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| --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | |  | | **MINISTRY OF EDUCATION AND TRAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Family Album Sharing System |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 12** | | | **Group member** | Huỳnh Trần Minh Nhựt – Leader – SE60936  Tô Đình Tân – Member – SE60926  Trần Lê Tuấn – Member – 60350 | | **Supervisor** | Nguyễn Huy Hùng | | **Ext. Supervisor** | N/A | | **Capstone Project code** | FAMSAM | | |
| – Ho Chi Minh City, September 2014 – |

Table of Contents

[1. INTRODUCTION 3](#_Toc399175229)

[1.1 Project Information 3](#_Toc399175230)

[1.2 Overview and solution 3](#_Toc399175231)

[2. SOFTWARE PROJECT MANAGEMENT PLAN 4](#_Toc399175232)

[2.1 Problem Definition 4](#_Toc399175233)

[2.1.1 Name of this capstone project 4](#_Toc399175234)

[2.1.2 Problem abstract 4](#_Toc399175235)

[2.1.3 Problem overview 4](#_Toc399175236)

[2.2 Project Organization 5](#_Toc399175237)

[2.2.1 Software process model 5](#_Toc399175238)

[2.2.2 Roles and responsibilities 5](#_Toc399175239)

[2.2.3 Tools and techniques 5](#_Toc399175240)

[2.3 Project Management Plan 5](#_Toc399175241)

[2.3.1 Tasks 5](#_Toc399175242)

[2.3.2 Risk assessment 5](#_Toc399175243)

[2.3.3 Deliverables 5](#_Toc399175244)

[2.3.4 All meeting minutes 5](#_Toc399175245)

[2.4 Coding Convention 5](#_Toc399175246)

# INTRODUCTION

## Project Information

* Project name: Family Album Sharing System
* Project code: FAMSAM
* Product Type: Web Application, Mobile Application

## Overview and solution

Nowadays, sharing photos through the internet has become more and more popular. At present, there are several service which provide photo album sharing feature like Facebook, Instagram, Flickr. However, they only support to share photos randomly, not fully support specific characteristics of each family. As result of the fact, users are on demands of a service for family to share their moment such as wedding, baby growing, and ceremonies.

Therefore, the system is created to provide functions like creating albums with stories, sharing albums with other families and users can comment on photos, albums or stories. Photos also can be taken by mobile’s camera and add to album instantly. The system will make families save their memorable moment and connect together easily.

# SOFTWARE PROJECT MANAGEMENT PLAN

## Problem Definition

### Name of this capstone project

Project official name is “Family Album Sharing System”. Project code is “FAMSAM”.

### Problem abstract

In order to satisfy users demand for a photo sharing system, this project is provide a website and mobile application that allow user to create or join families and share their stories/photos with others.

### Problem overview

#### The Current Systems

At moment, there are several services around the world which support photo album sharing as social network:

* Facebook (facebook.com): Facebook is a huge social network, which provide photo album and story sharing feature. However, when using Facebook, people tend to have many friends which they do not even know.
* Instagram (instagram.com): Instagram helps user to take and share picture to friends and family but all its feature only focus on mobile app.
* Flickr (flickr.com): Unlike Instagram, Flickr has rich feature user interface on both website and mobile app while it does not strongly support user to create story.

There are more photo album sharing system but after all, their services are not focus on family characteristic or groups of people that have strong relationship, who want to store, manage and share their specific moment through albums and stories.

#### The Proposed System

This product is a social network that support managing and sharing photo album among families. This also provide the most convenient and effective way to manage photo albums.

For more specific, the system supports the follow features:

* User can create, join or leave one or more families.
* User can request other family to make neighbor.
* While being a member of a family, user can create stories which contain photo albums for him/her family.
* User can manage their stories, also albums and photos.
* User can share their stories and albums with their neighbors.
* User can follow his/her neighbors to see if their added a new stories, albums.
* User can like, comment on stories, albums and photos.
* User can report bad photos to admin.
* User can add photos to an album directly by using phone’s camera.
* Admin can manage all registered user in the system.
* Admin can manage all the posts (photos, albums, stories) in the system.
* Admin can manage reports from users.
* The system can recommend similar posts (photos, albums, stories) for users based on their likes.
* The system can detect blur images added by user which caused by camera shaking, motion or low compressed.

#### Boundaries of the System

At current version, the system support for modern web browser as Chrome, Firefox and Internet Explorer 11.

Due to lack of time, the system does not include below features:

* Chat system.
* Image filter when upload.
* Multi-language.
* Auto detect and censor violent and obscene images.

#### Development Environment

##### Hardware requirement:

* Ram: 2 GB.
* CPU: Intel Core i3 2.5 GHz.
* HDD: 100 GB.

##### Software requirement:

* + Windows 7 or Windows 8.
  + .NET Framework 4.5.
  + Android 4.

## Project Organization

### Software process model

Our project use **Scrum** as project model.

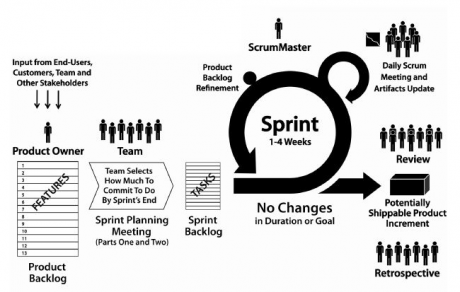


Figure 1 - Scrum Model [URL]

Due to Capstone Project characteristic, we decide each sprint takes one week. At the beginning of each sprint, we have sprint planning meeting, all team members will discuss to define sprint backlog which is suitable to be completed within a week. Daily report is operated through online conference meeting.

### Roles and responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Full name | Team Role | Scrum Team Role | Responsibilities |
| 1 | Nguyễn Huy Hùng | Supervisor | Product Owner | * Outline work in scrum backlog * Prioritize work * Answer question and deliver direction |
| 2. | Huỳnh Trần Minh Nhựt | Team Leader | Scrum Master | * Facilitate productivity – maximize team performance * Complete all individual work |
| 3. | Tô Đình Tân | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |
| 4 | Trần Lê Tuấn | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |

### Tools and techniques

##### Tools:

[bảng]

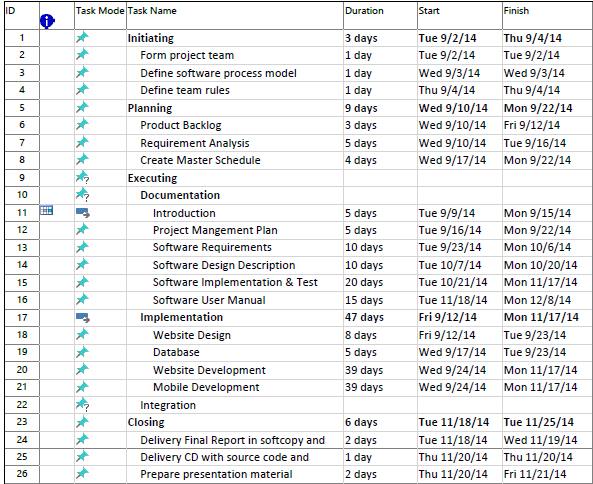
* Visual Studio 2013 Professional.
* TortoiseSVN.
* Google Code SVN.
* Microsoft Visio 2013.

##### Techniques

|  |  |
| --- | --- |
| Back-end | * ASP .NET Web API 2 as web service on server. * Microsoft SQL Server 2012 as database. * Entity Framework 6 as ORM. |
| Web front-end | * AngularJS 1.2 |
| Mobile front-end | * Use Ionic Framework to develop GUI and logic code using HTML, Javascript. * Apache Cordova to build and deploy app on mobile. |

## Project Management Plan

### Tasks



### Risk assessment

* Misunderstand user requirement.
* Study process may expand task’s duration.

### Deliverables

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Deliverable | Delivery date | Delivery location | Note |
| 1 | Introduction Document | 15/9/2014 | FU – CMS | Report No. 1 |
| 2 | Software Project Management Plan | 22/9/2014 | FU – CMS | Report No. 2 |
| 3 | Software Requirements Specification | 06/10/2014 | FU – CMS | Report No. 3 |
| 4 | Software Design Description | 10/20/2014 | FU – CMS | Report No. 4 |
| 5 | Software Implementation & Test | 17/11/2014 | FU – CMS | Report No. 5 |
| 6 | Software User Manual | 17/11/2014 | FU – CMS | Report No. 6 |
| 7 | Completed version of Report No. 1 to Report No. 6 | 08/11/2014 | Classroom  FU – CMS | Final version |
| 9 | CD contains all Source code and installable system | 08/11/2014 | Classroom | Final version |

### All meeting minutes

## Coding Convention

<https://famsam.googlecode.com/svn/doc/Standard_CSharp%20Coding%20Convention.pdf>