
Group09

Video web
Software Development Plan (Small Project)
Version 1.2

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Software Development Plan (Small Project)	Date: 20/07/2022

Revision History

Date	Version	Description	Author
11/06/2022	1.0	<ul style="list-style-type: none"> This version provides a project description, team organization, task scheduler, risk management and more about project organization. These sections are fulfilled with limited information from Group09, in particular: <ul style="list-style-type: none"> Introduction: <i>Dương Đình Hiếu</i> Project Overview: <i>Dương Đình Hiếu</i> Project Organization: <i>Nguyễn Trương Hoàng Thái</i> Management Process <ul style="list-style-type: none"> Project Estimates: <i>Trương Quốc Huân</i> Project Plan: <i>Nguyễn Trương Hoàng Thái</i> Project Monitoring and Control: <i>Trương Quốc Huân</i> This version will be upgraded with more information in future. 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái 20127625 _ Project manager, UX and UI designer, BE developer ❖ Trương Quốc Huân 20127172 _ UX and UI designer, BE developer ❖ Đỗ Phương Nam 20127418 _ UX and UI designer, FE developer ❖ Phan Thanh Thúy 20127350 _ UX and UI designer, FE developer ❖ Dương Đình Hiếu 20127675 _ UX and UI designer, FE developer
23/06/2022	1.1	<ul style="list-style-type: none"> Team members' role is specified: changed from software developer to corresponding BE, FE developer (section 3.2) Sprint task now is more detailed; member task of sprint 3 is updated (section 4.2) 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái 20127625
20/07/2022	1.2	<ul style="list-style-type: none"> Member task for sprint 4 and sprint 5 are updated (section 4.2) 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái 20127625

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1. Introduction

- Today's young people's demand for watching movies is very large, so we decided to build a movie website.
- Non-profit movie watching includes basic features such as viewing, searching,... Our website helps people to watch like at mainstream movie sites like Netflix and Disney+.

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 <project name> 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.

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.

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

- Create an online movie watching website for users who can't afford to pay a dollar to watch movies in a mainstream way like Netflix and Disney. If the project is completed, it will provide people who can't experience many good movies.

2.2 Assumptions and Constraints

- A project is scheduled in 6 sprints, each sprint lasts for 2 weeks. Video web is an educational purpose project, so this is a non-profit project.
- Development team has 5 members, each member has at least one personal laptop that runs windows 10 (or 11) operating system.

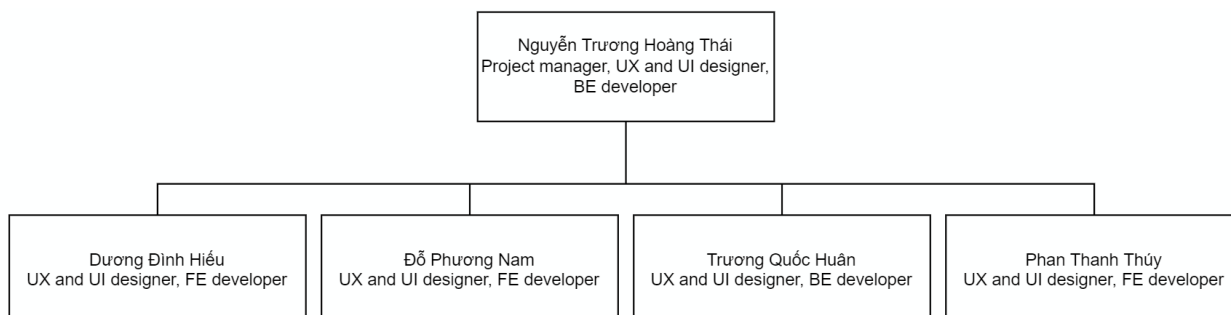
2.3 Project Deliverables

- Deliverables for each project phase are identified in the Development Case. Deliverables are delivered towards the end of the interaction, as specified in section 4.2 Project Plan.

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3. Project Organization

3.1 Organizational Structure



3.2 Roles and Responsibilities

Person	Role
Nguyễn Trương Hoàng Thái, Project manager, UX and UI designer, BE developer	
Dương Đình Hiếu, UX and UI designer, FE developer	
Đỗ Phương Nam, UX and UI designer, FE developer	
Trương Quốc Huân, UX and UI designer, BE developer	
Phan Thanh Thúy, UX and UI designer, FE developer	

4. Management Process

4.1 Project Estimates

- The estimated cost to complete a non-profit online movie web site is \$25 for the domain (.com), and members have found a free movie database that can connect directly to the web is Google Drive. Estimated time of implementation is 28/05/2022 and product launch is 23/7/2022.

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4.2 Project Plan

Sprint	Start date	Due date	Sprint task	Member task	Outcomes
02	28/05/22	11/06/22	<ul style="list-style-type: none"> ❖ Complete vision document (vs) and project plan (pln) ❖ Review outcomes ❖ Write meeting reports ❖ Attend meetings ❖ Submit PA1 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái: 3. (vs), 3. (pln), review outcomes, write meeting reports, submit PA1 ❖ Dương Đình Hiếu: 1. (vs), 1.; 2. (pln) ❖ Phan Thanh Thúy: 5.; 6. (vs) ❖ Trương Quốc Huân: 2.; 3. (vs), 4.1; 4.3 (pln) 	<ul style="list-style-type: none"> ❖ Project plan ❖ Vision document ❖ Meeting reports
03	11/06/22	25/06/22	<ul style="list-style-type: none"> ❖ Update project plan and vision document ❖ Draw use-case diagram ❖ Complete use-case specification tables ❖ Complete Lab Assignment 01 ❖ Review outcomes ❖ Write meeting reports ❖ Attend meetings ❖ Submit PA2 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái: draw use-case diagram, 2.19 to 2.21 (use-case specification tables), write meeting reports, review outcomes, submit PA2 ❖ Trương Quốc Huân: draw use-case diagram, 2.16 to 2.18 (use-case specification tables) ❖ Phan Thanh Thúy: 2.1 -> 2.8 (use-case specification tables) ❖ Đỗ Phương Nam: 2.9 to 2.15 (use-case specification tables) ❖ Dương Đình Hiếu: 2.9 to 2.15 (use-case specification tables) 	<ul style="list-style-type: none"> ❖ Updated project plan ❖ Updated vision document ❖ Use-case model (diagram) ❖ Use-case specification document ❖ Meeting reports ❖ Small BE and FE parts of the system
04	25/06/22	09/07/22	<ul style="list-style-type: none"> ❖ Revise use-case model and use-case specification ❖ Complete required sections of SAD document ❖ Draw class diagrams ❖ Complete Lab Assignment 02 ❖ Review outcomes ❖ Write meeting reports ❖ Attend meetings ❖ Submit PA3 	<ul style="list-style-type: none"> ❖ Nguyễn Trương Hoàng Thái: revise use case document, complete SAD document, write class diagram, write meeting reports, review outcomes, submit PA3 ❖ Trương Quốc Huân: revise use case document, complete SAD, write class diagram ❖ Phan Thanh Thúy: revise use case document, complete SAD, write class 	<ul style="list-style-type: none"> ❖ Updated use-case diagrams and use-case specification ❖ SAD document (left section 5 and 6 blank, section 4 is subsystem and 4.1 is sub subsystem) ❖ Class diagrams ❖ Meeting reports

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				diagram ❖ Đồ Phương Nam: complete SAD	
05	09/07/22	23/07/22	❖ Update and fulfill SAD document ❖ Create UI prototype ❖ Review outcomes ❖ Write meeting reports ❖ Attend meetings ❖ Submit PA4	None	❖ Revise SAD (fill section 5 and 6) ❖ UI prototype ❖ Meeting reports
06	23/07/22	None	❖ Test the system and write report ❖ Project presentation ❖ Submit documents and source code	None	❖ Test plan document ❖ Test report ❖ Project presentation (slides, demo...) ❖ Documents written and source code



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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

- Updated cost and schedule estimates, and metrics summary reports, will be generated at the end of each iteration.
- The Minimal Set of Metrics, as described in the RUP Guidelines: Metrics, will be gathered on a weekly basis. These include:
 - Earned value for completed tasks. This is used to re-estimate the schedule and budget for the remainder of the project, and/or to identify need for scope changes.
 - Total defects open and closed – shown as a trend graph. This is used to help estimate the effort remaining to correct defects.
 - Acceptance test cases passing – shown as a trend graph. This is used to demonstrate progress to stakeholders.
- In addition, overall costs will be monitored against the project budget.

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	Most of the team members have not approached building a website, have no knowledge and experience. Not understanding the process of building a website and how to store data.	Sign up for online programming courses and collect materials to use to build projects + refer to similar projects to gain more experience.
High	Conflicts between members. Team internal conflict about ideas, schedules, organizing source code...	Everyone of the team needs to make concessions, don't let ego affect the project.
High	Members rarely interact with other members. Sometimes, some members don't know how to express their ideas or they're afraid to communicate. It leads to missing deadlines and tasks that don't go smoothly.	If someone is afraid to communicate with others or they don't know how to express their ideas, they can ask the leader to do that. Besides, they can try other kinds of communication like writing emails, using chat tools (messenger, discord, slack....).
High	Some functions in the list of restricted features. In plan step, development team want	One preferred way is to remove the unimplementable function so that the system would not have problems. Or the team can replace

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	to develop that function but when in implementation step, that function is too hard to implement (for example, team proposed to make a web video and proposed a function to create VIP so that viewers can continue to watch videos with higher quality, but the difficulty occurs that after VIP registration, subscribers still cannot watch videos with higher resolution).	that function with others.
Medium	Members don't complete their tasks. Member was assigned tasks in plan meeting but because of some reasons, they missed the tasks' deadline.	Team leader usually reminds everyone about the deadlines and encourages them to complete their tasks. In addition, the leader assigns appropriate tasks so that members can always complete their tasks.
Low	Team members can't agree on meeting time. Because of subjective reasons and objective reasons, the team can't agree on meeting schedules.	Every member needs to spend a little bit of their time to join the meetings. If some members really can't join because of an urgent reason, they can watch the meeting records later and ask the leader to explain them.

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.