

Team3-Calendar documentation

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1 Project planning

1.1 Overview

1.1.1 Mission and scope

1.1.1.1 *What problem does this project address?*

Many people need to have a timetable to arrange their work. They can use a handbook and write down their own timetable, but using an electronic calendar is much more effectively. Nowadays, there is some offline calendar software which helps us arrange our work easily but not support sharing to other people our timetable and having a group timetable. For these reasons, we are going to produce Team3-Calendar to serve them.

1.1.1.2 *What is the goal of this project?*

Provides an effective online calendar called Team3-Calendar which support creating timetable, grouping timetable and some other utilities.

1.1.1.3 *What is the scope of this project?*

This project is quite small.

We will concentrate on some basic functionalities and the features which are enough to build a common calendar.

1.1.1.4 *What development methodology is being used?*

Agile method: XP programming is the main method.

However, we will combine some other methodologies flexibly for more effectively.

1.1.2 Status

We have completed Team3-Calendar version 3.0 which has almost important features:

- Login, registration, logout.
- Today function that display the current day.
- The functions of see and select any date.
- Note activities
- Creating a group calendar
- Transfer between solar calendar and lunar calendar

The next major milestone is the version 3.0 with complete graphical interfaces which users can use as easy as possible and add some extra feature such as lunar calendar and report the festival days.

1.2 Proposal

1.2.1 Background and Motivation

1.2.1.1 *What is the setting and history behind this project?*

There are many powerful desktop calendars that support creating timetable offline. There are also many powerful online calendars such as Google Calendar or Edmodo Calendar which have full perfect functionalities so that every user can arrange their work effectively. Google Calendar is too complex, thus it is difficult to be developed again by 2-years students as us. For the reason of learning software engineering effectively, we choose Edmodo Calendar which is easier to develop correspondingly.

1.2.1.2 *What are current approaches to this problem?*

Some calendar are developed independently such as offline desktop calendars or online calendar (Google Calendar)... Meanwhile some other are integrated in social network website such as Emodo. Each of them has their own particular advantages.

1.2.1.3 *How will this product be better than previous approaches?*

The previous calendars are very powerful with full functionalities of a calendar. But almost of them are quite difficult to use because of having too much functionalities, thus it would better if our product is simple as possible so that the user use it very easily. One thing that previous calendar don't have is lunar calendar, so we will try to add it to our calendar.

1.2.1.4 *Where is there more information on this problem?*

The following are some calendar website that we refer and base on them to develop our product. Almost our base functionalities are the same of theirs.

<https://www.google.com/calendar/>

<http://www.edmodo.com/calendar/v2>

1.2.2 Goal

1.2.2.1 *What is the goal of this project?*

This project will provides calendar website with complete functions as almost previous calendars but will be very simple and easy to use for all of user type.

1.2.2.2 *What are the defining features and benefits of this product?*

The website engine will be secure and only allow users with the proper permissions to edit, delete, or join a clan. This will prevent cheating or the submission of false information.

1.2.3 Scope

In scope	Out scope
Building a web application for use with standard web servers and application servers	Building a new web server or application server
Working the most popular browsers (from IE6, Google Chrome, Mozilla Firefox)	Working with uncommon or outdated browsers
Security in the form of user accounts, passwords, and permissions.	Special security against hackers. Finding or patching security holes in existing software components.
Database and server load and data volume that can be handled by one computer.	Managing a cluster of servers.
Building a simple graphical interface for using easily	Building more interface option

1.2.4 Deliverables

- Calendar with 3 base functions: login, logout, register and note (version 1.0)
- Calendar with full function: group, profile setting, today function, invite friends are added... (version 2.0)
- Calendar with the complete interface (version 3.0). This deliverable is the final product that is delivered to customer but may be evolve in the future if customer need.

1.2.5 Risks and Rewards

1.2.5.1 What are the main risks of this project?

- Some function may be not implemented because the lack of knowledge of us in website programming and database management.
- This product may be only operate in window operation because all of developers using windows to develop this project
- May have many errors because we are only beginner in software engineering, so the experience of testing is quite poor.
- The product may be not delivered on time because all developers are very busy.

1.2.5.2 What are the main rewards if this project succeeds?

If we accomplish this project, it may be not used for sales because we only develop according to Edmodo Calendar but we will learn software engineering effectively from this project. Another important thing is getting good result in SE course.

1.3 Project plan

1.3.1 Summary of project

This project is to experience software engineering. It was developed within a SE course.

1.3.2 Summary of methodology

1.3.2.1 *What general development approach will be used?*

- General approach: Use incremental development method, namely XP programming (but can combine with other methods in some particular activities for more effective)
- Important assumption:
- Key practice: concentrate on learning software engineering than produced a good product
- Project coordination: coding and writing document are operate parallel.

1.3.2.2 *How will the project team be organized?*

The project team consists of 5 developers:

- Nguyen Van Hoang – K55CA (project manager)
- Nguyen Phu Hieu – K55CA
- Nguyen Viet Duc – K55A
- Nguyen Van Diem – K55CA
- Nghiem Truong Giang – K55CA

Project guider: Dr. Truong Anh Hoang

The developers will classify in 2 group:

- Group of coder consists of Hieu, Giang and Diem concentrates on coding
- Group of writing documentation consist of Hoang and Duc (but this group may develop the interface to help above group if have time)

1.3.2.3 *What development and collaboration tools will be use?*

We plan to use the following tools extensively throughout the project:

- Project website: We use github.com to store project source code and exchange information between team members.
- Development tools: We use Django and Python to develop our calendar website. We also use HTML5, CSS3, Javascript, Ajax and JQuery to develop interface and other parts of the project.

1.3.2.4 Deliverable with deadline

Deliverable name	Delivery date
Version 1.0	16/3/2012 (week 6)
Version 2.0	13/4/2012 (week 10)
Version 3.0	11/5/2012 (week 14)

Three versions are described above in proposal

1.3.2.5 Risk management

The problem of management is the difference of timetable of developers. It is difficult to have the meeting frequently.

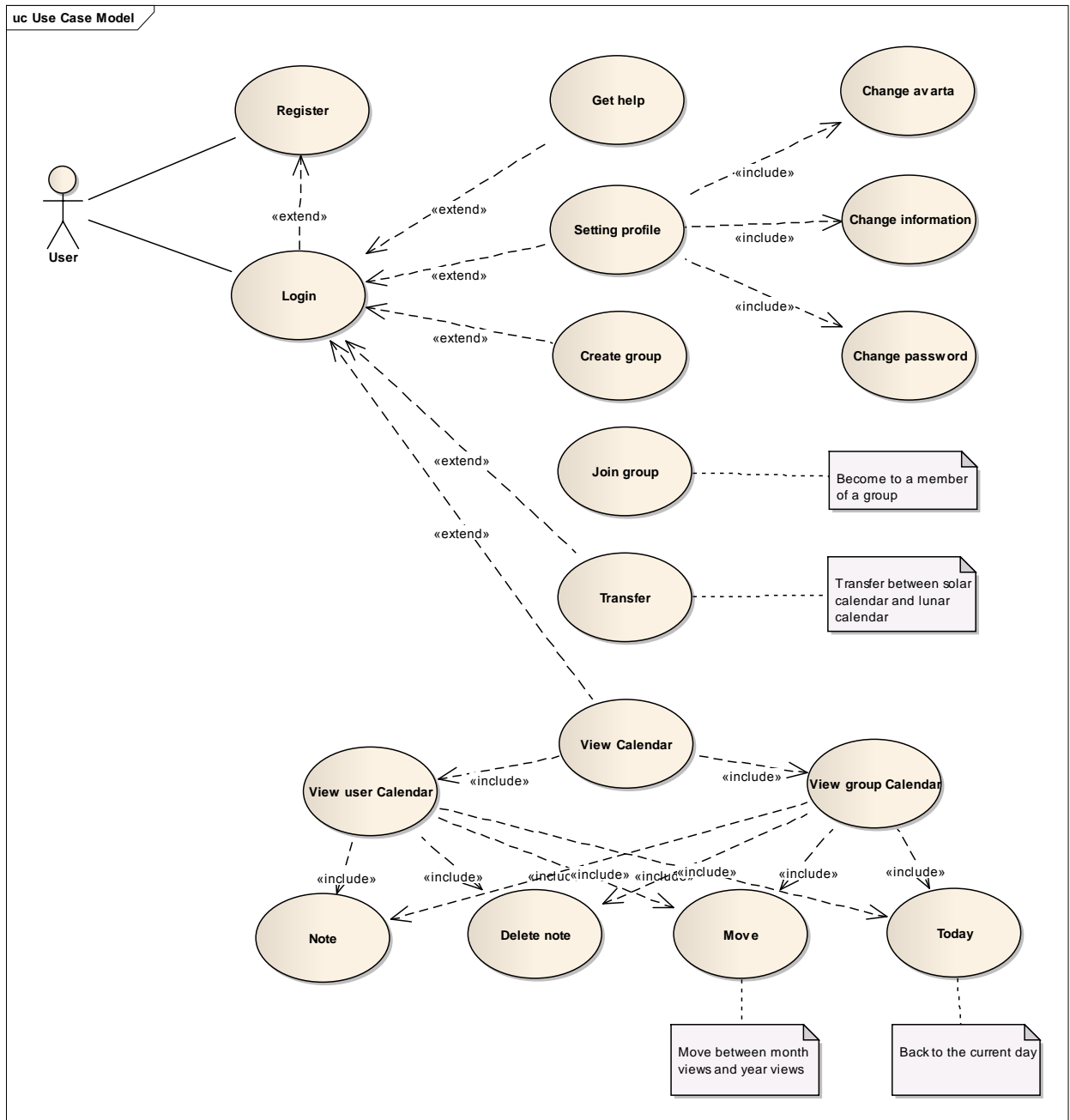
2 Requirements and specification

2.1 User needs

We will describe this part briefly because the stakeholders are only Dr. Truong Anh Hoang and us. The needs that Dr. Hoang want in our project is producing a calendar with the same base functionalities of Edmodo Calendar.

2.2 Software requirement specification

2.2.1 Use case



2.2.2 Functional requirement

The basic functional requirements are login, logout and register. It must be simple and correctly.

The website should provide the service for view calendar. User can move between year, month and day view. The selected boxes are designed to move to the specified year, month, date. The next and prev icon are designed to move to the next month, year or previous month, year. To today button is used for back to the current date wherever user is in.

Noting activities is an important feature. User can note more than one event in a date by click to the corresponding date. Whenever user login to the user's month page, user can see the event. Furthermore user can delete the events if he needs.

The web page will provide the service for setting profile. This service includes change password, username, email address, first name, last name, birthday ... and avarta.

The calendar is also include the function for transfer between solar and lunar calendar.

2.2.3 Non-functional requirement

The webpage should have a simple interface so user can use easily.

The webpage need to run on all base web browser such as IE6, Firefox, Chrome.... And display correctly in mobile device.

The webpage need to run fastly.

3 UML Diagrams

3.1 Classes

