SHOR VIDEO APPLICATION

Version 1.1

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 02/11/2022 | 1.0 | Initial version | Vo Duy Truong |
| 16/11/2022 | 1.1 | Update | Vo Duy Truong |
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# Introduction

Sofware Development Plan on “Short video application” contains:

* Project Overview
* Project Organization
* Management Process

# Project Overview

## Project Purpose, Scope, and Objectives

Purpose: Develop an application as Tiktok.

Scope: Serve for 30-50 users.

Objectives: The application has basic features of a short video application and compatibility with a lot of devices.

## Assumptions and Constraints

* Project has a fixed schedule of 12 weeks
* Zero-budget project (Maybe have extra cost when using firebase)
  + Project has 5 people, there will be no more people added during the project
  + Source code, resources will be managed via github
  + Slack and Trello will be used to track project progress and assign tasks.

## Project Deliverables

|  |  |
| --- | --- |
| **Project Artifact / Report** | **Target delivery date** |
| Software Development Plan | 02/11/2022 (continue editing until 28/12/2022) |
| Vision Document | 02/11/2022 (continue editing until 28/12/2022) |
| Weekly Report | Sumary every two weeks until 28/12/2022 |
| The database schema | 04/11/2022 (continue editing until 28/12/2022) |
| Use-case model | 16/11/2022 (continue editing until 28/12/2022) |
| Use-case specification | 16/11/2022 (continue editing until 28/12/2022) |

# Project Organization

## Organizational Structure

## Roles and Responsibilities

**20120232 – Vo Duy Truong,** *project manager, developer, designer*

**20120175 – Le Thai Nhu Quynh,** *developer, tester, designer*

**20120215 – Tran Minh Toan,** *developer, designer*

**20120382 – Hoang Thu Thuy,** *developer, business analyst*

**20120188 – Le Tran Thien Thang,** *developer, designer*

# Management Process

## Project Estimates

This project is figured out to be done in 12 weeks due to the calculation of estimated cost *(based on the result of our team’s discussion)*:

* Estimated coding time: 133.4 hours
* Estimated total cost: 333.5 hours
* Estimated number of staffs working in 12 weeks (6.5 hours for each week): 5 staffs

If the project has any changes, the re-estimation will occur.

## Project Plan

### Phase and Iteration Plan

This project has 3 phases (Inception, Elaboration, Construction) and 6 iterations (1-2 weeks for each iteration).

* **Inception (13/10/2022 – 20/10/2022):** prepare basis for the project, including preparation of business case, establishing project scope, outlining key requirements, and possible architecture.
* **Elaboration (21/11-/2022 – 2/11/2022):** during this phase the project team is expected to capture a majority of system’s requirements to identify risks, and development of initial project plan—schedule with main milestones and cost estimates.
* **Construction (2/11/2022 – 28/12/2022):** Coding, finalizing and refining the system. This phase is divided into 6 iterations, for each iteration to result in an executable release of the system. The final iteration of construction phase releases fully completed system.

### Releases

This project is expected to have 6 versions.

Each specific version created will be added to the report after completed sprint.

### Project Schedule

*Chart

Description automatically generated with medium confidence*

|  |  |  |  |
| --- | --- | --- | --- |
| **Time** | **Member** | **Task** | **PA** |
|  | All members |  | PA0 |
|  |  |  |  |
|  | All members |  | PA1 |
|  |  |  |  |
|  | Trường | Sign up | PA2 |
| Quỳnh | Edit profile |
| Toàn | Delete account |
| Thắng | Sign in |
| Thủy | Design database schema |
|  | Trường | Add camera, allow user to watch, post video |
| Quỳnh |
| Toàn |
| Thắng |
| Thủy |
|  | Trường | React a video, design UI | PA3 |
| Quỳnh |
| Toàn | Follow/unfollow, design UI |
| Thắng |
| Thủy | Sign out, design UI |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Trường | Block/Unblock | PA4 |
| Quỳnh |
| Toàn |
| Thắng | Download video |
| Thủy |
|  | Trường | Post, react, reply, delete comment | PA5 |
| Quỳnh |
| Toàn |
| Thắng |
| Thủy |
|  | Trường | Allow others to download |
| Quỳnh |
| Toàn |
| Thắng | Search |
| Thủy |

## Project Monitoring and Control

### Reporting

Meetings with their frequency and agenda items are described below which are used to report project status.

Weekly meeting:

* Communicate project progress and problems
* Resolve outstanding issues
* Update an Action List/Backlog to correct problem areas
* Monitor risks
* Disseminate the activities planned for the week

Informal chats on Facebook group:

* Any Blocking Issue
* New Risks
* Any Action to be taken
* Re-allocation of the Tasks
* ...

sprint meeting:

* Sprint sumary and review
* Tasks to be achieved next sprint

### Risk Management

### Configuration Management

Tools to be used for storage and sharing source code and files:

* Storing and sharing documents and files: Onedrive
* Managing source code and related files: Github
* Saving data, management database: Firebase, cloud firestore
* Meeting: Google Meet
* Communication: Facebook
* Project management: Trello, Slack