
GROUP 05

Awn Anw
Software Development Plan (Small Project)
Version 1.1

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Revision History

Date	Version	Description	Author
01/07/2023	1.0	Initial release	Context Integration
22/07/2023	1.1	Update project schedule	Tran Thi Thanh Van

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Table of Contents

1. Introduction	4
1.1 Purpose	4
1.2 Scope	4
1.3 Overview	4
1.4 References	4
2. Project Overview	4
2.1 Project Purpose, Scope, and Objectives	4
2.2 Assumptions and Constraints	4
2.3 Project Deliverables	4
3. Project Organization	5
3.1 Organizational Structure	5
3.2 Roles and Responsibilities	5
4. Management Process	6
4.1 Project Estimates	6
4.2 Project Plan	6
4.2.1 Phase Plan	6
4.2.2 Iteration Objectives	7
4.2.3 Releases	7
4.2.4 Project Schedule	7
4.2.5 Project Resourcing	10
4.3 Project Monitoring and Control	10
4.3.1 Requirements Management	10
4.3.2 Reporting and Measurement	10
4.3.3 Risk Management	10
4.3.4 Configuration Management	10

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Software Development Plan (Small Project)

1. Introduction

The introduction of the **Software Development Plan** provides an overview of the entire document. It includes the purpose, scope, definitions, abbreviations, references, and overview of this **Software Development Plan**.

1.1 Purpose

The purpose of the *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 schedule 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.

1.2 Scope

This *Software Development Plan* describes the overall plan to be used by the **Awn Anw** project, including deployment of the product.

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

1.3 Overview

This *Software Development Plan* contains the following information:

Project Overview — provides a description of the project's purpose, scope, and objectives. It also defines the deliverables that the project is expected to deliver.

Project Organization — describes the organizational structure of the project team.

1.4 References

Applicable references are:

1. GrabFood: <https://www.grab.com/vn/food/>
2. Baemin: <https://baemin.vn/>
3. ShopeeFood: <https://shopeefood.vn/>
4. **Awn Anw**'s vision document

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

This project is a food delivery web app for HCMUS-students to easily **order** food & drink in **District 5** and then the merchants will deliver to them.

The main reason why we develop this project is helping students to order food and drink at lunch time without going out of school and having more time to rest (and serving the needs of students). In other aspects, this not only helps students have enough nutrition to continue study, but it also improves sales demand in merchants.

2.2 Assumptions and Constraints

The system must be available in time, especially before the final exam.

2.3 Project Deliverables

The final product is a perfect web app that can attend to the users' needs.

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

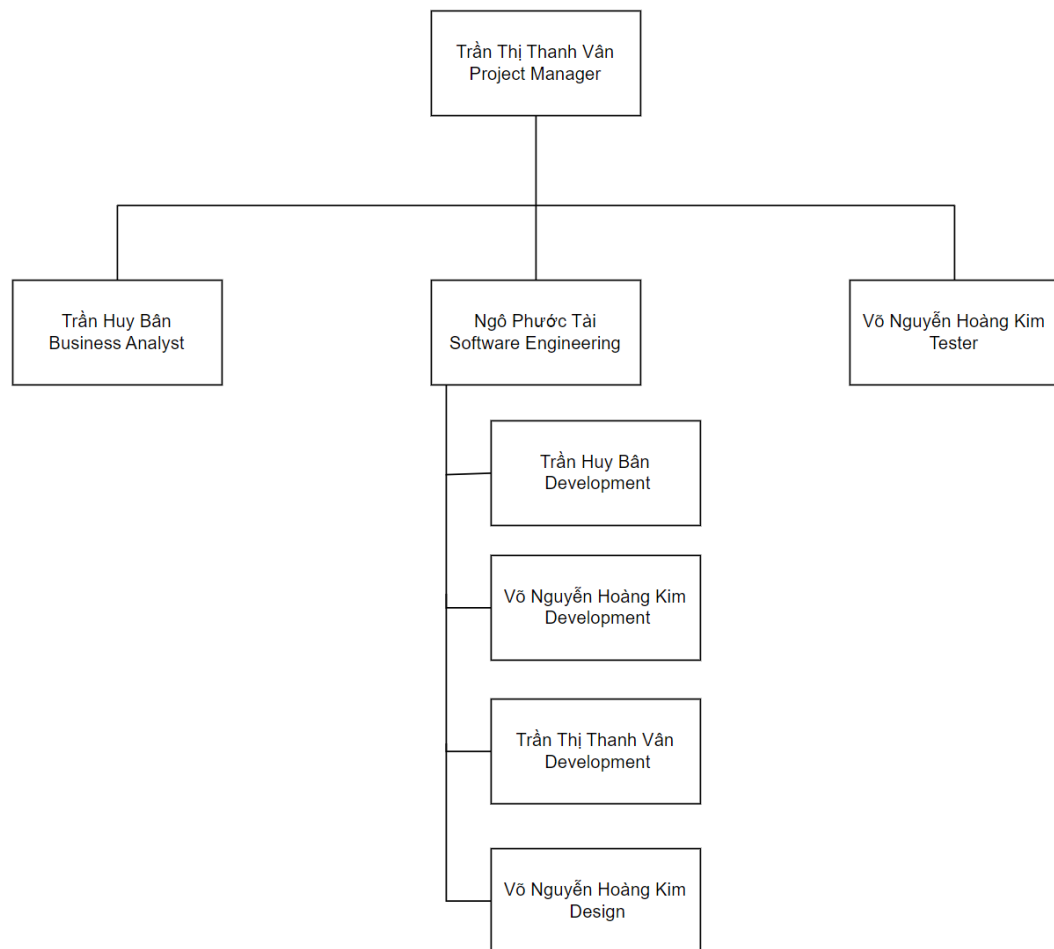
Some of deliverables will be produced during the project:

- Business Use Cases
- User Interface Prototype
- Design Model
- Database Design
- Software Architecture Document
- Test Package
- Test Summary

Deliverables for each project phase are identified in the Development Case.

3. Project Organization

3.1 Organizational Structure



3.2 Roles and Responsibilities

Person	Role	Responsibility
Trần Thị Thanh Vân	Project Manager	Responsible for the team's progress.

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

	Developer (Front-end)	Build layouts of the web.
Trần Huy Bân	Business Analyst Developer (Back-end)	Analyzes demands of stakeholders. Manage database of the web.
Ngô Phước Tài	Software Engineering Leader Developer (Back-end)	Responsible for the system's progress. Manage database of the web.
Võ Nguyễn Hoàng Kim	Designer Developer (Front-end) Tester	Design layouts of the web. Build layouts of the web. Test the overall system.

4. Management Process

4.1 Project Estimates

This project will take 10 weeks to complete. The web application uses the free-plan of Firebase services, so no cost is required. When users' requirements change, the project will be re-estimated.

4.2 Project Plan

4.2.1 Phase Plan

The development of the will be conducted using a phased approach where multiple iterations occur within a phase. The phases and the relative timeline is shown in the table below:

Phase	No. of iterations	Start	End
Inception	1	19/06/2023	01/07/2023
Elaboration	1	03/07/2023	15/07/2023
Construction	3	17/07/2023	26/08/2023

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

The milestones that mark the end of each phase can be seen in the table below:

Phase	Milestones
Inception	The Inception Phase will develop the product requirements. The major use cases will be developed as well as the high level Project Plan.
Elaboration	The Elaboration Phase will analyze the requirements and will develop the architectural prototype. At the completion of the Elaboration Phase, all use cases will have completed analysis and design.
Construction	The Beta version for Release 1.0 will be developed and distributed for evaluation. The implementation and test activities will be completed. The Release 2.0 operational capability milestone marks the end of the Construction Phase.

4.2.2 Iteration Objectives

Phase	Iteration/Sprint	Objectives
Inception	Sprint 1	Project plan Vision document
Elaboration	Sprint 2	Use-case specification document UI prototype Database design
Construction	Sprint 3	Software architecture document
	Sprint 4	Initial release
	Sprint 5	Test plan and test cases Full release

4.2.3 Releases

Two releases are planned. The first, which is a beta version, must be complete at the end of sprint 4. Any defects found will be fixed to provide the full release at the end of sprint 5.

4.2.4 Project Schedule

The schedules for each sprint are detailed as below:

- Sprint-1 schedule:

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Task	Assignee	Week 1						Week 2					
		19-Jun	20	21	22	23	24	3-Jul	4	5	6	7	8
Fill out section 1, 2, 6 of the vision document and section 4.3 of the plan document	NPTai												
Fill out section 3 of the vision document and section 3 of the plan document	VNHKim												
Fill out section 4 of the vision document and section 4.2 of the plan document	TTTVan												
Fill out section 5 of the vision document and section 1, 2 of the plan document	THBan												
Coding training	NPTai, VNHKim, TTTVan, THBan												
Design UI	VNHKim, TTTVan												
Design database structure	THBan, NPTai												
Setup project	TTTVan												

- Sprint-2 schedule:

Task	Assignee	Week 1						Week 2					
		10-Jul	11	12	13	14	15	17	18	19	20	21	22
Update the project plan	THBan												
Update the vision document	VNHKim												
Design the use-case diagram	NPTai												
Detail each use-case in the use-case specification document	NPTai, VNHKim, TTTVan, THBan												
Coding training													
Code Signin - Signup page for customer (FE)	TTTVan												
Code Home page for customer (FE)	VNHKim												

- Sprint-3 schedule:

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Task	Assignee	Week 1							Week 2				
		24-Jul	25	26	27	28	29	31	1-Aug	2	3	4	5
Revise use-case specification	THBan												
Describe each component in detail in the Logical View section of the SAD	NPTai, VNHKim, TTTVan, THBan												
Fill section 1, 2, 3 of the SAD	NPTai												
Code Signin - Signup page for customer (FE)	TTTVan												
Code Signin - Signup function for customer (BE)	THBan												
Code Home page for customer (FE)	VNHKim												
Fetch categories to display in home page for customer (BE)	NPTai												
Code Signin - Signup page for merchant (FE)	TTTVan												
Code Signin - Signup function for merchant (BE)	THBan												
Code Home page for merchant (FE)	VNHKim												
Fetch merchant info for home page (BE)	NPTai												
Create shop-list-by-category page (FE)	TTTVan												
Fetch shop data for list page (BE)	THBan												
Create cart popup (FE)	VNHKim												
Fetch cart data for cart popup (BE)	NPTai												
Create menu page for customer (FE)	VNHKim												
Fetch menu data for menu page (BE)	NPTai												
Create order detail page for customer (FE)	TTTVan												
Fetch order data for order detail page (BE)	THBan												
Code add/delete food event in cart (FE)	VNHKim												
Code add/delete food function in cart (BE)	NPTai												
Code order-placing event and order-status page (FE)	TTTVan												
Code order-placing function (BE)	THBan												
Fetch order status for order-status page (BE)	NPTai												

- Sprint-4 schedule:

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

Task	Assignee	Week 1						Week 2					
		7-Aug	8	9	10	11	12	14	15	16	17	18	19
Revise the SAD submitted in PA3	TTTVan												
Fill section 5 of the SAD	THBan												
Fill section 6 of the SAD	NPTai												
Describe UI prototype in document	VNHKim												
Create menu page for merchant (FE)	TTTVan												
Fetch menu detail data for merchant (BE)	THBan												
Create order page for merchant (FE)	VNHKim												
Fetch order detail data for merchant (BE)	NPTai												
Code create/update/delete food event in menu for merchant (FE)	TTTVan												
Code create/update/delete food function in menu for merchant (BE)	THBan												
Code order-status-updating event for merchant (FE)	VNHKim												
Code order-status-updating function (BE)	NPTai												
Code Home page for admin (FE)	VNHKim												
Code search screen for customer (FE)	TTTVan												
Code search function for customer (BE)	THBan												
Code user list page and merchant list page for admin (FE)	VNHKim												
Fetch user data and merchant data for list page (BE)	NPTai												
Code category-managing page for admin (FE)	TTTVan												
Fetch category data and code add/delete category function (BE)	THBan												
Test and debug	NPTai, VNHKim, TTTVan, THBan												

- Sprint-5 schedule:

Task	Assignee	Week 1						Week 2		
		21-Aug	22	23	24	25	26	28	29	30
Test and debug	NPTai, VNHKim, TTTVan, THBan									

4.2.5 Project Resourcing

The number of staff needed for this project are 4. There will be training sections during the inception phase to ensure that all staff acquire needed skills for the project.

4.3 Project Monitoring and Control

4.3.1 Requirements Management

The requirements for this system are captured in the Vision document. Requested changes to requirements are captured in Change Requests, and are approved as part of the Configuration Management process.

4.3.2 Reporting and Measurement

None

Awn Anw	Version: 1.1
Software Development Plan (Small Project)	Date: 22/07/2023
<document identifier>	

4.3.3 Risk Management

Risks will be identified in the Inception Phase using the steps identified in the RUP for Small Projects activity “Identify and Assess Risks”. Project risk is evaluated at least once per iteration and documented in this table. The risks of the greatest magnitude are listed first in the table.

Risk Ranking (High, Medium, Low)	Risk Description and Impact	Mitigation Strategy and/or Contingency Plan
High	Do not understand the software making process clearly	Try to learn skills needed, discuss with experienced people
Medium	Staff illness	Reorganize team so that there is more overlap of work and people therefore understand each other's jobs
Medium	All members have no experience in group programming	Leader helps and solves the problems of the team members to make the group more cohesive
Medium	Database performance	Investigate the possibility of buying a higher-performance database

4.3.4 Configuration Management

Appropriate tools will be selected which provide a database of Change Requests and a controlled versioned repository of project artifacts.

All source code, test scripts, and data files are included in baselines. Documentation related to the source code is also included in the baseline, such as design documentation. All customer deliverable artifacts are included in the final baseline of the iteration, including executables.