"></div>

Goals:

- To improve his writing
- To get accompanied by the NAO Robot

Frustrations:

- struggles with sharing his toys and belongings with others
- become frustrated when he has to wait for something
- have difficulty finding the right words to convey his thoughts and emotions

Bio:

Clark is a vibrant and enthusiastic ten-year-old who has captured the hearts of everyone around him. Born on a sunny day in April, Oliver has grown into a curious, kind, and creative preschooler, always eager to explore and learn new things. His wide, twinkly eyes and infectious laughter make it impossible not to fall in love with his cheerful spirit.

Personality:

Introvert	<div style="width: 10%; background-color: #00AEEF;"></div>	Extrovert
Analytical	<div style="width: 5%; background-color: #00AEEF;"></div>	Creative
Loyal	<div style="width: 5%; background-color: #00AEEF;"></div>	Fickle
Passive	<div style="width: 90%; background-color: #00AEEF;"></div>	Active

Preferred Channels:

Social Media	<div style="width: 15%; background-color: #00AEEF;"></div>
Mobile	<div style="width: 85%; background-color: #00AEEF;"></div>
Email	<div style="width: 5%; background-color: #00AEEF;"></div>
Traditional Ads	<div style="width: 10%; background-color: #00AEEF;"></div>

Influencers:



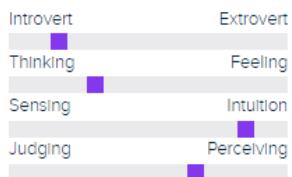
Sophia Isabelle Martinez



"I would like to let my sweetie Mia get accompanied."

Age: **32**
Work: **Kindergarten teacher**
Family: **Married, one kid**
Location: **Melbourne, VIC**
Character: **Passionate**

Personality



Kind Caring Passionate Empathetic

Goals

- Let her child Mia get accompanied
- Keep her work-life balance
- Improve Mia's writing skills

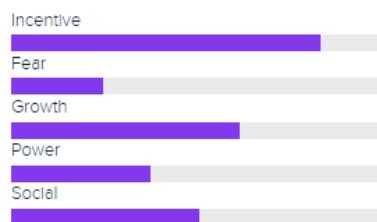
Frustrations

- Work-life balance: Juggling her responsibilities as a kindergarten teacher and a devoted mother to Mia can be challenging at times. Sophia may sometimes struggle to find the perfect balance between her career and personal life.
- Time for self-care: With her busy schedule, Sophia might find it difficult to prioritize time for herself. This can lead to feelings of burnout and frustration when she's unable to engage in her favorite activities or simply relax.

Bio

a devoted and caring mother to her delightful preschooler, Mia. With a background in early childhood education, Sophia expertly navigates the joys and challenges of parenthood while also working as a part-time kindergarten teacher. Her warm and nurturing presence encourages Mia's curiosity and imagination to soar.

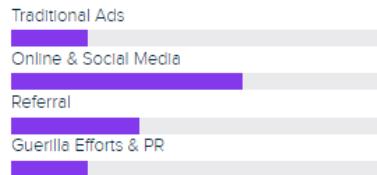
Motivation



Brands & Influencers



Preferred Channels



Lily Thompson



"I'm looking for a tool that helps my students to be educated."

Age: 39
Work: Educator
Family: Married, 1 child
Location: New York, NY
Character: Engaging teacher

Hardworking Organized
Practical Protective

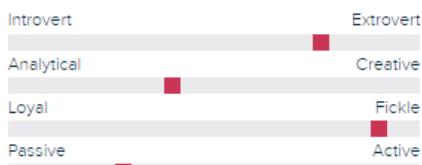
Brands & Influencers



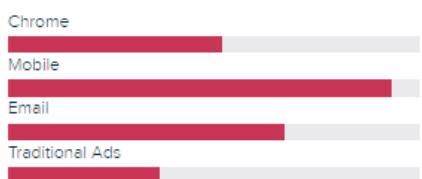
Bio

Lily is a dynamic and innovative educator with a passion for integrating technology into the classroom. Lily is dedicated to inspiring her students to excel in writing by incorporating the NAO robot as a unique teaching tool. Her enthusiasm and expertise in merging cutting-edge robotics with traditional teaching methods create a stimulating learning environment. By leveraging the interactive and engaging capabilities of the NAO robot, Lily motivates her students to hone their writing skills, fostering their creativity and self-expression. Her dedication to enhancing education through technology makes Lily a trailblazer in the world of modern teaching.

Personality



Preferred Channels



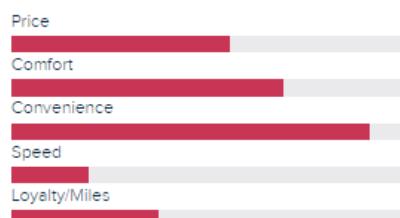
Goals

- Securing funding: Research and apply for grants or other funding opportunities to help acquire and maintain the NAO robot and related technology.
- Balancing teaching methods: Reflect on her teaching practices and solicit feedback from students and peers to ensure an effective balance between traditional methods and the use of the NAO robot.

Frustrations

- Limited resources: Acquiring and maintaining cutting-edge technology like the NAO robot can be expensive.
- Resistance to change: Not everyone is open to embracing new technology in the classroom.
- Time constraints: Developing and implementing lesson plans that incorporate the NAO robot can be time-consuming.

Motivation



User Stories

- Owner or user match stakeholders,
- stakeholders match personas,
- user stories match the lowest functional goal in motivation model

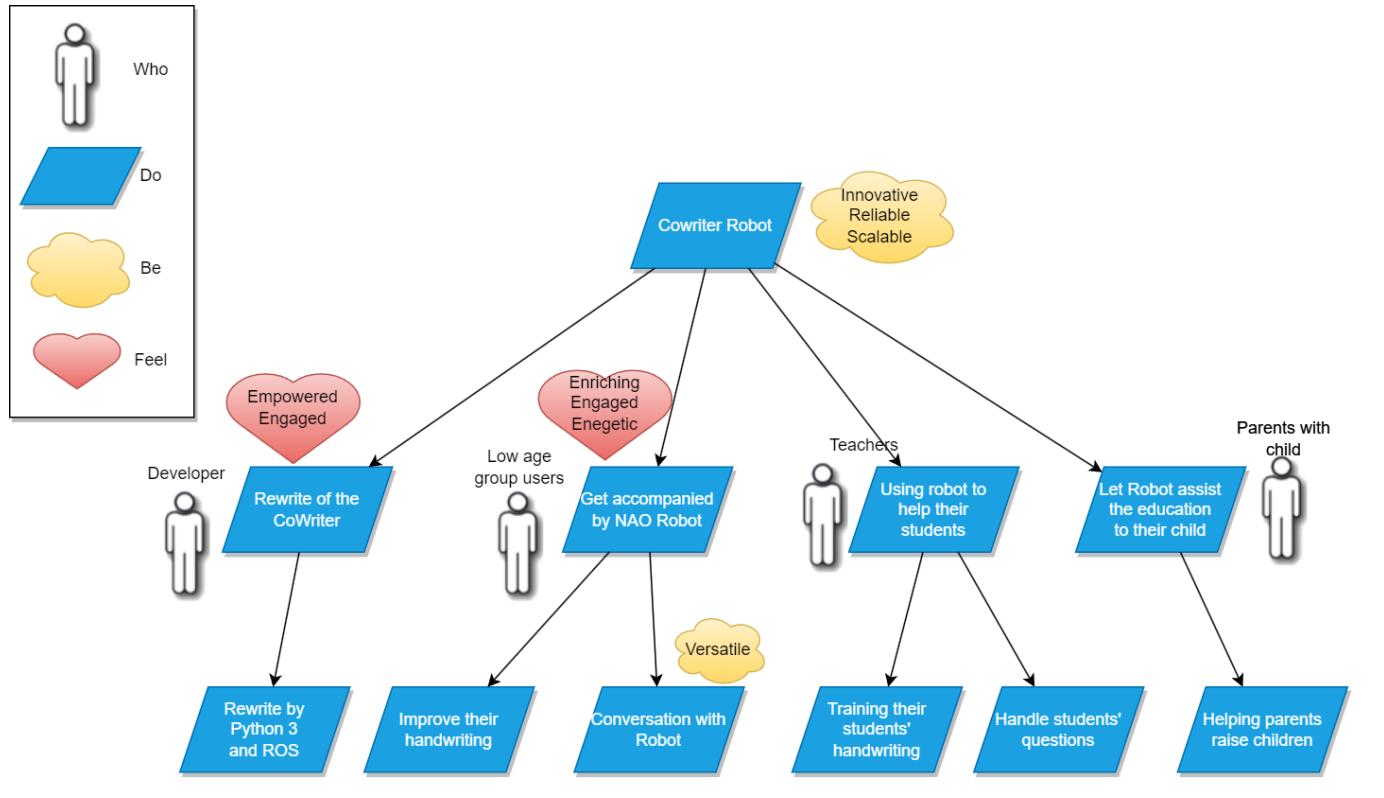
Epic (Features)	ID	Owner	User Stories	Priority	Story Points (1-5)	Size Estimation T-Shirt Sizing	MosCoW Priority	Status	ChatGPT Generated
ChatGPT deployment platform	1	User	As a user, I want to control the NAO robot through web app, so that I can access it by different platforms.	High	5	L	Must have	Assigned	No
Nao robot functionalities	2	User	As a user, I would like to ask random questions to a NAO robot rather than improving my handwriting, so that it makes me feel enjoyable.	High	4	L	Must have	Assigned	No
	3	User - teacher /parents	As a user, I would like to let my children improve their handwriting, so that they can write letters or words fluently as the former version does.	High	4	M	Must have	Assigned	No
	4	User - teacher	As a user, I want to use NAO robot to help me handle the question asked by my students, so that I can have spare time to spend on other students	Medium	3	M	Should have	Assigned	No
	5	User - teacher	As a user, I want to use the NAO robot to guide some distracted students to concentrate on handwriting, so that they will not be disturbed by other students.	Medium	3	M	Should have	Assigned	No
	6	End User - Individuals with Disability	As an individual with disability, I want to social robot to write according to my voice command, so that it can help me with writing during daily lives.	Low	2	S	Could have	Assigned	No
	7	End User - Parent	As a parent, I want the robot to view my kids' handwriting so that it can correct and improve their handwriting.	Low	2	S	Could have	Assigned	No
	8	Client	As the client, I want to integrate ChatGPT with NAO bot, so that the robot's writing and comprehending capability can be improved.	Low	2	M	Could have	Assigned	No
	9	User	As a user, I want to log in the web with my personal account, so that the robot can save my personalized content.	High	4	S	Must have	Assigned	No
	9	Development Team	As the development team, I would like to have agreed formation of the message pack being transferred, so that the communication of information between front-end developer and ROS API developer will be efficient.	High	4	M	Must have	Assigned	No
ROS2 and Python enabled Port and APIs	10	Development Team	As the development team, I would like to use the ROS APIs developed from WP1 and be guided with its documentations so that the development of WP2 will be easier.	High	4	M	Must have	Assigned	No
	11	Development Team	As the development team, I would like to make requests through HTTP protocols, so that I can use the APIs remotely.	High	4	S	Must have	Assigned	No
	12	Client	As a client, I want the port done to have a tidy structure, so that it will be helpful to develop other functionalities in the future.	Medium	3	S	Should have	Assigned	No
	13	Client	As a client, I want clear annotations in the code to facilitate my quick understanding of the code and subsequent work.	Medium	3	S	Should have	Assigned	No
Maintenance and follow-up project development	14	Client	As a client, I want to have a clear README that clearly explains the introduction and operation of the project, which will be helpful for future handover with other developers.	High	4	S	Must have	Assigned	No
	15	Client	As a client, I want to be able to use the latest version, so I can maintain the code more easily.	Medium	4	M	Should have	Assigned	No

Scope

- in scope
- out of scope

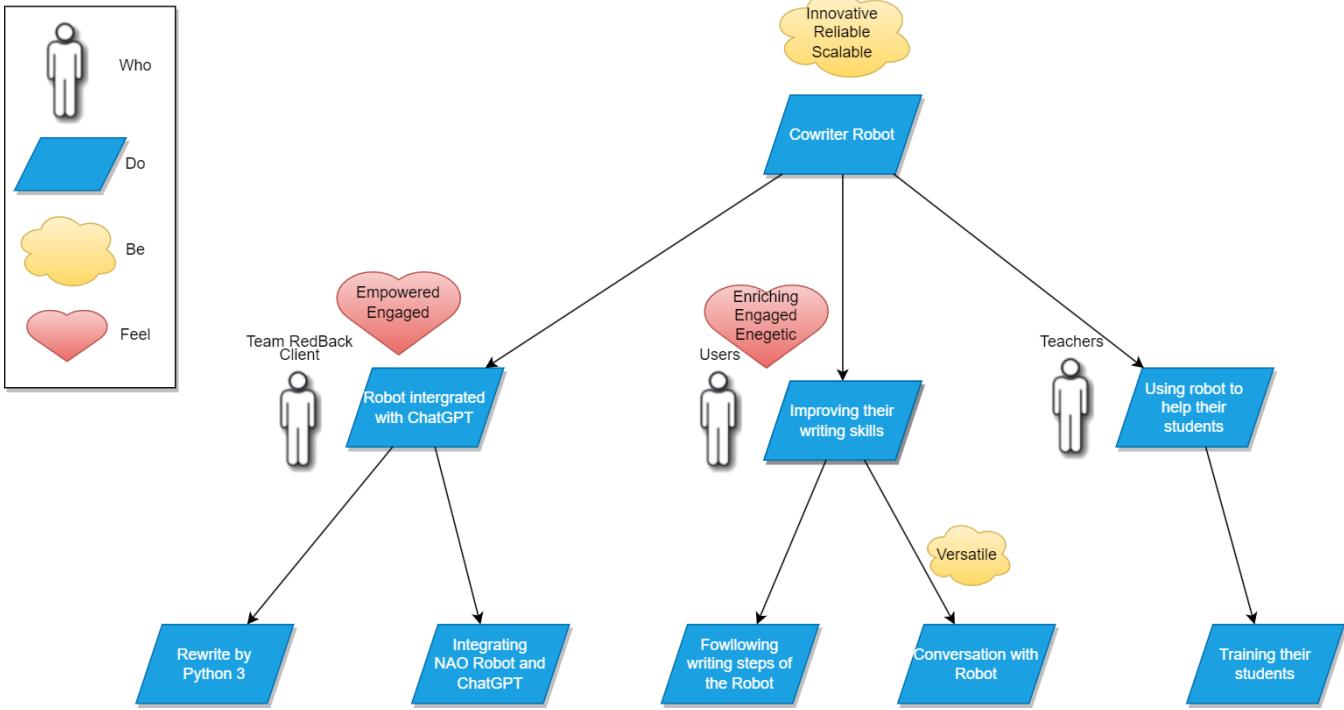
Goal model Development

Newest Version 2023-3-23



Previous Versions

2023-3-16



Risk Assessment

Specific risk:

Risk ID	Risk Type	Description	Probability (0-1)	Impact (1-10)	Exposure	Justification
1	Project	Since upgrading and optimizing CoWriter software requires modifications and extensions to existing systems, there may be technical risk such as compatibility issues.	0.8	5	4	Acknowledging this risk allows our team to plan for thorough testing and troubleshooting, ensuring a smooth transition and minimizing disruptions during the upgrade process.
2	Product	Due to the upgraded CoWriter which integrated with ChatGPT, the Conversational interactions may be incorrect or incomplete and conversational scenarios may not be accurately identified.	0.3	5	1.5	Knowing this risk helps us to prioritize testing on the communication between the user and the NAO robot in specific conversational scenario.
3	Product	Nao Robot requires consideration of robot performance, stability and durability, there may be risks associated with robot deployment and configuration.	0.2	9	1.8	Acknowledging this risk allows us to keep our eyes on the configurations of NAO robot. Make sure its stability and durability.
4	Project	Since upgrading CoWriter software may involve sensitive data, such as user information and learning records, there may be data leakage and security issues.	0.3	9	2.7	Upgrading CoWriter software involves handling sensitive data, which may introduce data leakage and security issues. Recognizing this risk allows us to focus on implementing robust security measures and data protection protocols, ensuring the confidentiality and integrity of user information.
5	Product	The NAO robot is integrating with ChatGPT. Due to the complexity, there may be a risk that our young age users cannot understand the words and actions made by robots.	0.8	7	5.6	Integrating ChatGPT with the NAO robot may result in complex words and actions that young users find difficult to understand. Acknowledging this risk enables us to prioritize simplicity and user-friendliness in the robot's interactions, ensuring an engaging and accessible experience for young users.

Generic risk:

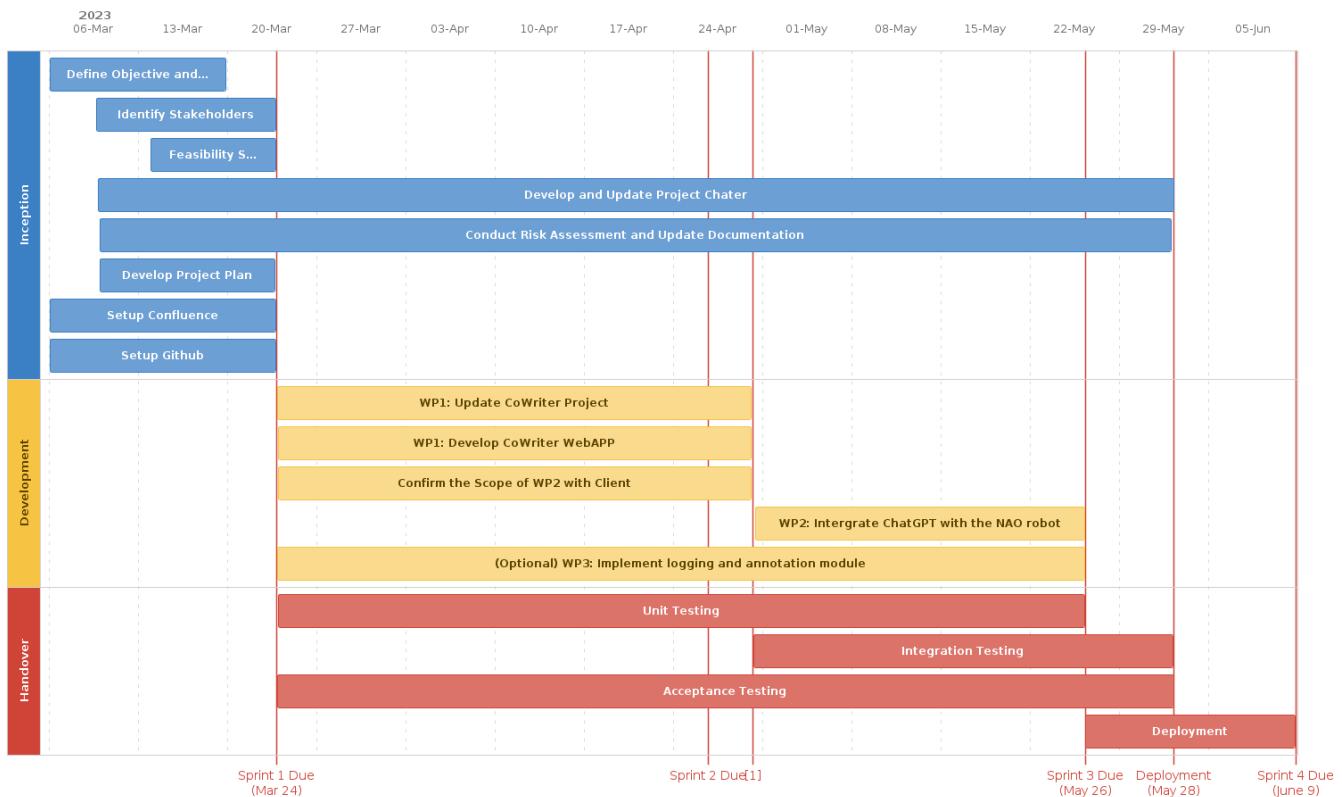
Risk ID	Risk Type	Description	Probability (0-1)	Impact (1-10)	Exposure	Justification
1	Project	Since upgrading and optimizing CoWriter software requires consideration of multiple aspects, such as the special needs of dyslexic children, system performance and stability, there may be time risks, such as project delays.	0.8	9	7.2	By recognizing this time risk, we can allocate resources effectively and plan accordingly to minimize delays while ensuring the software meets the diverse needs of its users.
2	Project	We have to integrating the NAO robot with ChatGPT, it need a series of tests and adjustments will be required, and with a tight budget, we may risk overspending.	0.2	7	1.4	Acknowledging this financial risk enables us to allocate resources efficiently, prioritize essential tasks, and implement cost-effective strategies to minimize budget overruns.
3	Project	The client's envisioned project differs from the target user and team's understanding, potentially leading to a less-than-ideal outcome that may not fully meet the client's expectations.	0.5	7	3.5	Understanding this risk enables us to prioritize clear communication, collaboration, and feedback loops to ensure alignment, ultimately delivering a project that meets the client's expectations and requirements.
4	Product	The possibility of substandard software development, including inadequate code specification and logic errors, may result in compromised system stability and reliability, potentially affecting the overall performance and user experience.	0.2	5	1	By acknowledging this risk, we can prioritize thorough code reviews, rigorous testing, and adherence to best practices, ensuring the delivery of a high-quality product that meets performance standards and provides a satisfactory user experience.
5	Product	Insufficient testing could result in undetected errors or vulnerabilities, potentially compromising the system's stability and reliability, and negatively impacting overall performance and user experience.	0.3	5	1.5	Acknowledging the risk of inadequate testing allows us to prioritize comprehensive testing strategies, including unit, integration, and stress testing, to identify and address potential errors or vulnerabilities. This ensures system stability, reliability, and a positive user experience, contributing to a successful product launch.

Project Plan

Plan

We were currently work on the work package 1 that client needs us to rewrite the CoWriter by Python 3. By completing the rewrite and implementation of web app, we are able to integrate the ChatGPT with the NAO robot in sprint 2. We are planning to debug and restrict the ChatGPT's behavior and tone to make it more childlike. In addition, we plan to perform comprehensive testing on the robot, including unit, integration and stress testing, to address the potential errors or vulnerabilities.

Project Timeline



[1]: Client will select the best port solution between Team RedBack, BoxJelly and BlueRing

Project Progress and Milestones

		Completed	<ul style="list-style-type: none"> • Project Charter (Initial Version) • Project Plan (Initial Version) • Risk Assessment (Initial Version) • Project Objective and Goal Confirmed
WP1 Completed	2023-4-28	On Track	<ul style="list-style-type: none"> • CoWriter software updated to adapt Python 3 and Ros 2 Humble • A working corresponding UI for the CoWriter software
Sprint 1 Review	2023-3-30	On Track	<ul style="list-style-type: none"> • Client approve our design solution • Client confirmed all the required functionalities are completed
(More to be Added)			

Status Key Note:

1. **On track**: The project is progressing according to plan and is on schedule to meet its milestones and deliverables.
2. **Behind schedule**: The project is not progressing as quickly as planned, and some milestones or deliverables may be delayed.
3. **Completed**: The project has been successfully completed, and all milestones and deliverables have been achieved.

Development Environment

(Most of the following was generated by chatGPT)

For the coding, we use ROS2 humble and Python3 to development.

- ROS2 humble

ROS2 (Robot Operating System 2) is the second generation of Robot Operating System, which is an open-source framework for building robot software. ROS2 offers several advantages over its predecessor, ROS1, including:

1. Improved Real-time Performance: ROS2 has a more modular architecture that allows better real-time performance and improved handling of time-critical operations.
2. Better Security: ROS2 offers better security features compared to ROS1. It has added features such as encryption, authentication, and access control to ensure that robots are secure and protected from cyber threats.
3. Cross-Platform Compatibility: ROS2 can run on different platforms, including Linux, Windows, and macOS. This makes it easier to develop, test, and deploy robot applications across multiple platforms.
4. More Language Support: ROS2 supports more programming languages than ROS1, including C++, Python, and Java. This makes it easier for developers with different language backgrounds to work on the same project.
5. Modularity and Scalability: ROS2 is designed to be more modular, which makes it easier to develop, test, and deploy complex robotic systems. It also allows for better scalability and reusability of software components.
6. Easier Integration with Other Tools: ROS2 has a more streamlined build system and is designed to work with other development tools such as Git and CMake. This makes it easier to integrate with other software tools and frameworks.
7. Besides, this version is currently supported for the longest maintenance.

- Python 3

Python 3 is the latest version of the Python programming language, and it offers several advantages over its previous version, Python 2. Here are some of the key advantages of Python 3:

1. Improved Unicode Support: Python 3 has better support for Unicode, making it easier to work with non-ASCII characters and text in different languages.
2. Better Performance: Python 3 has several performance optimizations over Python 2, including better garbage collection and a faster interpreter.
3. Enhanced Libraries: Many of the popular Python libraries have been updated to work with Python 3, offering enhanced functionality and new features.
4. More Streamlined Syntax: Python 3 has a more streamlined syntax that reduces ambiguity and improves readability, making it easier for developers to write and maintain code.
5. Advanced Features: Python 3 has several advanced features, such as asynchronous I/O, function annotations, and type hints, that make it easier to write complex applications.
6. Future-Proofing: Since Python 2 has been deprecated and is no longer being actively developed, it makes sense for new projects to be written in Python 3 to ensure future compatibility and support.

To run ROS2 better, we used Ubuntu22.04

- Ubuntu 22.04

Ubuntu 22.04 is the latest version of the popular Linux-based operating system, and it offers several advantages over its previous versions. Here are some of the key advantages of Ubuntu 22.04:

1. Improved Desktop Experience: Ubuntu 22.04 offers a new desktop experience with the latest GNOME 42 desktop environment, providing a modern and streamlined user interface.
2. Updated Software: Ubuntu 22.04 comes with updated software packages, including the latest versions of popular applications like Firefox, LibreOffice, and Thunderbird.
3. Better Performance: Ubuntu 22.04 includes several performance improvements, including faster boot times and improved power management, resulting in a smoother and more efficient user experience.
4. Enhanced Security: Ubuntu 22.04 offers enhanced security features, including better sandboxing for applications and improved encryption options.
5. Improved Gaming Support: Ubuntu 22.04 includes improved support for gaming, including better graphics performance and compatibility with more games.
6. Better Development Environment: Ubuntu 22.04 comes with a range of development tools, including the latest version of Python, making it an ideal platform for developers.
7. Long-Term Support: Ubuntu 22.04 is a Long-Term Support (LTS) release, which means that it will receive updates and support for a longer period than non-LTS releases, making it a more stable and reliable choice for businesses and organizations.

To simulate and validate our development, we use Webots

- Webots

Webots is a popular open-source robot simulation software used for developing and testing robot applications. Some of the key advantages of Webots include:

1. Multi-Platform Compatibility: Webots runs on different platforms, including Linux, macOS, and Windows, making it easier to develop and test robot applications across different systems.

2. Realistic Simulation Environment: Webots provides a realistic simulation environment that can simulate different types of robots, sensors, and environments. This allows developers to test and debug their robot applications in a safe and controlled environment before deploying them in the real world.
3. User-Friendly Interface: Webots has a user-friendly interface that is easy to use, even for beginners. It provides a drag-and-drop interface for designing robots and environments, making it easy to create complex simulations.
4. Open-Source: Webots is an open-source software, which means that developers can access the source code and modify it to meet their specific needs.
5. Extensible: Webots is highly extensible, allowing developers to add their own models, sensors, and actuators to the simulation environment.
6. Integration with Other Tools: Webots can be integrated with other tools, such as ROS (Robot Operating System), making it easier to develop and test robot applications that use other software tools.
7. Cost-Effective: Webots is a cost-effective solution for developing and testing robot applications since it eliminates the need for expensive hardware and allows for the simulation of different robot types and environments.

Product Backlog

Sprint 1

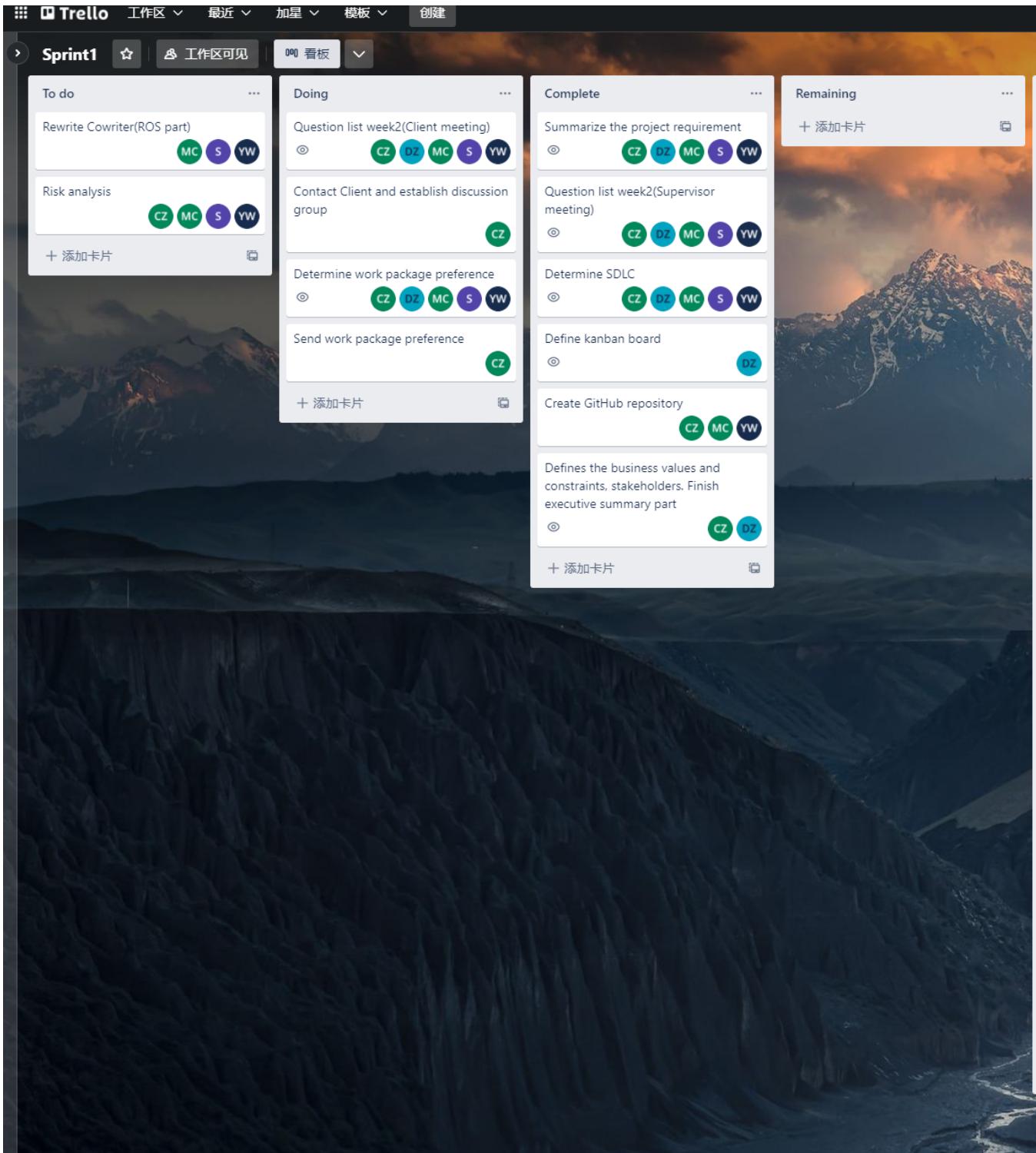
Sprint 1 Backlog

User Story ID	Owner	Feature User story	Decomposed user story	Task	Story Point
12	Client	As a client, I want the port done to have a tidy structure, so that it will be helpful to develop other functionalities in the future.	As a client, I want the functionality is moduled in the project, so that it will be helpful to develop other functionalities in the future.	-Create repository on GitHub -Define the structure of the project with client	3
13	Client	As a client, I want clear annotations in the code to facilitate my quick understanding of the code and subsequent work.		-Analysis the code provided by the Client. -Clear comments when rewriting code or writing new code	3
14	Client	As a client, I want to have a clear readme that clearly explains the introduction and operation of the project, which will be helpful for future handover with other developers.	As a client, I want the README file to clearly show the structure of the project, so that it convenient to maintain the code in the future.	-Maintain and update the README file	4
			As a client, I want the README file to clearly show how to install the related pakage which is needed in the project, so that I can run the code.	-Maintain and update the README file when new module or package is used in the development	
			As a client, I want the README file to clearly show how to use and run the provided code.	-Maintain and update the README file.	
15	Client	As a client, I want to be able to use the latest version, so I can maintain the code more easily	As a client, I want the source code provided to be rewrite in lastest Python versionso that I can mantain the code more easily in the future.	-Determine the lastest version of Python used in the project with Client. -Analysis the code provided by the Client. -Rewrite the source code provided by the Client, -Push the source code onto the GitHub.	4
			As a client, I want the ROS module provided to be rewrite in lastest ROS version ROS2so that I can mantain the code more easily in the future.	-Determine the lastest version fo ROS module used in the project with Client. -Learning how to use ROS module. -Analysis the code provided by the Client. -Rewrite the source code provided by the Client, -Push the source code onto the GitHub.	

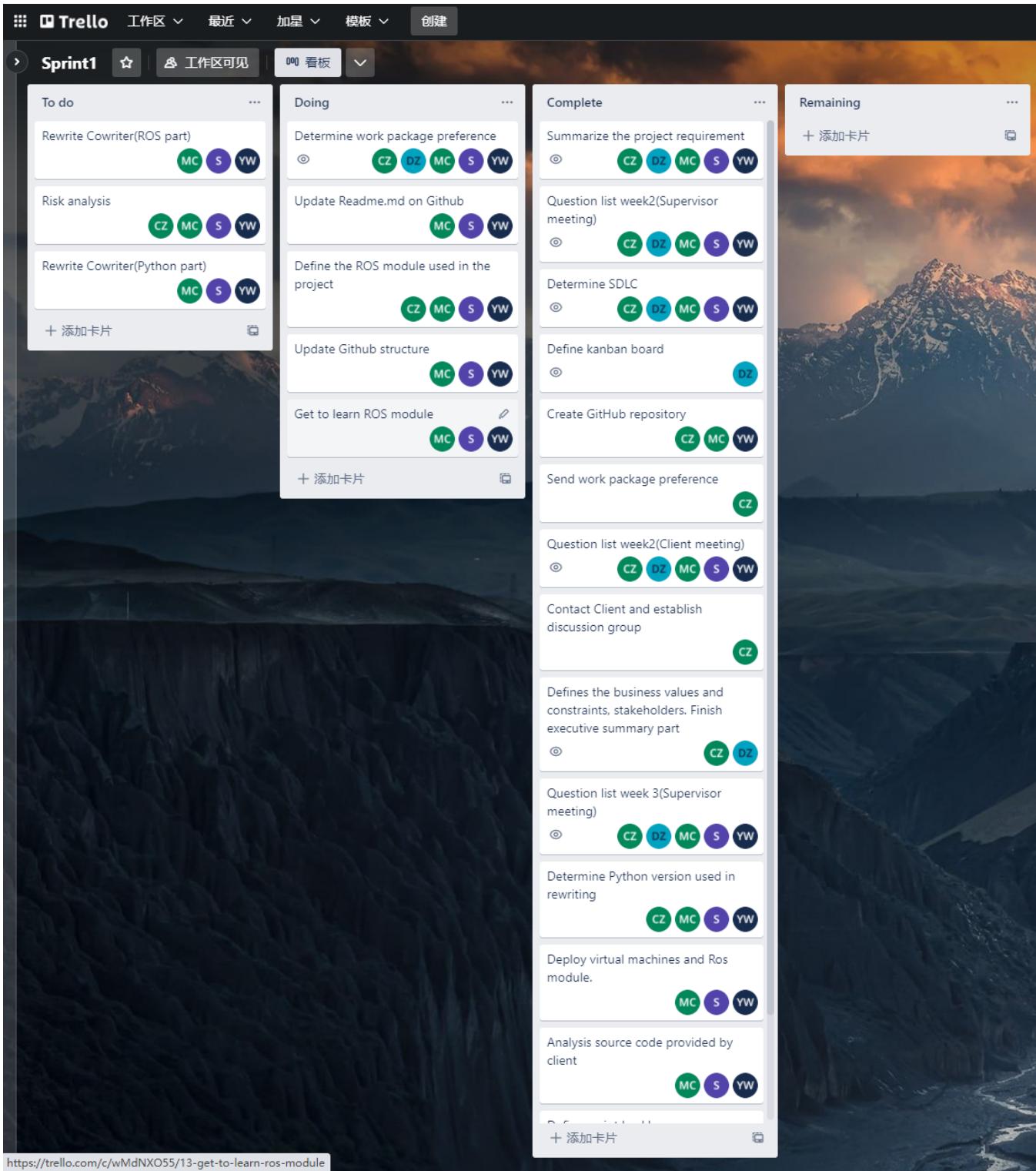
Kanban board and burndown chart

<https://trello.com/b/lBVbLBjj/sprint1>

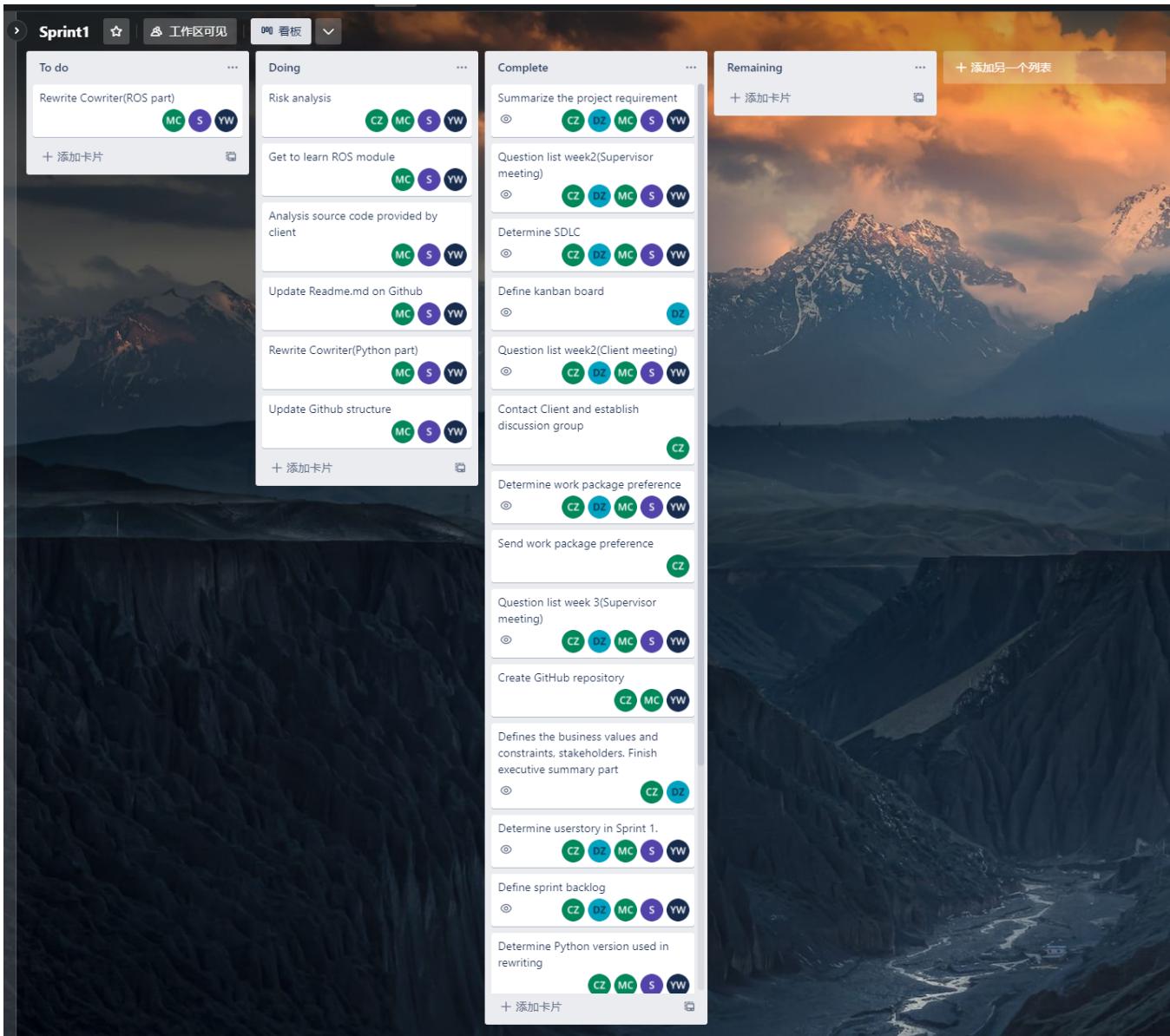
Week2



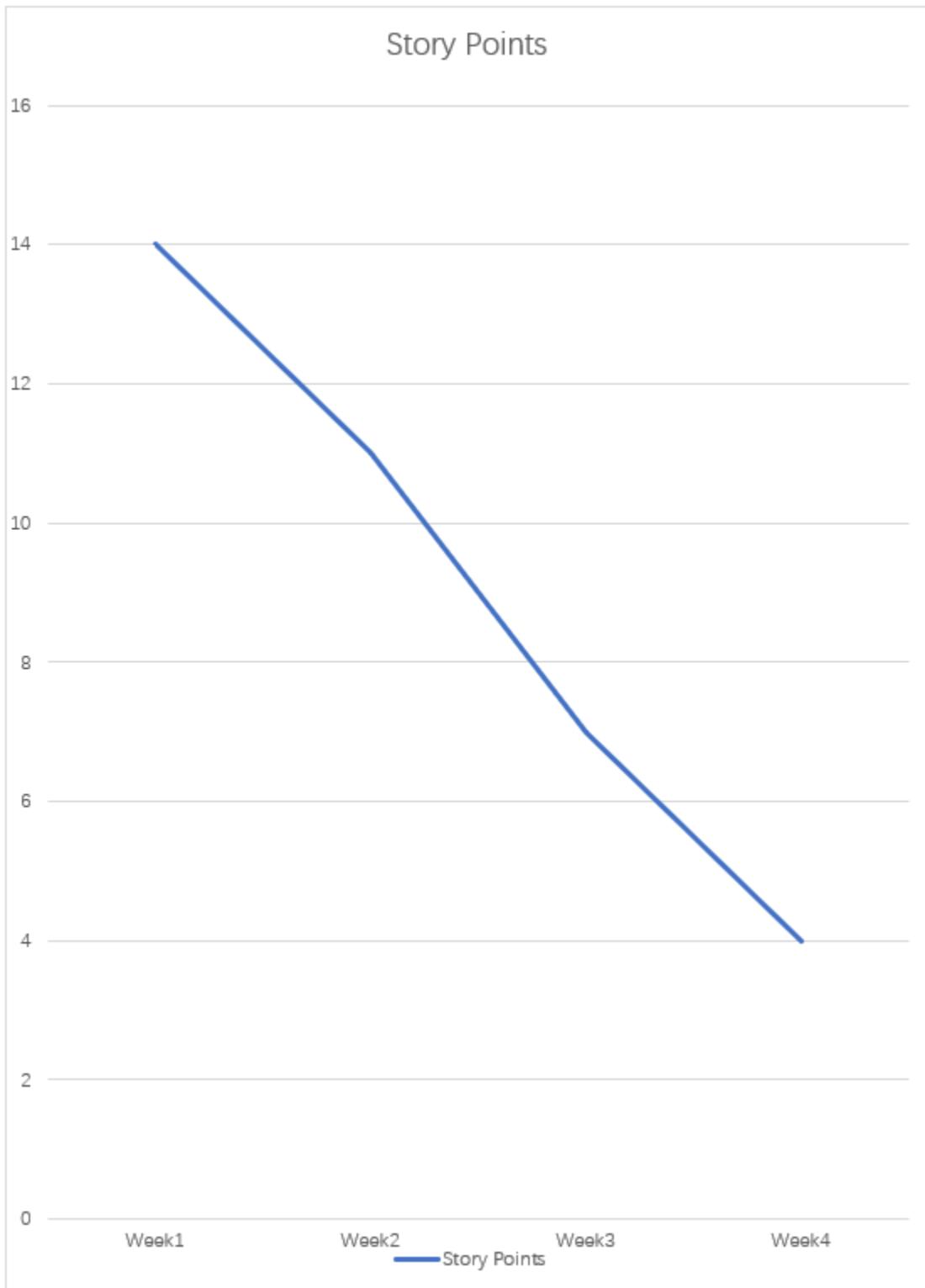
Week3



Week4



Sprint 1 burndown chart



Sprint 2

Sprint 3

Sprint 4

Meetings

Supervisor Meetings

Meeting 3/10 (with Max)

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/10/2023 -10:15:00 AM

Minute Taker: @Minyi Chen

Attendees:

- @Max Plumley
- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Supervisor introduced the general content of the project and the general situation.
- Introduced the industry partner to the development team.
- Determined the time of weekly meeting with the supervisor.
- Obtained the contact information with the customer and supervisor.
- Supervisor answered a series of questions from the development team.
- Review the minutes and action items of the last meeting.

Action Item	Owner	Deadline	Status
Determine follow-up meeting time with Supervisor	All team members	Mar.10.2023	Accomplished
Prepare the question list for the client meeting.	All team members	Mar.10.2023	Accomplished

Next meeting time: 10th March 2023

Meeting 3/14 (with Max)

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/14/2023 - 4:00:00 PM

Minute Taker: @Minyi Chen

Attendees:

- @Max Plumley
- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Reviewed the meeting with Client last week.
- Explain to Supervisor the role of each team member.
- Supervisor answered a series of questions from the development team.
- Presented to Supervisor the progress of the current development team.
- The supervisor adds some requirements to the development team.

Action Item	Owner	Deadline	Status
Determine Sprint review time	Chengfeng Zhang	17 th .Mar.2023	Accomplished
Define user story of sprint 1	Yuhang Wang, Minyi Chen, Sijia Pei	17 th .Mar.2023	Accomplished
Define sprint backlog	Da Zhang	17 th .Mar.2023	Accomplished
Draw an ideal Burndown Chart & expected Velocity	Da Zhang	17 th .Mar.2023	Accomplished
Get to learn ROS module	Yuhang Wang, MinyiChen, Sijia Pei	20 th .Mar.2023	Assigned

Next meeting time: 17th March 2023

Meeting 3/21(with Max)

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/21/2023 - 4:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Max Plumley
- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Show the supervisor the usersotry
- Show the risk management to supervisor
- Supervisor proposed modification suggestions for the above two aspects.

Action Item	Owner	Deadline	Status
Analysis risk of the project	Da Zhang Chengfeng Zhang	23 th .Mar.2023	Accomplished
Modify userstory of Sprint1	Da Zhang Chengfeng Zhang	23 th .Mar.2023	Accomplished
Modify risk management	Da Zhang Chengfeng Zhang	23 th .Mar.2023	Accomplished
Analysis ROS module	Yuhang Wang, MinyiChen, Sijia Pei	29 th .Mar.2023	Assigned
Modify README.file on GitHub	Yuhang Wang, MinyiChen, Sijia Pei	29 th .Mar.2023	Assigned

Next meeting time: 21th March 2023

Team Meetings

Meeting 3/06

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/06/2023 -04:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Team members to get to know each other and introduction themselves.
- Team members shared their areas of expertise and professional skills.
- Schedule for various routine meetings in the following weeks.
- Discussed the detailed content provided on the LMS and briefly summarize the project requirements for development.
- Prepare a question list for follow-up and supervisor meeting.

Action Item	Owner	Deadline	Status
Summarize the project requirement	All team members	Mar.09.2023	Accomplished
Prepare the question list for the supervisor meeting	All team members	Mar.09.2023	Accomplished
Determine a SDLC process for the project	All team members	Mar.09.2023	Accomplished

Next meeting time: 09th March 2023

Meeting 3/13

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/13/2023 -04:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Review the minutes and action items of the last meeting
- Division of labor according to the areas of expertise of members
- Establishing a general framework of PMP.
- Discuss and decide on the SDLC used by the project.
- Discuss the risk analysis of the project.

Action Item	Owner	Deadline	Status
Prepare the question list for the supervisor meeting	All team members	14 th . Mar.2023	Accomplished
Determine the work packages	All team members	14 th . Mar.2023	Accomplished
Create repository on GitHub	Yuhang Wang	14 th . Mar.2023	Accomplished
Define the sprint goal	Da Zhang	17 th .Mar.2023	Accomplished
Define kanban board	Da Zhang	17 th .Mar.2023	Accomplished
Determine the technology used for the project	Chengfeng Zhang	17 th .Mar.2023	Accomplished
Defines the business values and constraints	Chengfeng Zhang	17 th .Mar.2023	Accomplished
Finish the executive summary of the project	Chengfeng Zhang	17 th .Mar.2023	Accomplished
Define the stakeholders	Chengfeng Zhang	17 th .Mar.2023	Accomplished
Risk analysis	Yuhang Wang, MinyiChen, Sijia Pei Chengfeng Zhang	17 th .Mar.2023	Accomplished
Define kanban board	Da Zhang	17 th .Mar.2023	Accomplished
Define the ROS module used in the project	Chengfeng Zhang Yuhang Wang, MinyiChen, Sijia Pei	20 th .Mar.2023	Accomplished
Analysis the source code	Yuhang Wang, MinyiChen, Sijia Pei	20 th .Mar.2023	Assigned

Get to learn ROS module	Yuhang Wang, MinyiChen, Sijia Pei	20 th .Mar.2023	Assigned
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Next meeting time: 14th March 2023

Meeting 3/17

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/17/2023 -04:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Review the minutes and action items of the last meeting
- Determine the ROS module used in the project.
- Discuss the user story in Sprint1.
- Determine the version of virtual machine used.
- Discuss the Python version used to rewrite the Cowriter

Action Item	Owner	Deadline	Status
Deploy virtual machines	Yuhang Wang, MinyiChen, Sijia Pei	18 th .Mar.2023	Accomplished
Deploy the ROS development environment	Yuhang Wang, MinyiChen, Sijia Pei	18 th .Mar.2023	Accomplished
Determine the Python version used to rewrite	Chengfeng Zhang Yuhang Wang, MinyiChen, Sijia Pei	18 th .Mar.2023	Accomplished

Next meeting: 20th.March.2023

Meeting 3/21

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/21/2023 - 5:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- Redefine userstory
- Discuss rewriting the Cowriter

Action Item	Owner	Deadline	Status
Keep on rewriting Cowriter (Python part)	Yuhang Wang, MinyiChen, Sijia Pei	29 th .Mar.2023	Assigned
Keep on rewriting Cowriter (ROS part)	Yuhang Wang, MinyiChen, Sijia Pei	29 th .Mar.2023	Assigned

Next meeting: 24th.March.2023

Routing Meetings (Stand-Up Meeting)

Client Meeting

Meeting 3/10 (with Client Wafa)

Meeting Minute

Project Title: Team ChatGPT and Nao Robot (code: NA)

Meeting Time: 3/10/2023 -11:00:00 PM

Minute Taker: @Da Zhang

Attendees:

- @Max Plumley
- @Wafa Johal
- @Sijia Pei
- @Chengfeng Zhang
- @Yuhang Wang
- @Minyi Chen
- @Da Zhang

Meeting Agenda

- The client provided contact information to the development team.
- The client explained the project details, division of labor and deadlines.
- The client answered a series of questions from each development team.

Action Item	Owner	Deadline	Status
Determine a SDLC process for the project	All team member	13th.March 2023	Accomplished
Create a discussion group for the development team and customers on slack	Cheng feng Zhang	13th.March 2023	Accomplished
Send work package preference to the Client	Cheng feng Zhang	13th.March 2023	Accomplished

Next meeting time: 14th March 2023

Testing

Sprint1 User acceptance test

User story ID	User story	Target	Pre-condition	Acceptance Criteria	Testing steps	Status
12	As a client, I want the port done to have a tidy structure, so that it will be helpful to develop other functionalities in the future.	Verify that the port structure is clean and orderly, and that future functionality can be easily developed.	-Port development is complete. -The code has been reviewed and approved by the development team.	- The code structure should be easy to understand and navigate. - Code should be properly commented and documented to clearly explain each module, function, and variable. - It should be easy to add new features to your code without introducing errors or breaking existing code. - Any problems or suggestions for improvement related to the code structure are resolved or documented.	-Open the port code file and examine the code structure. -Verify that the code is organized in a logical and consistent manner. -Check that the code is properly commented and documented to clearly explain each module, function, and variable. -Try to add new functionality to the port and verify that the code structure makes it easy to implement. -Ask the development team what they think of the code structure and if they find it easy to use. -Clearly document any problems or suggestions for improvements related to the code structure.	Assigned
13	As a client, I want clear annotations in the code to facilitate my quick understanding of the code and subsequent work.	Verify that the comments in the code are clear, so that customers can quickly understand the code and follow up.	- Code development is complete. - The code has been reviewed and approved by the development team.	- Open the code file and check the comments. - Verify that comments are clear and easy to help understand the logic and purpose of the code. - Ask the development team what they think of code comments and if they think they are helpful for understanding code and developing new features. - Record any problems or suggestions for improvement related to code comments.	- Comments should be clear and easy to help understand the logic and purpose of the code. - Comments should cover all important code segments and features, as well as variables and functions involved. - Comments should be updated to reflect code changes and modifications. - The development team should confirm that comments are helpful in understanding the code and developing new features. - Clearly document any problems or improvement suggestions related to code comments .	Assigned
14	As a client, I want to have a clear readme that clearly explains the introduction and operation of the project, which will be helpful for future handover with other developers.	Verify that the README in the project is clear, that it introduces the project clearly, and that it helps with future handoffs with other developers.	- Project development has been completed. -README has been reviewed and approved by the development team.	- The README should be clear and explain the purpose, function, and operation of the project. - The README should contain the necessary information, such as project name, version number, dependencies, etc. - The operation instructions in the README should be clear and easy to help users complete the project operation. - The development team should confirm with the customer that the README is very helpful for the transition. - Any problems or suggestions for improvement related to the README are clearly documented.	- Open the README file and examine its contents. - Verify that the README is clear and describes the purpose, function, and operation of the project. - Try to follow the instructions in the README and verify that the operation completes successfully. - Ask the development team what they think of README and if they think it will be very helpful for the transition. - Clearly document any problems or suggestions for improvement related to the README.	Assigned
15	As a client, I want to be able to use the latest version, so I can maintain the code more easily.	Verify that code in the project, including customer-provided code and code developed by the development team, is written in the latest version of the programming language as required to facilitate the development of new functionality by the customer.	- Project development has been completed. - The code has been reviewed and approved by the development team.	- The code in the project, both client-supplied code and code developed by the development team, has been written in the latest version of the programming language as required. - When code is upgraded to a higher version of a programming language, the difficulty and impact of the upgrade should be minimized. - The development team should confirm that using the latest version of the programming language improves code quality and maintainability. - Any problems or suggestions for improvements related to the way the code was written are clearly documented.	- Review the code in the project, both customer-supplied code and code developed by the development team. - Verify that the code is written as required in the latest version of the programming language (Python3, ROS2). - Ask the development team for their opinion on the way the code is written and using the latest version of the programming language and talk to the customer. - Document any problems or improvements related to the way the code is written.	Assigned

Products

Handover

Bin

The branch is used to store unused pages.

Project Charter (----)