Group 01

Foodaholic
Software Development Plan
Version 1.0

Revision History

Date	Version	Description	Author
01, Jun, 2022	1.0	Initial Release	Lê Trọng Anh Tú

Table of Contents

Introduction **4**

Project Overview **4**

Project Purpose, Scope, and Objectives *4*

Assumptions and Constraints *4*

Project Deliverables *4*

Project Organization **5**

Organizational Structure *5*

Roles and Responsibilities *5*

Management Process **6**

Project Estimates *6*

Project Plan *6*

Project Assignment 1 6

Project Assignment 2 8

Project Assignment 3 8

Project Assignment 4 9

Project Assignment 5 9

Project Assignment 6 11

Project Monitoring and Control 12

Reporting 12

Risk Management 12

Configuration Management 12

Software Development Plan

1. Introduction

The introduction of the **Software Development Plan** provides an overview of the entire document.

The purpose of this Software Development Plan is to gather all information necessary to control the project. It describes the approach to the development of the software and is the top-level plan generated and used by managers to direct the development effort.

The following people use the *Software Development Plan*:

- **The project manager** uses it to plan the project schedules and resource needs, and to track progress against the schedule.
- **Project team members** use it to understand what they need to do, when they need to do it, and what other activities they are dependent upon.

This *Software Development Plan* describes the overall plan to be used by the Foodaholic project, including deployment of the product. The details of the individual iterations will be described in the Iteration Plans.

The plans as outlined in this document are based upon the product requirements as defined in the *Vision Document.*

2. Project Overview

2.1. Project Purpose, Scope, and Objectives

About its purpose, this project is about assisting the end users overtaking the culinary tendency, seeking appropriate cooking recipes, and better computing their daily nutrition intake to stay a healthier lifestyle.

Overall, the application will suggest a box presenting some trending foods, recipes, and cooks for the clients. Their surfing experience is also optimized by its allowance to search and filter output results or input requirements. Additionally, in the personal account page, there will be a calculator and graphs to save and show their everyday nutrition consumption.

2.2. Assumptions and Constraints

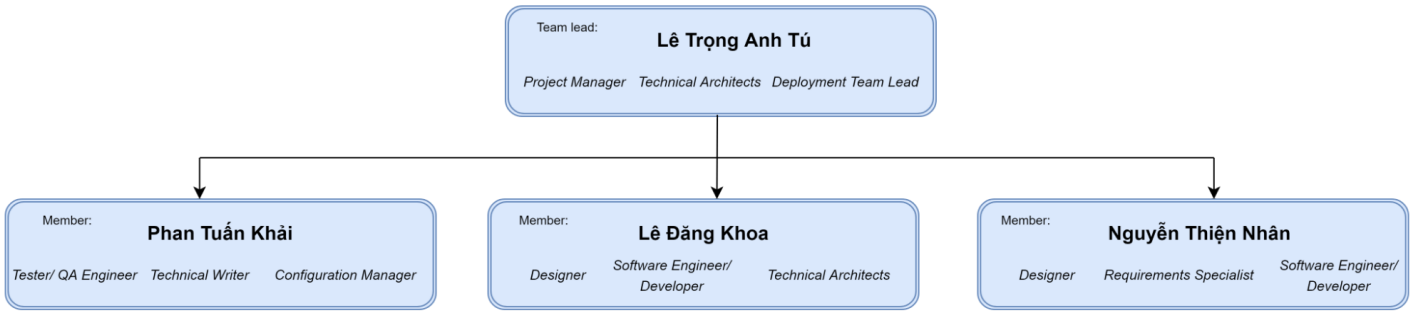
- Project has a fixed schedule of 12 weeks.
- Zero-budget project without publishing website or small-budget project to publish a real website.
- Project has 4 people, there will be more people added during the project.
- Focus on suggesting foods, searching, filtering, sorting, and calculating daily nutrition intake.

2.3. Project Deliverables

- Product Backlog: 12/8/2022
- Sprint Backlog: 12/8/2022
- Source Code: 12/8/2022
- Web Application: 12/8/2022

3. Project Organization

3.1. Organizational Structure



3.2. Roles and Responsibilities

Role	Responsibility
Project Manager	Responsible for managing the overall Project Management discipline. Plan and Develop the Project Idea Organizing and motivating a project team Monitor Project Progress and Set Deadlines Ensure Stakeholder Satisfaction He allocates resources, shapes priorities, coordinates interactions with the customers and users, and generally tries to keep the project team focused on the right goal.
Technical Architect	Determine organization needs and identify system specifications. Analyze the needs of large systems and breaking them down into smaller manageable parts Plan and design the structure of technology systems, discuss these with the client Communicate system requirements to software designers and developers; explain system structure to them and provide assistance throughout the assembly process.
Deployment Team Lead	Leading the team responsible for installation activities. Managing the resource of time Managing the deployment deliverables Keeping the team close-knit
Tester / Quality Assurance Engineer	The Tester is responsible for executing testing, including test set-up and execution, evaluation of test execution and recovery from errors, and assessing the results of test and logging identified defects
Technical Writer	Writes and edits technical documents including reference manuals and product manuals. Writes and edits procedural documentation such as user guides and manuals. Meets with engineers, programmers, and project managers to learn about specific products or processes.

Configuration Manager	Managing the day-to-day activities of the process, including establishing priorities and work assignments. Participates in an extended Project Management Team.
Designer	Develop illustrations, logos and other designs using software or by hand. Prepare rough drafts and present ideas Conceptualize visuals based on requirements. Amend designs after feedback
Developer	Researching, designing, implementing, and managing software programs Work with other developers to design algorithms and flowcharts Produce clean, efficient code based on specifications Troubleshoot, debug and upgrade existing software Configuration Manager Create technical documentation for reference and reporting
Requirements Specialist	Review diagnostics and assess the functionality and efficiency of systems Captures the specification of a part of the system's functionality by describing the Requirements aspect of one or several use cases and other supporting software requirements.

4. Management Process

4.1. Project Estimates

None.

4.2. Project Plan

Note: The plan shall be altered in the future if there are any problems occur.
Our project have 3 phases (Inception, Elaboration and Construction) and 6 Sprints (6 PAs)

- Inception: 30/05/2022 - 19/06/2022
- Elaboration: 20/06/2022 - 17/07/2022
- Construction: 18/07/2022 - 12/08/2022

For more details of each phase, please see the following 6 PAs.

4.2.1. Project Assignment 1

Inception phase

Starting date: 30/05/2022

Ending date: 05/06/2022

Output: documents about the introduction of the project, all tasks in this project, define the problem statements and product position statement and product features in project

We also divided it into 2 small parts, and all tasks in Sprint 1 are utterly written documentation.

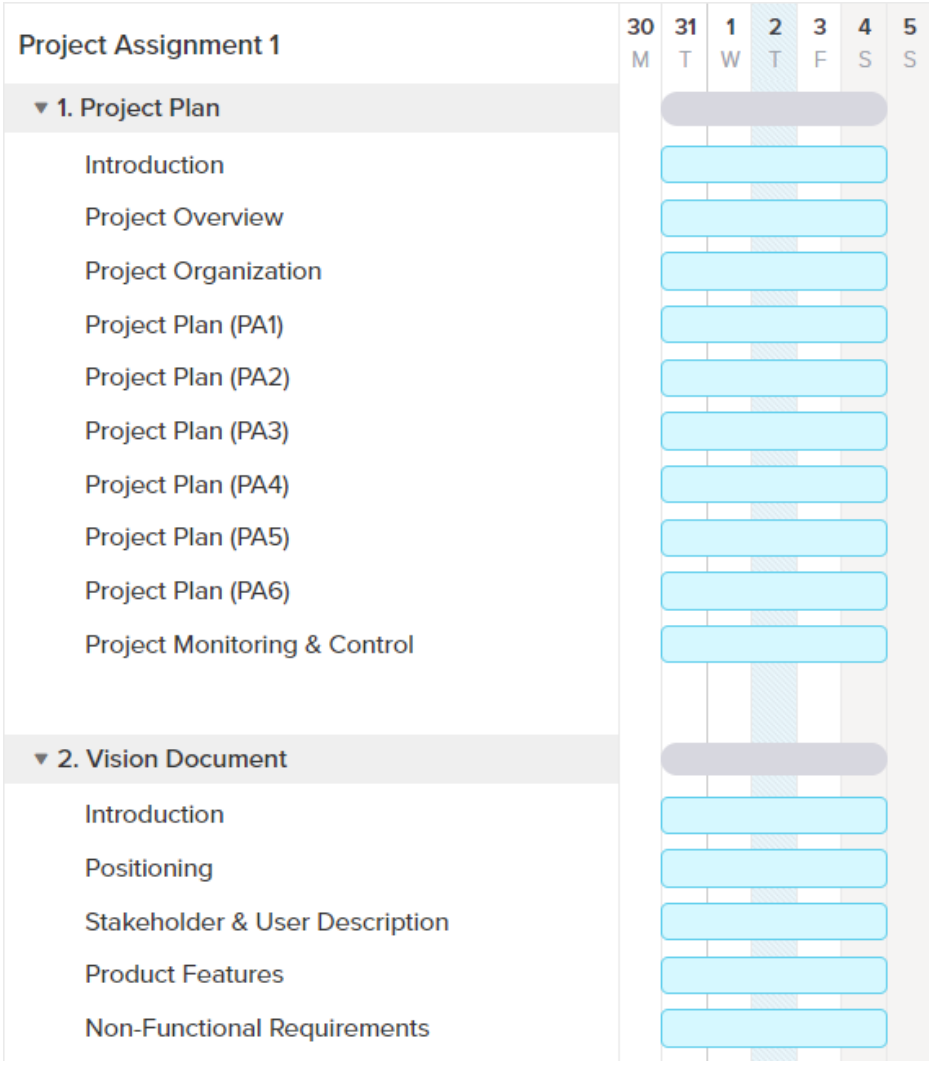
1. Project Plan:

- Introduction: Phan Tuan Khai
- Overview about this project: Nguyen Thien Nhan
- Project organization: Le Dang Khoa
- Project Plan for 6 PAs: All members
- Project Monitoring and Control: Le Trong Anh Tu

2. Vision Documents:

- Introduction: Phan Tuan Khai
- Positioning: Le Dang Khoa
- Stakeholder & User descriptions: Le Trong Anh Tu
- Product Features: Nguyen Thien Nhan
- Non-Functional Requirements: Phan Tuan Khai

Gantt chart:



4.2.2. Project Assignment 2

Inception phase

Starting date: 06/06/2022

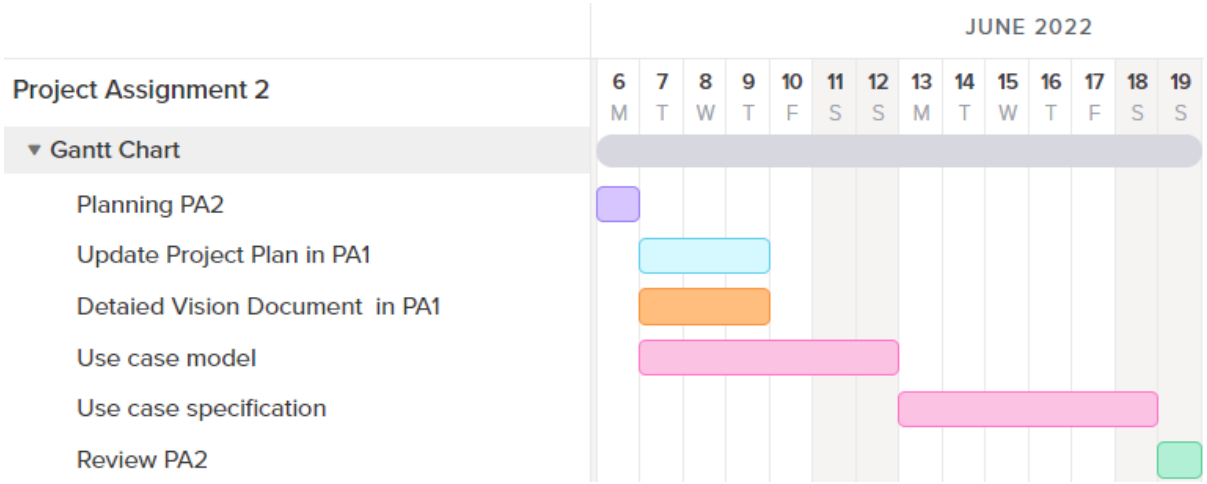
Ending date: 19/06/2022

Output: updated and detailed documents about Project Plan & Vision Documentation in Sprint 1, and Use-case specification document

Tasks:

- Update Project Plan: Phan Tuan Khai
- Detailed Vision Documentation: Le Trong Anh Tu
- Use case model: Nguyen Thien Nhan & Le Dang Khoa
- Use-case specification: All members

Gantt chart:



4.2.3. Project Assignment 3

Elaboration phase

Starting date: 20/06/2022

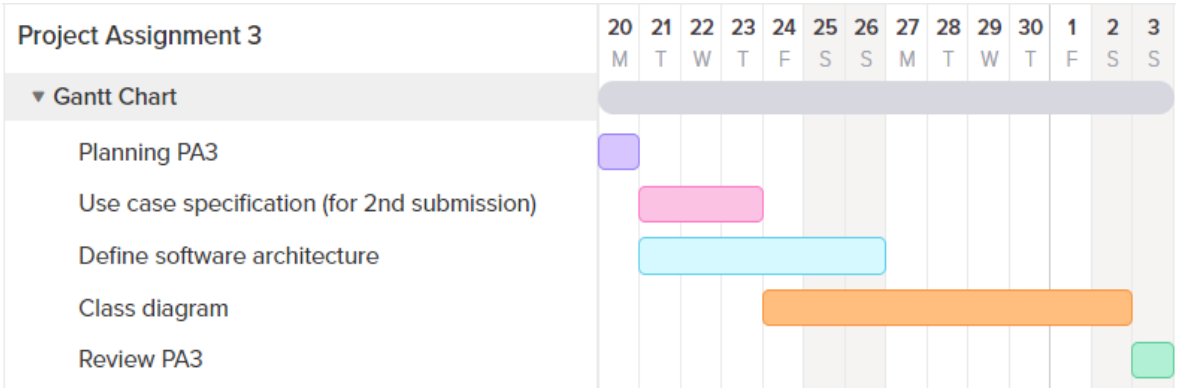
Ending date: 03/07/2022

Output: more detailed in use-case specification which is submitted in Sprint 2, documents about define software architecture and class diagram

Tasks:

- Use-case specification (for 2nd submission): Nguyen Thien Nhan
- Define software architecture with provided template: Le Trong Anh Tu + Le Dang Khoa + Phan Tuan Khai
- Class diagram: All members

Gantt chart



4.2.4. Project Assignment 4

Elaboration Phase

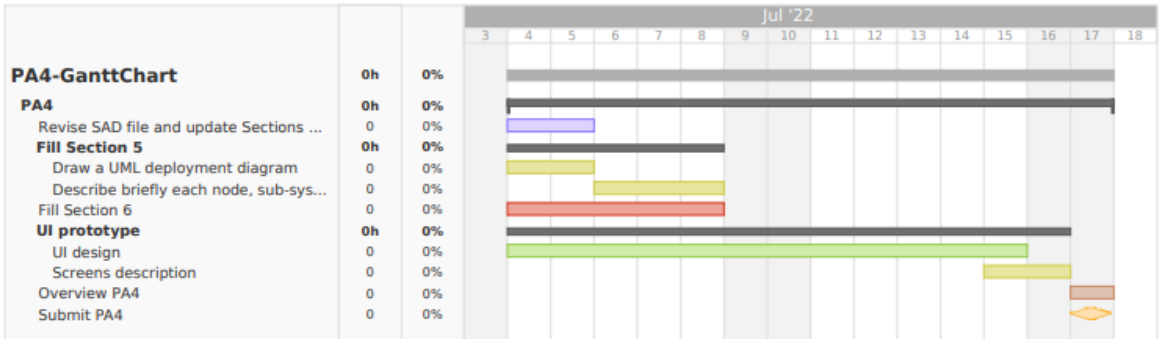
Start: 4/7/2022

End: 17/7/2022

Task:

- Revise SAD file and update Sections 1-4: Le Trong Anh Tu
- Fill Section 5: Le Dang Khoa
- Fill Section 6: Phan Tuan Khai
- UI prototype: Nguyen Thien Nhan
- Overview PA4: All members

Gantt Chart



4.2.5. Project Assignment 5

Construction Phase

Starting date: 18/07/2022

Ending date: 31/07/2022

Task:

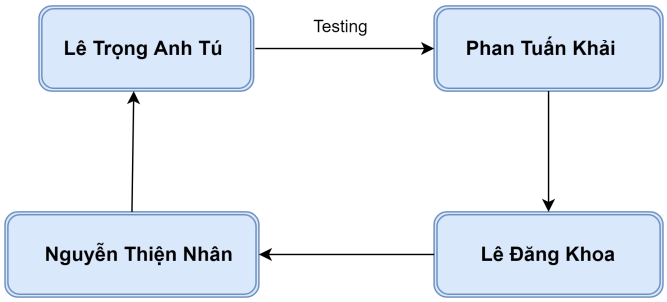
- **Implement Key Feature listed in PA0 base on UI prototype in PA4**

1. Account function: ● Sign in, sign up, sign out ● Edit information, avatar, cover, etc ● Change username, password ● Follow other cooks, users ● Post some recipes, add recipes to “My favorite”	Nguyễn Thiện Nhân
● Like, comment, notification ● List of my likes, comments, posts 2. Admin’s functions: delete posts, comments, suspend accounts. 3. Report posts to admins.	Lê Trọng Anh Tú
4. Detailed description of cooking steps. 5. Foods, recipes, cooks trending now. 6. Search and show food recipes: ● By input ***keywords*** ● By input ***ingredients*** the user has to cook. 7. Filter input requirements. 8. Filter found results	Lê Đăng Khoa
9. Share posts, recipes to some social media (Facebook, Instagram, Youtube, etc.). 10. Sort found results. 11. A site to show nutrition in each type of food (how many calories, carbohydrates, fats, proteins, sodium, etc.). 12. Calculate daily comsuming nutrition and calories and visualize data by graphs compared to daily standards.	Phan Tuấn Khải

- **Test plan:**
  - 1. Introduction and 4.1 People and Roles: Phan Tuấn Khải
  - 2. Target test items: Nguyễn Thiện Nhân
  - 3.1 Hardware Requirements: Lê Trọng Anh Tú
  - 3.2 Software in the Test Environment, 3.3 Productivity and Support Tools: Lê Đăng Khoa

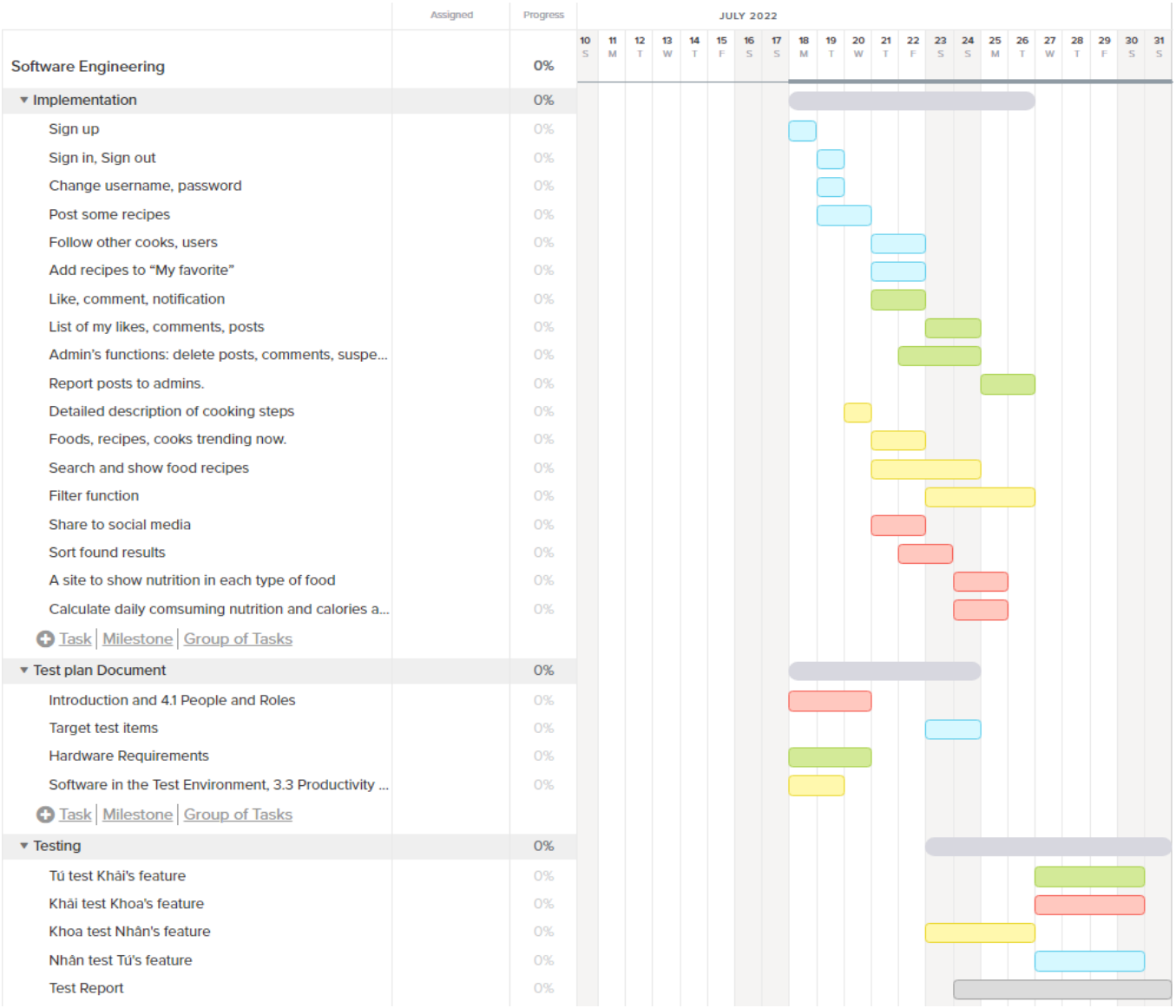
- **Test case:**

Our team will conduct cross-testing of teammates' functions, according to diagram:



- **Test report: All members need to record during testing**

Gantt Chart:



4.2.6. Project Assignment 6

Construction Phase

Start: 01/08/2022

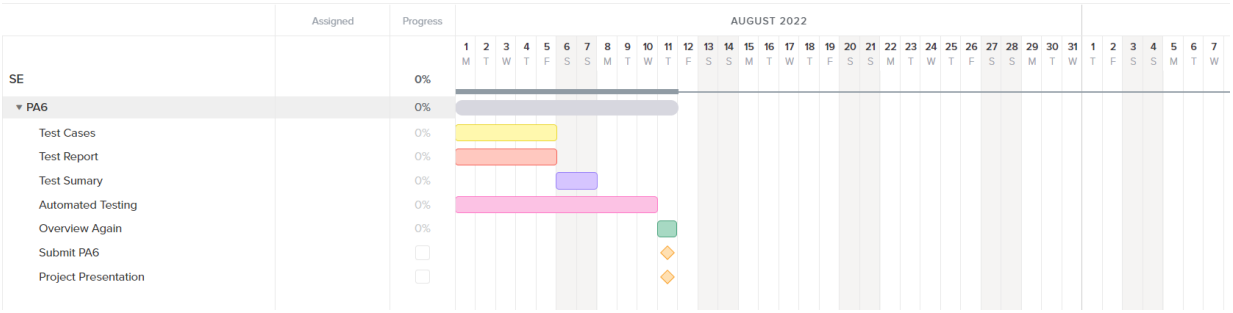
End: 12/08/2022

Task:

- Test case - All members
- Test Report - All members
- Test Summary - All members

- Automated Testing - All members

Gantt Chart



4.3. Project Monitoring and Control

4.3.1. Reporting

You can see the project status through:

- Weekly status reports in our Google Drive/Github repository (Planning, Weekly, and Review for each Sprint)
- Documentations for each Sprint are also in our Google Drive/Github repository
- Trello to see which tasks are going to do, which tasks are doing and which tasks are completed
- Slack (or Discord/Messenger) to see the discussion of our team

4.3.2. Risk Management

None.

4.3.3. Configuration Management

Our group uses the following tools for storage and sharing source code and files, such as:

- Google Drive: documents and reports (1 Planning, 2 Weekly, and 1 Review) for each sprint
- Github repository: managing/sharing source code (clone to synchronize with a computer, pull to update source code to the newest version, and push to push the source code to Github) and related files like Google Drive