
Mr. Manager

**Sales Management Website
Software Development Plan**
Version <1.0>

Revision History

Date	Version	Description	Author
09/06/2021	0.8	Initialize	Nguyễn Hoàng Long Trần Hoàng Kim
17/06/2021	1.0	Add Transition phase to Phase and Iteration Plan Complete Risk management	Nguyễn Hoàng Long Trần Hoàng Kim

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Software Development Plan

1. Introduction

The purpose of this Software Development Plan is to define the activities required for implementing a Sales Management Website. This Software Development Plan describes the plan that the team will follow to develop the system.

2. Project Overview

2.1 Project Purpose, Scope, and Objective

In this project, the team will implement a Sales Management Website. This website will have tools e.g. saving history receipts, tracking how much sold in specific items, show diagrams etc. The manager will then be able to view their revenue and buying trends in each category.

2.2 Assumptions and Constraints

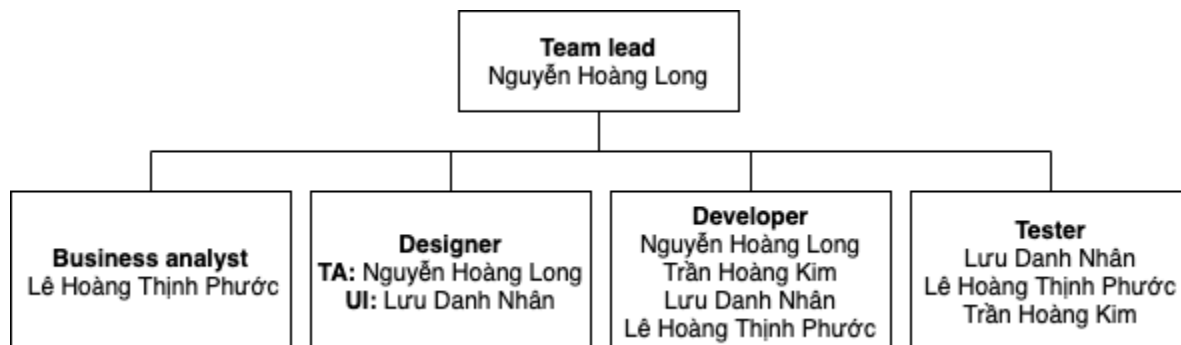
- Project has a fixed schedule of 12 weeks
- Zero-budget project
- Project has 4 people, there will be no more people added during the project
- No extended time

2.3 Project Deliverables

- Glossary
- User interface prototype
- System architecture document
- Database design
- Test summary

3. Project Organization

3.1 Organizational Structure



3.2 Roles and Responsibilities

Role	Person	Responsibility
Team lead	Nguyễn Hoàng Long	Allocating resources, interacting with customers and users, assigning tasks to members, scheduling meetings and deadlines, keeping team focused on the right goal
Business analyst	Lê Hoàng Thịnh Phước	Determining and analyzing customer's requirements, describing those requirements in the document
Designer	Technical architecture Nguyễn Hoàng Long	Designing system architecture, choosing technology stack for the implementation
	User Interface Lưu Danh Nhân	Sketching website interface prototype, reviewing and providing feedback on the final implementation of the website interface
Developer	Nguyễn Hoàng Long Trần Hoàng Kim Lưu Danh Nhân Lê Hoàng Thịnh Phước	Implementing software based on technical architecture document, user interface sketch, requirements document
Tester	Trần Hoàng Kim Lưu Danh Nhân Lê Hoàng Thịnh Phước	Executing manual testing

4. Management Process

4.1 Project Estimates

The project will take 12 weeks to complete. See 4.2 for more details.

4.2 Project Plan

4.2.1 Phase and Iteration Plan

Phase	Start	End
Inception Phase	Week 2	Week 3
Elaboration Phase	Week 4	Week 7
Construction Phase	Week 8	Week 11
Final review	Week 12	Week 12

Description	Milestone
Inception Phase	Describe the initial requirements Develop and justify the business case for the system Determine the scope of the system Identify the people, organizations, and external systems that will interact with the system Develop an initial risk assessment, schedule, and estimate for the system
Elaboration Phase	Produce architectural baseline for the system Analyze and design high risk use cases Test the feasibility and performance of the architecture Develop project plan for the entire Construction phase
Construction Phase	Describe the remaining requirements Complete implementation and test activities Minimize development costs by optimizing resources
Transition Phase	Beta test to validate that user expectations are met Achieve stakeholder concurrence that deployment is complete Training of users and maintainers
Final review	Presentation the demo website to customers

4.2.2 Releases

Build	Description
1	Pages skeleton, User Interface Sketch, complete at least 20% of work
2	Admin page, complete at least 50% of work
3	Employee Page, complete at least 80% of work
4	Complete extra features, 100% of work
1.0	Release

4.2.3 Project Schedule

Task	Start	End
Team up	31/05/2021	06/06/2021
Assign roles and responsibility	07/06/2021	13/06/2021
Complete Software Development Plan, Vision document	14/06/2021	20/06/2021
Complete Use-Case Specification, Software Architecture Document, User Interface Prototype	21/06/2021	27/06/2021
Set up development tools	28/06/2021	04/07/2021
Build 1	05/07/2021	11/07/2021
Build 2	12/07/2021	18/07/2021
Build 3	19/07/2021	25/07/2021
Build 4	26/07/2021	01/08/2021
Release 1.0	02/08/2021	08/08/2021
Presentation	09/08/2021	15/08/2021

For more details, click this [link](#) to view Gantt Chart

4.3 Project Monitoring and Control

4.3.1 Reporting

- Weekly meeting: is always organized every Sunday at 8pm and also possibly on other days of the week. The purpose of the meeting is to review all functions done during the week, fix bugs and plan our tasks for the next week.
- Weekly status report: report about completed functions and unfinished tasks.
- Informal chats: discuss, guide each other about new knowledge

4.3.2 Risk Management

Risk ID	Risk Description	Probability	Impact	Priority	Mitigation Strategy or Contingency Plan
001	The main code member in the group is in pain	8	tolerable	5	At each group meeting, the main coder has to demonstrate what he has done to other members, so that the other members can keep up with his progress when he hands over the work to this member

002	A member leaves the group	2	serious	6	At each group meeting, that member has to demonstrate what he has done to other members, so that the other member can keep up with his progress when he hands over the work to this member
003	Errors caused by members using different tools or different versions resulting in failure to integrate	15	catastrophic	2	The whole team agreed to use npm 7.16.0, nodejs v16.3.0 and python 3.9.2, IDE visual studio code. If any additional external libraries or tools are used, the member must report to the whole team and record it in requirements.txt
004	Many bugs occur when integrating member's code	20	serious	3	Regularly integrate the code when completing a few functions, do not let the code too much and then the integration will create many bugs making it difficult to debug.
005	Members delay progress on important parts, leading to project delays	30	tolerable	1	If a member feels that he can not complete his tasks in time, he has to notify the team leader. The leader will add more personnel for that jobs
006	Missing sample data to check whether the program is running correctly or not	15	insignificant	7	The team will have to think of the data to check
007	Improper database design affects the entire system	10	catastrophic	4	Developers and technical designer must work together frequently to clearly define the right database for the system

4.3.3 Configuration Management

- Google drive: share and storage documents include visual documents, project plans
- Github: share and storage code of project
- Slack: discuss work content
- Trello: organize deadline and assign task to members
- Zoom: organize the meeting weekly