Clothing Selling Website
Software Development Plan (Small Project)
Version <1.3>

Revision History

Date	Version	Description	Author
<05/03/2021>	<1.0>	<Finish Introduction, Project Overview and Project Organization for PA01>	<Lê Thị Thùy Dương>
<10/03/2021>	<1.1>	<Finish Management Process for PA01>	<Nguyễn Bá Tín>
<12/03/2021>	<1.2>	<Complete Plan Document for PA01>	<Lê Thị Thùy Dương>
<24/03/2021>	<1.3>	<Update Plan Document and fix errors due to teacher's advices for PA02>	<Lê Hồng Quang>

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Software Development Plan (Small Project)

1. Introduction

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 Clothing Website 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

Human health and spirit are always the first priority, the next need is to dress well . This day can not deny the need to dress is a very necessary need, and now that need is raised to be beautiful, comfortable and modern. So that's why we created a clothing website.
- Purpose : Instead of having to go from place to place to buy clothes and sometimes don't have the models we like, a clothing website easily does it. In the era of technology development, just stay at home and go online to choose the clothes that you like and buy. Very simply does not cost too much time.
- Scope : For everyone with no age limit.
- Objectives : Customers are free to choose clothes to meet the needs of dressing in a variety of styles.
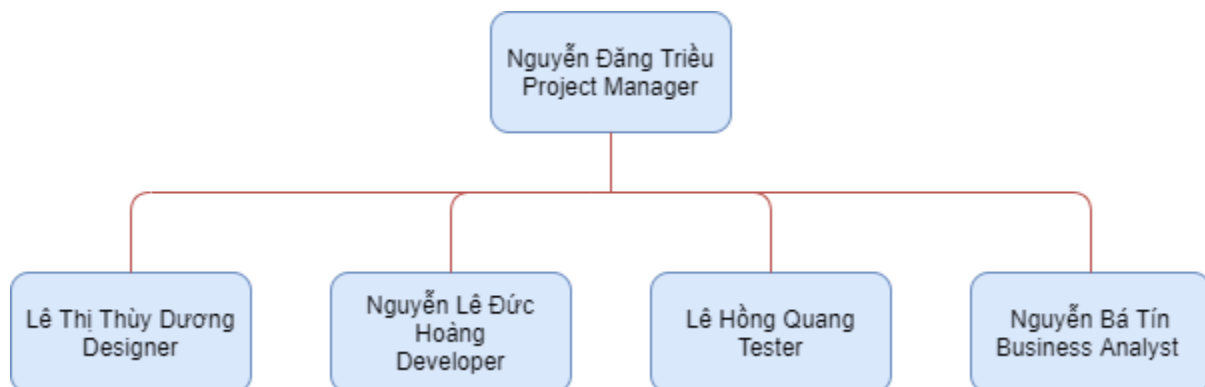
2.2 Assumptions and Constraints

- Budget : free.
- Staff: 4 members.
- Equipment: laptop, Git, Trello, Google Drive, Word,...
- Scheduler: Working daily and weekly will hold a meeting to review progress.

2.3 Project Deliverables

Deliverables for each project phase are identified in the Development Case. Deliverables are delivered towards the end of the iteration, as specified in section 4.2.4 Project Schedule.

3.   Project Organization

3.1   Organizational Structure

3.2   Roles and Responsibilities

Person	Role
Nguyễn Đăng Triều - Project Manager	Assign work, monitor project progress
Lê Thị Thùy Dương - Designer	Design web page interface
Lê Hồng Quang - Tester	Check and find errors, Write Document
Nguyễn Lê Đức Hoàng - Developer	Coding main
Nguyễn Bá Tín - Business Analyst	Taking demand, analyzing profession, choosing options for project development

4.   Management Process

4.1   Project Estimates
- There are 8 pages: home, login, register, view product, view profile, view cart, pay and shipping, shipping status . Each page is expected to be implemented in 2- 3 days. The cost section will be updated later.

4.2   Project Plan
- **PA0: GROUP REGISTRATION & TOOLS SETUP - 2 Week**
  - Start: 22/1/2021
  - End: 27/2/2021 (longer than the specified time because it include Tet Holidays)
  - Task :
    - Group registration
    - Project proposal
    - Setup all tool as required by the exercise for the next Project Assignment
  - Release:a description of your project in 1/2 to 1 page, which includes the following information as required by the exercise

- **PA1: WRITE SOFTWARE DEVELOPMENT PLAN - VISION DOCUMENT -**

WEEKLY REPORTED - 2 Week
- Start: 20/2/2021
- End: 6/3/2021
- Task:
  - Complete Software development plan (details of work will be shown in weekly reported)
  - Complete Vision document (details of work will be shown in weekly reported)
  - Weekly reported will be wrote by team leader
- Release: Project plan document, Vision document and Weekly reported

- **PA2: UPDATE PROJECT PLAN, VISION DOCUMENT & WRITE USE CASE - 2 Week**
  - Start: 7/3/2021
  - End: 20/3/2021
  - Task:
    - Update project plan to fix the issues found by TA's and make it clearer and more detailed. (details of work will be shown in weekly reported)
    - Detail product functional and non-functional requirements, alternatives and competitors, user environments. (details of work will be shown in weekly reported)
    - Based on the requirements documented in the vision document, model use-cases of the system in forms of use-case diagrams (one or several diagrams). (details of work will be shown in weekly reported)
    - Detail each use-case in the use-case diagram by filling the use-case specification document, focusing on name, basic flow, alternative flows, pre-conditions, and post-conditions.(details of work will be shown in weekly reported)
    - Update weekly reported.
  - Release: Pro-plan doc, Vision document
- **PA3: Define software architecture & Class diagrams - 2 Week**
  - Start: 21/3/2021
  - End: 3/4/2021
  - Task:
    - Revise the use-case model and specifications according to the feedback from TA's, new information and/or changes to the requirements.(details of work will be shown in weekly reported)
    - Draft the software architecture document (SAD), filling the required sections in the document using the template provided with this assignment.(details of work will be shown in weekly reported)
    - Model class diagrams for each of the key components defined in the architecture. Update Section 4.x of the Software Architecture document with diagrams and descriptions of key classes.(details of work will be shown in weekly reported)
    - Update weekly reported.
  - Release:
- **PA4: Revise software architecture & Launch UI Prototype**
  - Start: 4/4/2021
  - End: 17/4/2021
  - Task:
    - Update Sections 1-4 and fill the content for Sections 5 and 6, based on the feedback for PA3 from the TA's and more information you have about your project now.(details of work will be shown in weekly reported)
    - Sketch the user interface for the system your team is designing.(details of work will be shown in weekly reported)

- ○ Update weekly reported.
- ● Release:
- **PA5: Implementation - Test plan and test cases - Automated testing - 2 Week**
  - ● Start: 18/4/2021
  - ● End: 1/5/2021
  - ● Task:
    - ○ To implement key features of your application before performing testing activities.(details of work will be shown in weekly reported)
    - ○ Prepare a test plan, design test cases, execute test cases, summarize and report test results.(details of work will be shown in weekly reported)
    - ○ Understand how a test automation tool works.(details of work will be shown in weekly reported)
    - ○ Update weekly reported.
  - ● Release: 1 version of software, can be called: prototype version before final release at PA6
- **PA6: Project presentation & Final submission**
  - ● Start: 2/5/2021
  - ● End: 15/5/2021
  - ● Task:
    - ○ Present its project work in a 25-minute presentation.(details of work will be shown in weekly reported)
    - ○ Submits the final package that contains every document written and source code.
  - ● Release: Final release and complete software.

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 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

Medium	Members do not know the process of making software	The team leader will have to disseminate knowledge about the software making process for each member
High	Customer requirements exceed the capabilities of the team.	The team leader should consider each member's ability and discuss with the member the customer's requirements before receiving the project.
High	A member skips the assigned job due to personal problems.	When assigned jobs, the team leader needs to consider each individual and assign key tasks to 2 highly skilled people to prevent risks.
Medium	Some personal issues between team members.	The leader will have to grasp the psychology and solve the problem in a gentle way for the benefit of the whole group.
Medium	Funding for the project was insufficient, exhausted due to a number of unexpected incidents.	The team leader needs to discuss with customers to re-capital to continue the project and implement re-estimate.

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.