
Nhóm 9

VFund
Software Development Plan
Version 1.0

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Revision History

Date	Version	Description	Author
01/11/2020	1.0	Preliminary SDP version of the VFund App	Nguyễn Thanh Minh Duy Võ Minh Lâm

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Software Development Plan

1. Introduction

The SDP gives an overall view about all information needed to manage this VFund project. As every details of the development, test, deployment, ... are covered right from its inception to the culmination.

2. Project Overview

2.1 Project Purpose, Scope, and Objectives

- Purpose:

This project creates the opportunities for people to join hands to help people who might need it. It organizes a much smaller scale of fundraising and the donation could be as little as people can afford.

Fundraising can be authorized faster. Big events will have their own authorized mark to ensure that the fund project is legal and reliable.

- Scope:

This project goal is to reach out to everybody, especially in VietNam where the government laws are strict. This aims at every class of the society not just the rich one, they can donate some of their wealth to the people who might be in danger or needed it.

- Objectives:

It's needed to have big companies sponsor to advertise the project to everybody. The more people we reach, the better it will be for society. We have to get the authority to authorize the project so it can be run fast and still be legal in every case.

2.2 Assumptions and Constraints

- Project has a fixed schedule of 12 weeks (6 sprints)
- Zero-budget project
- Project has 3 people, there will be no more people added during the project
- Project's development has to be completed by the middle of January 2021.
- There will be 4 weeks for testing & deployment purposes.

2.3 Project Deliverables

Deliverables of the project are identified in the project schedule. Deliverables are delivered towards the end of the iteration, each will contain all the details of the features.

Deliverables could include:

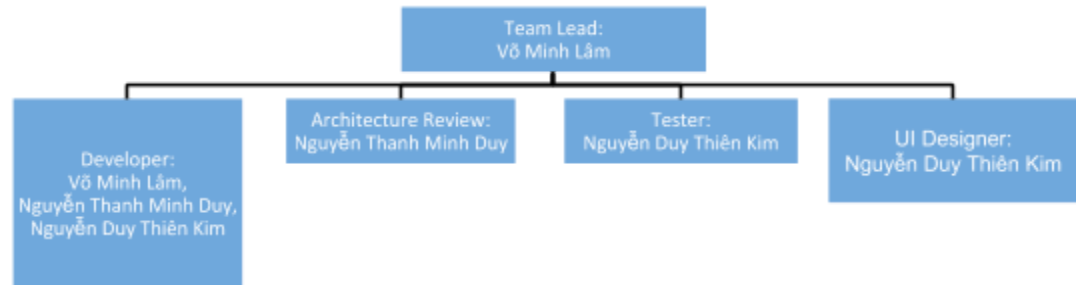
- Test Cases
- Source Code
- Weekly reports
- Test report
- Revised Artifacts submitted in Elaboration
- Software Architecture Document

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- Use-case
- Software Development Plan
- Vision Document

3. Project Organization

3.1 Organizational Structure



3.2 Roles and Responsibilities

Person	Rational Unified Process Role
Võ Minh Lâm	Project Manager - Team Lead, Developer
Nguyễn Thanh Minh Duy	Architecture Designer - Reviewer, Developer
Nguyễn Duy Thiên Kim	UI designer, Developer

4. Management Process

4.1 Project Estimates

- Time: 12 weeks (6 sprints)
- Staff: 3 (fixed)
- Cost: 0

4.2 Project Plan

4.2.1 Phase and Iteration Plan

Phase	Iteration	Description	Milestones
Inception	Sprint 1 (26/10/2020 - 8/11/2020)	Defines business model, product requirements, Software Development Plan, management, and business case.	Business case review

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Elaboration	Sprint 2 (09/11/2020 - 22/11/2020)	Analysis and design prototype architecture.	Analysis model Design model Data model
	Sprint 3 (23/11/2020 - 06/12/2020)	Implementation and test prototype architecture.	Architectural Prototype Baseline
Construction	Sprint 4 (07/12/2020 - 20/12/2020)	Implement and test R1 use cases to provide the R1 Beta Version.	R1 Beta
	Sprint 5 (21/12/2020 - 03/01/2021)	Implement and test remaining R1 use cases, fix defects from Beta.	R1 Software
	Sprint 6 (04/01/2021 - 17/01/2021)	Design, implement, and test R2 use cases. Incorporate enhancements and defects from R1.	R2 Software

4.2.2 Releases

Release 1 (R1) must contain as a minimum the basic functionality as listed below:

- Admin's functions
- Login
- Register for user
- Create raising fund event with some basic functions:
 - Story screen
 - Update
 - Donation screen
- Donate functionality

Release 2 (R2) should include:

- Follow and notification function
- Classify event
- Backer & Comment screen of event
- Search for event
- Share event to social media
- Evaluating the event's trust level
- Report event

In addition, a Beta Release will precede the R1.0 Product Release.

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Time release:

- R1 Beta: 20/12/2020
- R1 Software: 03/01/2020
- R2 Software: 17/01/2020

4.2.3 Project Schedule

Phase	Iteration	Task	Assignee	Start date	End date
Inception	Sprint 1	Write SDP section 1,2,3	NTM Duy	26/10/2020	7/11/2020
		Write Vision Document section 1,2,3	NDT Kim	26/10/2020	7/11/2020
		Write SDP section 4	VM Lâm	26/10/2020	7/11/2020
		Write Vision section 4,5	VM Lâm	26/10/2020	7/11/2020
Elaboration	Sprint 2	Revise and fix some issue in SDP	NTM Duy	9/11/2020	22/11/2020
		Detail Vision document	NDT Kim	9/11/2020	22/11/2020
		Use-case model and specification	VM Lâm	9/11/2020	22/11/2020
	Sprint 3	Revise use-case specification	VM Lâm	23/11/2020	06/12/2020
		Class diagrams	VM Lâm NDT Kim	23/11/2020	06/12/2020
		Software Architecture Document (SAD)	NTM Duy	23/11/2020	06/12/2020
		UI Prototype	NDT Kim	23/11/2020	06/12/2020
Construction	Sprint 4	Revise SAD	VM Lâm NTM Duy	07/12/2020	20/12/2020
		Admin's functions	NTM Duy	07/12/2020	20/12/2021

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		Login, register function	NDT Kim	07/12/2020	20/12/2021
		Event's functions	VM Lâm	07/12/2020	20/12/2020
		Donate function	NDT Kim	07/12/2020	20/12/2020
	Sprint 5	Test case Test plan	VM Lâm NDT Kim	21/12/2020	03/01/2021
		Automated Testing	NTM Duy	23/12/2020	03/01/2021
	Sprint 6	Project Presentation	VM Lâm NDT Kim NTM Duy	04/01/2021	17/01/2021

4.3 Project Monitoring and Control

4.3.1 Reporting

Our team holds weekly meetings at 8PM every Saturday. During the meetings, members will discuss tasks done and progress made the preceding week. At the same time, we talk about obstacles and difficulties each member confronted and together find a way to solve them. Lastly, we discuss the following week's workload and delegate the tasks equally between members.

4.3.2 Risk Management

Risk ID	Risk Description	Probability	Impact	Priority	Mitigation Strategy or Contingency Plan
1	Wrong technology	8/10	8/10	High	It is vital that the team includes experts who understand the architecture and have the capability to make sound design choices, or to spend time and effort on researching and examining techniques to use on the project.
2	Bringing low performance	7/10	8/10	High	During the analyzing and designing phases, optimizing performance is prioritized
3	Overdue deadline	6/10	6/10	Medium	Hand over deadlines in respect of the number of tasks and the difficulty of each task.
4	Customer change software requirement during developing	7/10	7/10	Medium	Agreement between two parties on the specific details of the app is required. Discuss with customer about the demand of changing software requirements

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5	Lack of human resource	2/10	7/10	Low	Whoever thinks they couldn't continue with the project in the future should inform (the team) in advance.
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4.3.3 Configuration Management

- Use Google Drive for storing and sharing documents and files.
- Use Bitbucket for managing source code and related files.
- Slack is a communication tool between members.
- Trello and a tool for tracking working progress.