Development Plan Plutos

Table 1: Revision History

Date	Developer(s)	Change
	Payton Chan, Eric Chen, Fondson Lu Jason Tan, Angela Wang	Revision 0 Revision 0
•••		

1 Confidential Information

This project does not have confidential information from industry to protect. However, we all personally identifiable information (PII) will be kept confidential. Personal data will not be disclosed or made accessible to the public, and is securely stored within each user's account, accessible only to the account holder. We adhere to stringent security protocols to protect user information in compliance with applicable data protection regulations.

2 IP to Protect

There is no Intellectual Property (IP) to protect.

3 Copyright License

We are adopting the MIT license, which enables the free distribution of our work. The license can be found here: MIT License.

4 Team Meeting Plan

4.1 Meeting Schedules and Locations

- Every Monday (excluding breaks & holidays) from 2:30 PM to 4:20 PM (2 hours) at the designated tutorial time. All team members are required to attend, be punctual, and come prepared with updates or questions.
- The meeting will be held in person in one of the following buildings: MDCL, LRW, Gerald Hatch Center, or Mills Library. Consult the team the weekend before the meeting to choose a suitable tutorial/meeting room and if necessary, reserve it for a 2 hour time period.
- Contingency for in-person meetings: If extenuating circumstances (e.g., severe weather) prevent meeting in person, the meeting will be held virtually or postponed to the next available date based on group consensus. Meetings may also be held virtually if discussed and agreed upon by the majority of the members. Virtual meetings will take place on our shared Discord server.
- When required, the team can host additional meetings throughout the week that align with each member's schedules to address certain road-blocks/issues encountered throughout the working week. The meeting will take place in the same buildings listed above or virtual if there is no seating available.

4.2 Meeting Structure

Each meeting will be scheduled in advance with an agenda prepared by the Meeting Secretary (more details on roles discussed in Section 4.3.). Attendance will be recorded at the start of each meeting, after which agenda items will be discussed. A list of action items will be noted at the bottom of the agenda, where each item will be assigned a specific team member for implementation.

The weekly Monday meetings will be conducted in an agile/scrum-like approach.

- The first 15-30 minutes will be dedicated to a standup, where each person will be giving a brief update on their progress for the prior week, their current plan/task/actions items for the upcoming week, and any roadblocks or questions they may have that concerns other parts of the system.
- The remaining time meeting is allotted for additional development work, peer programming and/or tech debt. Time should be used effectively based on the upcoming deadlines for that week.

5 Team Communication Plan

- The main source of communication between the team will be via **Discord**. Meetings that need to be conducted virtually will be done through the dedicated voice channel (*General*) within the team server.
- All development-related issues will be hosted via the project's GitHub Issues tab.
 - This provides us a source of traceability for every task completion along with an interface to receive instructional feedback.
- GitHub Projects will be used as our primary project management tool. This board will be reviewed every week during Monday meetings and regularly updated throughout the week.

Table 2: Team Contact Information

Member Name	Discord (primary contact)	MacID	GitHub
Payton Chan	@paytchan	chanp29	paytonchan
Eric Chen	@Eric	chene40	chene40
Fondson Lu	@chubbydukki	luh57	fondsonlu
Jason Tan	@jason_tan	tanj60	tan-jason
Angela Wang	@ziyuna	wanga91	angelaw7

6 Team Member Roles

The roles listed below may be subject to change at any point throughout the term, as deemed necessary to best accommodate the needs of the project and the overall team objectives. They are currently unassigned; assignment of roles will be done every few weeks during Monday meetings to ensure that everyone has a chance at taking on certain responsibilities.

Additionally, these roles should not be seen as limiting the tasks or responsibilities one can take on. Team members are expected to step up and assume additional tasks when necessary, particularly when their expertise or skills align with the project's demands. It may also be necessary at certain times for members to "wear multiple hats" and assume more than one role.

Meeting Chair: The meeting chair's job is to ensure the group meetings are being conducted in an organized fashion and to facilitate the procedure for internal conflicts.

Meeting Secretary: The meeting secretary is responsible for preparing meeting agendas and taking notes during all group discussions. These notes are to be used for future reference and to keep track of thought processes that should be provided in the project documentation.

Milestone Coordinator: The milestone coordinator has the responsibility of facilitating the creation and completion of deliverables. They are also responsible for assuring that each deliverable meets the criteria provided and that the standard of excellence is being maintained throughout the duration of the project.

Documentation Coordinator: The documentation coordinator reviews documentation as the project progresses, ensuring that documents have a consistent level of quality and reflects the current state of the project. They work with team members to update, organize, and maintain a variety of documents, while also implementing best practices and managing version control.

QA Tester: The QA tester is responsible for evaluating software to identify bugs and ensure it meets quality standards. They design and execute test plans and collaborate with the development team to address issues, ensuring a high-quality user experience.

Systems Architect: The systems architect is responsible for designing the overall architecture of a software system, ensuring that it meets both technical and business requirements.

Frontend Specialist: The frontend specialist focuses on creating the user interface and user experience of a web application, using technologies like HTML, CSS, and JavaScript. They work to ensure that the application is visually ap-

pealing, responsive, and user-friendly, collaborating closely with designers and backend developers.

Backend Specialist: The backend specialist is responsible for server-side logic, database interactions, and application functionality. They build and maintain the core application infrastructure using programming languages and frameworks, ensuring that the frontend and backend communicate seamlessly to deliver a smooth and efficient user experience.

User Researcher: The user researcher conducts studies to understand user behaviors, needs, and motivations through methods like interviews, surveys, and usability testing. They analyze the findings to provide insights that enhance product design and development, ensuring that the final product aligns with user expectations

7 Workflow Plan

7.1 GitHub Issues

- GitHub Issues will be used to track and manage all development tasks.
 - An issue will be created for each task each task should be small enough such that one developer can finish it within a time frame of one week. If the task is too large, it should be broken down into smaller tasks.
 - All issues must include the following fields:
 - * Assignee(s) Indicates who has/will be working on the issue.
 - * Labels Information regarding the category the ticket falls under (e.g., Feature, Bug, Tech Debt, Version Bump, etc.)
 - * Milestone The milestone/deliverable that the ticket is associated with.

7.2 GitHub Projects

- GitHub Projects will be used as the project management tool to manage the roadmap and plan the project.
 - All issues should be placed in the appropriate column (Backlog, In Progress, In Review, Complete) and updated as soon as changes are made.

7.3 Git Branches

- Git Branches will be used to make changes to the project.
 - The type of development work should be noted as a prefix to the branch
 - * feat for feature work.
 - * bugfix for bugfix.
 - * chore for chore or tech debt work.
 - Branches should follow the naming convention: <prefix>/<modId>/<desc>...-<desc>.
 This is to avoid conflicting branch names and to make it clear on the topic of the change.
 - * E.g., feat/chene40/update-dependencies.
 - Feature branches should always be branched off the updated main branch.
 - Rebase branches whenever possible for pulling new updates.
 - Once desired changes are complete on a branch, the author should open a pull request (PR) and follow the below PR guidelines.

7.4 Pull Request (PR) Guidelines

- All PRs must include a descriptive title and a small description of what the PR achieved/changed.
- Upon opening a PR, the author(s) should inform the team that it is ready for review. One member of the team will be auto-assigned as a reviewer.
- All PRs must have at least one approved review before merging.
- Reviewers should review a requested PR within a **24** hr time frame (**48** hrs max).
- PR should be listed as Draft if implementation/fixes have not been completed and converted to Ready for Review once a PR can be reviewed.
- PR must be linked to an issue using the appropriate keywords at the end of the descriptions section.
- All PRs are to be **squashed and merged**. This is important for ensuring the cleanliness of the commits on the main branch.
- On push to an open PR, a GitHub Action should run which deploys the branch to a CI/CD pipeline in which all automated tests should run to ensure at least 90% line coverage. If this condition isn't met, the PR will not be allowed to be merged.

7.5 GitHub Actions

- GitHub Actions will be utilized for CI/CD to continuously deploy the application and keep it running at all times.
 - Tests, linters, and formatters will be run on each push to a PR and the main branch.
 - If a PR causes a GitHub Action to fail, it is the responsibility of the PR implementer and reviewer to resolve the issue as soon as possible so that it does not bottleneck other developers' code integrations and implementations.

7.6 GitHub Tags

 GitHub Tags will be used to mark Revision 0 and Revision 1 versions of the project for each milestone. These should only be used for final versions of each revision and not draft work.

8 Project Decomposition and Scheduling

8.1 Project Management

We will be using GitHub projects as our project management tool. It will be used to organize and view Issues on a board organized by the status of the Issue (i.e., Backlog, Ready, In progress, In review, Done), as well as to keep track of the roadmap of the project. The project can be found here GitHub Project.

8.2 Project Decomposition

The project will be decomposed into seven milestones over the duration of the term. These milestones have provisional deadlines that may be subject to change depending on the project's progress.

Milestone 0 - User Elicitation and Requirements Specification

• Deadline: Friday, October 4, 2024 @ 11.59 PM

• Estimated Time: 2 weeks

All team members are expected to actively participate in distributing surveys and conducting in-person interviews across campus. The insights gathered from these user engagements will be crucial in defining and refining our project requirements, ensuring they are aligned with real user needs and expectations.

Milestone 1 - System Design, HLDs, DFDs, and POCs of Ploutos

• Deadline: Friday, October 4, 2024 @ 11.59 PM

• Estimated Time: 2 weeks

 All team members must convene to collaboratively discuss and refine the system design. This meeting will encompass the development of highlevel designs (HLDs), data flow diagrams (DFDs), and proof of concepts (POCs). The objective is to ensure a cohesive architectural framework and to establish a well-defined workflow that will guide subsequent phases of the project.

Milestone 2 - Project Initialization & Development Environment Setup

• **Deadline:** Friday, October 11, 2024 @ 11.59 PM (Note: Last Day Before Reading Week)

• Estimated Time: 1 week

• The work will be distributed evenly among team members, unless a consultation determines that another individual should take on additional responsibilities due to extenuating circumstances. The team member responsible for setting up the repository will also create the necessary onboarding documentation. Another individual will manage group-related accounts (e.g., AWS), while a designated member will oversee workflow management, including the creation of Git issue labels, milestones, and tasks. All team members are expected to follow the installation guide provided by the repository lead and ensure proper initialization of the development environment.

Milestone 3 - Create Preliminary Figma Designs for Mobile App Workflow

- **Deadline:** Friday, November 1, 2024 @ 11.59 PM (Note: Due 2 Weeks After Reading Week)
- Estimated Time: 2 weeks
- All team members are expected to contribute to a collaborative Figma file
 to develop the necessary mockups and wireframes. Individuals with more
 experience in Figma may assume leadership roles to facilitate the design
 process, while those with less familiarity are encouraged to enhance their
 skills through active participation. It is essential that every team member
 provides valuable input, ensuring that the designs reflect a comprehensive
 and cohesive approach to the project's objectives.

Milestone 4 - Translate and Implement Figma Wireframes Into Front End Code

- **Deadline:** Sunday, December 1, 2024 @ 11.59 PM (Estimated Time: 3 Weeks Excluding Exam Season and Winter Break)
- Estimated Time: 4 weeks
- All team members are expected to collaborate in translating the Figma wireframes into functional front-end code. Individuals with more experience in front-end development may take on leadership roles to guide the implementation process, while those with less familiarity are encouraged to deepen their understanding through active involvement. It is imperative that each team member contributes their insights and expertise, ensuring that the final product adheres to the design specifications and meets the project's quality standards.

Milestone 5 - Build Out Back End API Services and Connect with Front End

• **Deadline:** Friday, February 1, 2025 @ 11.59 PM (Note: Exam Season Starts; Estimated Time: 3 Weeks)

• Estimated Time: 4 weeks

• All team members are expected to collaborate in developing the necessary back-end API services and ensuring their integration with the front-end components. Those with more experience in back-end development may assume leadership roles to oversee the implementation process, while less experienced members are encouraged to enhance their skills through active participation. It is crucial that every team member contributes their knowledge and insights, ensuring that the final services are robust, efficient, and aligned with the overall project objectives.

Milestone 6 - E2E Test, Cleanup, Final Deploy and Showcase for Expo

• Deadline: Friday, February 15, 2025 @ 11.59 PM

• Estimated Time: 2 weeks

 All team members are expected to collaborate in performing end-to-end testing as a cohesive unit. This collaborative effort will provide an opportunity to identify and resolve any lingering bugs, refine necessary documentation, and collectively prepare for the Expo showcase. It is imperative that each member contributes their insights and expertise, ensuring that the final product is polished and ready for presentation.

Milestone 7 - Final Documentation

• Deadline: Wednesday, April 2, 2025 @ 11.59 PM

• Estimated Time: 2 weeks (Start March 16, 2025 or earlier)

• It is crucial that the project team engages in a collaborative effort to aggregate and meticulously refine all pertinent documents, including the user guide, requirements, and design documentation, approximately two weeks prior to the submission deadline. This coordinated approach will facilitate thorough review and revision, ensuring that all materials are cohesive, accurately reflect the project's objectives, and adhere to the highest standards of quality. Such diligence will be paramount for a successful final submission.

Milestone 3-6 - Integrate and Train Optical Character Recognition (OCR) Model Into Scanner (To Be Completed Concurrently Starting Milestone 3)

- Training Period: October 21, 2024 March 21, 2025
- All team members are required to actively engage in the training of our OCR machine learning model. Each member must collect and retain receipts as inputs for the model whenever feasible, as these inputs are critical for facilitating continuous testing and refinement. These receipts should be uploaded to the shared Drive folder. This iterative training process is to be conducted concurrently with other development activities for the application, ensuring that the model not only evolves in response to real-world data but also integrates seamlessly with the overall project. By committing to this collaborative effort, the team will enhance the model's accuracy and reliability, ultimately contributing to the success of the application.

9 Proof of Concept Demonstration Plan

9.1 Plan for Proof of Concept Demonstration in November

Demonstrate a working application that can perform the following functionalities:

- 1. From the application, the user can choose to upload a picture from their photo library. The picture should be a receipt from a store.
- 2. The application passes the uploaded photo to the backend, where it then gets processed through the OCR library.
- 3. After parsing text from the receipt, the data will be processed through a ML model, which will categorize items from the receipt.
- 4. The processed data (parsed items and categorization) will be returned and displayed to the user.

9.2 Anticipated Risks and Mitigation Plan

- Data Accuracy and Reliability: The ML model might misinterpret or misclassify data from receipts, leading to incorrect financial records.
 - Risk level: High, as it might take more data than anticipated to train a model to recognize and classify items appropriately.
 - Mitigation plan: We will train the model using a large dataset of receipts that contains various items from different categories, and then test the model to verify the accuracy of the results. An alternative option to manually edit the price, category, date/time, and other metadata fields about the items recorded will be provided, and this would be used as feedback to improve the model.
- Optical Character Recognition (OCR) Limitations: Poor-quality receipts (faded text, creases, or low resolution) may hinder OCR performance, leading to incomplete or inaccurate data extraction.
 - Risk level: Medium, as we plan to use a good quality receipt (i.e., laid out flat on a table, newly printed) for the POC demonstration.
 - Mitigation plan: We will initially train the model using good quality receipts. Over the course of the training process, we plan to introduce lower-quality receipts and use advanced pre-processing techniques (e.g., noise reduction, image enhancement) to increase the accuracy of parsing lower-quality data. For the POC demonstration, we plan to use a good quality receipt for the purpose of showing the base functionality of the model.

- Model Generalization and Adaptability: The ML model may struggle with adapting to new types of receipts, retailers, or products that it hasn't encountered during training, resulting in misclassifications.
 - Risk level: Low, in terms of the POC demonstration. We plan to demonstrate using a receipt that lists commonly purchased items for the purpose of showing the feasibility of the model.
 - Mitigation plan: For the first iteration of the model, we plan to target specific stores near campus (e.g., Food Basics, Fortinos, Shoppers Drug Mart, Walmart, Costco) as we will be able to collect the most amount of data from these locations and monitor the accuracy of the model. As the project progresses, we will expand to different categories and stores.
- Privacy and Data Security: Handling sensitive financial data (such as purchase histories and personal information) poses the risk of data breaches or unauthorized access.
 - Risk level: Low, as we do not plan to release the application before
 the POC. We will only be testing locally with our team of developers,
 so there would be no unauthorized access.
 - Mitigation Plan: To mitigate privacy and data security risks during the POC, sensitive financial data will be encrypted both at rest and in transit, with access restricted to authorized developers using role-based controls. Anonymized or synthetic data will be used for testing, and local development environments will be hardened with strong passwords, disk encryption, and up-to-date software.
- User Experience: If the app struggles with receipt clarity, formatting inconsistencies, or unusual items, users might become frustrated.
 - Risk level: Low, as we plan to make user experience a priority.
 - Mitigation plan: We will conduct usability testing as part of our project, where users will test the app and give feedback on points of improvement for the receipt scanning workflow. For the POC demonstration, we plan to show the key functionality of taking a photo of a receipt and displaying the outputs of the model on the screen. Wireframes will be designed prior to development to ensure that the user interface and experience is well thought out.
- Scalability and Performance: As the user base grows, handling a large volume of receipt uploads and processing requests in real-time could impact system performance and user experience.
 - Risk level: Low, in terms of performance for the POC plan. We are unsure how fast the model would be able to process an image and return the information that we would need. Scalability is not a risk for the POC plan but is important to consider for future development.

- Mitigation plan: We will run load testing and stress testing simulations to show the app's capacity to handle increasing numbers of users and transactions without degradation in response time or accuracy. This does not apply for the POC demonstration but is important to consider for future development.

10 Expected Technology

The following lists the technology that we expect or are considering to use for the project. Note that these are subject to change over the course of the project.

• Programming languages

- Frontend: React Native, TypeScript, Dart/Flutter
- Backend: Python, Golang, AWS

• Libraries

- Utility CSS Library: Tailwind, MUI, Bootstrap, Css-in-js, Styled Components
- Authentication: Auth0, Firebase

• Tools

- Database: MongoDB, Firebase, Amazon DynamoDB

• OCR models

- Tesseract OCR
- Google Vision API
- Amazon Textract

• Linter tools

- eslint
- typescript-eslint

• Testing frameworks

- Jest (Unit)
- Mocha/Chai (Unit)
- React Native Testing Library (Unit + Integration)
- Detox (E2E)
- Maestro (UI & Flow Tests)

• Continuous integration (CI)

 GitHub Actions for running tests, linting, formatting. More details on CI plan can be found in Section 7.

• Version control

- Git, GitHub

• Project management

GitHub projects

11 Coding Style/Standards

- Most of the code styling will be done via third party formatters and linters such as Prettier and ESLint. These formatters/linters will be implemented directly into the project itself via Git Hooks and will be triggered on every pre-commit via Husky.
- As a basis for committing changes, every commit should be atomic and contain one change pertaining to a specific feature/fix.

• Commit Messages:

- All commit messages should be systematic and descriptive.
- All commit messages should be written in present imperative tense
 - * Correct: "Fix typo in README"
 - * Incorrect: "Fixed typo in README"
- All commit messages should begin with one of the following prefixes:
 - * feat: for feature and enhancements related implementations
 - * fix: for bug fixes and tech debt related fixes
 - * chore: for project related commits such as bumping project/dependency versions, file renames/relocations, etc.
- Example commit messages:
 - * feat: generate openapi ts client based on api_spec.yaml
 - \ast fix: change color of CTA button from red to blue
 - * chore: reorganize file structure hierarchy
- We will use PEP 8 style guides for Python code

12 Appendix — Reflection

1. Why is it important to create a development plan prior to starting the Project?

Creating a development plan before starting the project is crucial so the whole team can discuss/agree upon the key project details and scope. It is vital to lay out the groundwork for our project and define the direction needed to achieve our goals optimally. We found it especially important to discuss team dynamics – specifying meeting details, expectations from each member of the team, and the general workflow plan. Defining these elements upfront helps keep everyone aligned and organized before we dive into the project details and implementation. Breaking down the project into high-level milestones allows us to create well-defined and achievable timelines to guide our progress.

2. In your opinion, what are the advantages and disadvantages of using CI/CD?

We believe that CI/CD is a great tool due to it allowing automation and quality control within our development workflow. This significantly reduces manual testing labour and saves time which will be crucial for the development of the Plutos app. We aim to at least include running tests, linters, and formatters within our CI pipeline so that we may be confident that all changes made meet a certain quality level. One drawback that we will need to be aware of is that the setup of the CI/CD pipeline may pose a challenge due to the team's lack of experience in setting up such a workflow. Having too much automation could lead us to have false confidence in our code, especially if our test coverage is not meeting standards due to rapid development. It's important not to rely too heavily on the CI/CD pipeline and understand that it's a tool that is meant to help gauge the overall quality of our code and not something that will replace manual testing.

3. What disagreements did your group have in this deliverable, if any, and how did you resolve them?

Our team had differing opinions when we discussed the timeline of our project. Some members felt we could reduce the time allocated for end-to-end testing from five weeks to three, while others preferred to extend the frontend and backend development by an additional week. We also had discussions for how much buffer time was needed to account for potential delays. After some discussion, we came to an agreement that the frontend and backend could be done in parallel, allowing us to dedicate 6 weeks to both sections. These differences were ultimately resolved through mutual understanding, as many of us would be unavailable during exam season in December and January. What ultimately helped us resolve our differences was the fact that we all remained realistic about potential challenges we might face in the future.

13 Appendix — Team Charter

13.1 External Goals

The team's objectives are to gain proficiency in AI/ML and to develop a well functioning application to showcase (and for people to try out) at the Capstone Expo. We also aim for the code and application to be clean and presentable for potential interviews.

13.2 Attendence Exceptions

All team members are expected to attend meetings. If a member will be arriving late or leaving early for any reason, it is their responsibility to communicate this beforehand and ask the team for a summary of what they missed. If a member cannot attend a meeting, they must present an acceptable excuse to the team before the meeting or ask for the meeting to be rescheduled.

13.3 Acceptable Excuse

Acceptable:

- Medical reasons personal illness, doctor appointments, or urgent medical issues.
- Family emergency unexpected situations involving immediate family members, such as accidents or serious health issues.
- Work-related conflicts overlapping meetings, urgent project deadlines, or unavoidable last-minute tasks.
- **Technical difficulties** internet or equipment failure preventing participation in virtual meetings.
- **Personal emergencies** accidents, sudden household issues (e.g., plumbing, electricity), or car breakdowns.
- Scheduled academic course a mandatory class or lecture that overlaps with the meeting time.

Not-acceptable:

- Oversleeping or poor time management
- Forgetting the meeting or deadline
- Conflicting social plans or events
- Claiming ignorance of the meeting or deadline
- Being "too busy" with other tasks without prior communication

13.4 In Case of Emergency

- Immediately notify the team
- Provide details about the situation and the expected impact on their availability
- If possible, share any work completed so far or delegate responsibilities to ensure the team can continue without delay
- Communicate updates on their availability as the situation progresses

13.5 Accountability and Teamwork Quality

Our team holds high expectations for the quality of work and preparation of meetings. Each member is expected to review relevant materials, contribute meaningful insights, and come prepared with suggestions and/or updates. In terms of deliverables, we prioritize accuracy, clarity, and adherence to any predefined guidelines or deadlines. Every contribution should reflect a high standard of professionalism, ensuring that it supports the team's objectives and maintains the overall quality of our collaborative efforts.

13.6 Attitude

All team members should:

- Be respectful of each other's ideas and perspectives.
- Approach problems with an open mind; disagreements should be expressed respectfully and non-aggressively.
- Aim to contribute a similar amount of work as other team members.
- Ask for help on a task if needed; do not spend an unreasonable amount of time being stuck on a task without external support.
- Stay up to date with project progress and share updates on one's own progress.

If a conflict arises with another member, those members should discuss it directly with the intention to resolve the issue cordially. If no resolution was achieved, the members must discuss the conflict with the team for the team's opinions.

13.7 Stay on Track

 GitHub Project Board and Issues: The team will use a GitHub project board to track tasks, assign issues, and monitor progress. Each member is expected to update their assigned tasks regularly and close issues when they are completed Development Plan: The team will follow the development plan outlined.
 Milestones, deadlines, and deliverables will be reviewed on the predetermined due dates

• Performance Management:

- Rewards: Members who consistently meet or exceed expectations will receive recognition within the team and maybe a free bubble tea from their favourite tea shop!
- Underperformance: Members who fail to contribute or consistently miss targets without valid reasons. Members can make up by taking on additional tasks or making up lost time.
- Consequences for Missing Targets: If a team member consistently fails to meet contribution targets, the team will discuss with the member to understand why this may be happening and offer support.

13.8 Team Building

We will host a semi-competitive badminton tournament across members during McMaster Pulse drop-ins at least once per month. Other sport competitions may be discussed and considered, with possible suggestions being a maximum repetition bicep curl competition, a dynamic rock climbing move, and a maximum duration plank hold. We will also go out for bubble tea every other week to complain about our school workload and job applications.

13.9 Decision Making

In the event of a disagreement within the team, we will conduct a vote, and the decision will be based on the majority consensus. However, for critical decisions, a unanimous vote will be required from all team members before proceeding. The team will be consulted for all decisions so they may be thoroughly discussed.