

**E-commerce Web Application  
Software Development Plan (Small Project)  
Version <1.0>**

E-commerce Web Application	Version: <1.0>
Software Development Plan (Small Project)	Date: 06/11/2020
<document identifier>	

## Revision History

Date	Version	Description	Author
06/11/2020	1.0		Huỳnh Nhật Nam

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# Software Development Plan (Small Project)

## 1. Introduction

### 1.1 Purpose

This document presents the activities needed for developing a e-commerce web application.

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, what are their roles and what other activities they are dependent upon.

### 1.2 Scope

This *Software Development Plan* describes the overall plan to be used by the e-commerce web application 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.

Management process — describes the project's management, plan and schedule.

## 2. Project Overview

### 2.1 Project Purpose, Scope, and Objectives

This project will implement a e-commerce web application for small shops. They can advertise and selling their product online to increase their reputation and profit. Customers can buy products to satisfy their needs effectively and conveniently through an interface on internet without wasting their time to go to the shop.

### 2.2 Assumptions and Constraints

- Staff: team with 5 members
- Final product must be releases before final review (around 27/12)

### 2.3 Project Deliverables

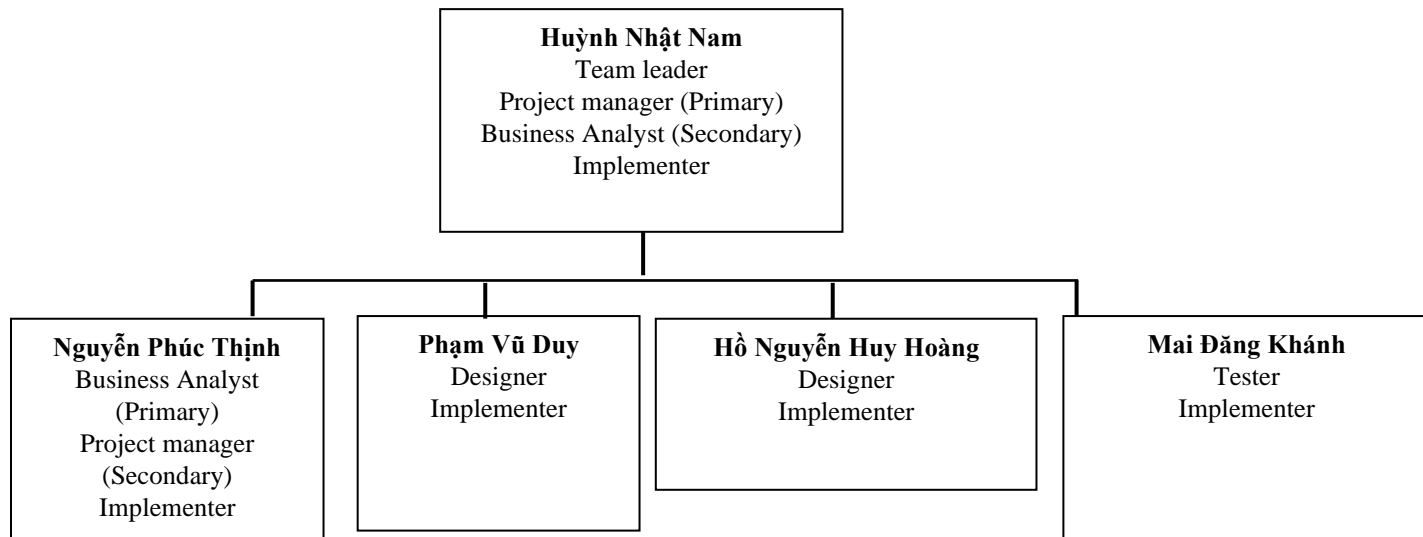
- Project development plan
- Vision document
- Use-case model and description
- Design document (class diagrams, software architecture,...)

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- Test plan
- Test cases
- Releases

### 3. Project Organization

#### 3.1 Organizational Structure



#### 3.2 Roles and Responsibilities

- All team members are implementers

Person	Role
<b>Huỳnh Nhật Nam</b> Team leader/Project Manager (primary) Business Analyst (secondary)	<ul style="list-style-type: none"> <li>- Write project plan (including assign tasks)</li> <li>- Monitor and report status (weekly report)</li> <li>- Coordinate meetings</li> <li>- Contact point for the project</li> </ul>
<b>Nguyễn Phúc Thịnh</b> Business Analyst (primary) Project Manager (secondary)	<ul style="list-style-type: none"> <li>- Document requirements (interview customers, etc.)</li> <li>- Communicate with team members about the requirements</li> <li>- Coordinate to review requirements</li> </ul>
<b>Phạm Vũ Duy, Designer</b>	<ul style="list-style-type: none"> <li>- Design the system (components, classes, databases, etc.)</li> <li>- Design user interface</li> <li>- Create Software Architecture Document</li> </ul>
<b>Hồ Nguyễn Huy Hoàng, Designer</b>	<ul style="list-style-type: none"> <li>- Design the system (components, classes, databases, etc.)</li> <li>- Design user interface</li> <li>- Create Software Architecture Document</li> </ul>
<b>Mai Đăng Khánh, Tester</b>	<ul style="list-style-type: none"> <li>- Write test plan and test cases</li> <li>- Perform system test</li> </ul>
<b>All team members, implementers</b>	<ul style="list-style-type: none"> <li>- Write source code</li> </ul>

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	- Perform unit test - Review source code
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## 4. Management Process

### 4.1 Project Estimates

- Time:
  - + 2 Months, 10 Weeks
  - + 2/11 – 3/1
- Effort: 10PM
- Cost: 0
- Staff: 5 People

### 4.2 Project Plan

#### 4.2.1 Phase Plan

\* Notes: Time line may be updated due to their deadlines

Phase	Number of Iterations	Project Assignments	Start	End
Inception	1	PA1	2/11/2020	11/11/2020
Elaboration	2	PA2, PA3	12/11/2020	6/12/2020
Construction	2	PA4, PA5, PA6	7/12/2020	3/1/2021

#### 4.2.2 Iteration Objectives

Phase	Iterations No.	Project Assignments	Objective to be accomplished
Inception	1	PA1	- Vision document - Project plan
Elaboration	1	PA2	- Revised project plan - Detailed vision document - Defines use-case model and use-case specification
	2	PA3	- Submits use-case specification 2 <sup>nd</sup> time. - Defines software architecture (writes SAD) and class diagrams - UI prototype
Construction	1	PA4	- Revised software architecture document - Implementation (front-end + back-end)

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	2	PA5	- Testing (test plan, test cases, automated testing)
		PA6	- Presentation (PP Slides) - Final submission

#### 4.2.3 Releases

- Time: 7/12/2020 – 22/12/2020

+ First release: End of PA4

+ Second release: End of PA5

#### 4.2.4 Project Schedule

*\* Notes: Time line may be updated bases on PA deadlines*

Phases	Iteration No.	Tasks and Artifacts	Assignee	Start Date	End Date
Inception	1	- Vision document	Nguyễn Phúc Thịnh	1/11/2020	11/11/2020
		- Project plan	Huỳnh Nhật Nam		
		- Weekly scrum + report (Only 1 in Inception)	All team members	9 PM 9/11/2020	
Elaboration	1	- Revised project plan	Huỳnh Nhật Nam	12/11/2020	22/11/2020
		- Detailed vision document	Nguyễn Phúc Thịnh		
		- Use-case model, use-case specification	Huỳnh Nhật Nam, Nguyễn Phúc Thịnh		
		- Weekly scrum + report (Elaboration, Iteration No.1, Week 01)	All team members	9 PM 13/11/2020	
		- Weekly scrum + report (Elaboration, Iteration No.1, Week 02)	All team members	9 PM 20/11/2020	
		- Learning HTML, CSS, Javascript	All team members	12/11/2020 – 22/11/2020	
	2	- 2 <sup>nd</sup> submission use-case document	Huỳnh Nhật Nam, Nguyễn Phúc	23/11/2020	6/12/2020

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			Thịnh		
		- Defines software architecture	Phạm Vũ Duy, Hồ Nguyễn Huy Hoàng		
		- Class diagrams	Phạm Vũ Duy, Hồ Nguyễn Huy Hoàng		
		- UI prototype	Phạm Vũ Duy, Hồ Nguyễn Huy Hoàng		
		- Weekly scrum + report (Elaboration, Iteration No.2, Week 01)	All team members	9 PM 27/11/2020	
		- Weekly scrum + report (Elaboration, Iteration No.2, Week 02)	All team members	9 PM 4/12/2020	
		- Learning Javascript	All team members	23/11/2020 – 6/12/2020	
Construction	1	- Revised SAD	Phạm Vũ Duy, Hồ Nguyễn Huy Hoàng	7/12/2020	20/12/2020
		- Implementation (Source code)	All team members		
		- Test-plan	Mai Đăng Khánh		
		- Release (See 4.2.3 for better details)	Hồ Nguyễn Huy Hoàng	14/12/2020	20/12/2020
		- Weekly scrum + report (Construction, Iteration No.1, Week 01)	All team members	9 PM 11/12/2020	
		- Weekly scrum + report (Construction, Iteration No.1, Week 02)	All team members	9 PM 18/12/2020	
	2	- Testing	Mai Đăng Khánh	21/12/2020	27/12/2020



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		- Prepares presentation slides (PP)	Hồ Nguyễn Huy Hoàng, Huỳnh Nhật Nam, Phạm Vũ Duy, Nguyễn Phúc Thịnh		
		- Fix errors and release	All team members	21/12/2020	3/1/2021 (base on final deadline)
		- Weekly scrum + report (Construction, Iteration No.2, Week 01)	All team members	9 PM 25/12/2020	
		- Weekly scrum + report (Construction, Iteration No.2, Week 02)	All team members	9 PM 1/1/2021	
		- Final Submission - Presentation	All team members	28/12/2020	3/1/2021

#### 4.2.5 Project Resourcing

- Staff: 5 people:
  - + 2 Project manager
  - + 2 Business Analyst
  - + 2 Designer
  - + 1 Tester
  - + 5 implementers : HTML/CSS/Javascripts skills
- Training: self-training, self-studying, studying in class.

### 4.3 Project Monitoring and Control

#### 4.3.1 Requirements Management

Changes to requirements will be captured and requirements will be reviewed as soon as possible and will be documented.

#### 4.3.2 Reporting and Measurement

At the end of each iteration (2 weeks) there will be 2 weekly reports.  
There will be weekly scrums to keep track of the progress. Changes to project plan will be made if necessary

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#### 4.3.3 Risk Management

Risks will be identified in 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

#### 4.3.4 Configuration Management

- Github: storing source code and documents
- Trello: managing project
- Slack, Messenger: chatting and discussing
- Discord: Weekly scrum by voice chat