# Report 2: Project Management Plan (PMP)

## 2.1. Problem Definition

### 2.1.1. Name of this Capstone Project

The official and formal project name is “**Online Medical Consultant System**”. Its abbreviation is **OMCS**.

### 2.1.2. Problem Abstract

With the emergence of the Internet, many systems have been built to reduce the gap between patients and doctors. They provide the convenient way by let patient communicate face-to-face with health care provider via social media. That is successful story from many developed countries that we try to apply for Vietnam using different approaches.

Nowadays, Vietnam hospitals usually are overwhelmed with patients. A lot of plans have been proposed to handle that situation. Besides that, taking a medical treatment at hospitals is not always a good choice due to the traveling cost, wasting time and unsafeness.

Based on observation, we see that there are many cases that patients don’t need to go to the hospital quite often because those can easily conduct via internet. So we want to improve the processes of medical treatment.

### 2.1.3. Project Overview

#### 2.1.3.1. The Current System

The current system I have known is a web application. This system will supply resources for interacting between patients and doctors. It helps doctors with their diagnosing, keeping tracking of disease process through webcam, medical record.

#### 2.1.3.2. The Proposed System

The main system will be a website.

The system will provide the following main features in front-end:

* Patient can have their medical profile when the first time they go to the hospital.
* With medical profile, doctor will have a reliable resource when conduct a video meeting to see the progress of healing periodically without meeting directly in the hospital.
* Besides the video meeting, our system provides real-time chat function and attach high resolution image to have more accurate view.

The back-end will allow the administrator to manage the most important resources as well as medical profiles on the site.

OMCS is useful for many specify cases like:

* Control chronic condition
* Skin infections, rashes diseases
* Periodically check the progress of healing

#### 2.1.3.3. Boundaries of the System

The system under development of this Capstone Project will include:

* The complete website.
* All the process documents involved.

#### 2.1.3.4. Development Environment

Hardware requirements:

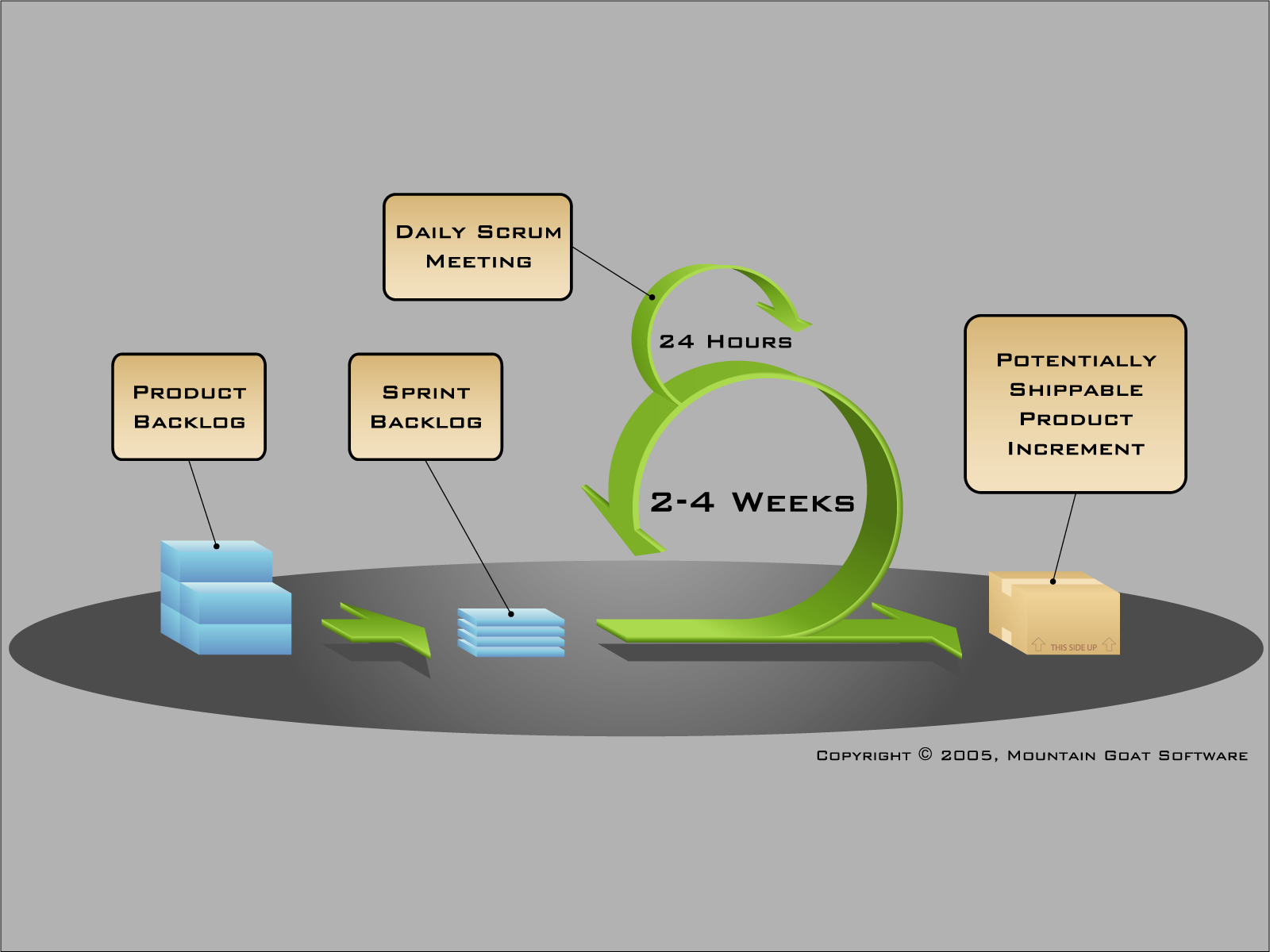
* A personal computer for developing with the minimum configuration: 1 GB of RAM, 20GB of hard disk, Core 2 Duo 2.0 Ghz.
* A server computer for testing with the minimum configuration: 2 GB of RAM, 20GB of hard disk, Core 2 Duo 2.0 Ghz.

Software requirements:

* Operating system: Windows 7/Windows Server 2008.
* Website Server: IIS 7
* Framework: .NET Framework 4.0
* IDE: Visual Studio 2012
* DBMS: SQL Server 2008 R2
* Source Control: Team Foundation Server 2010

## 2.2. Project organization

### 2.2.1. System Process Model



**Figure 1**: General SCRUM Process

### 2.2.2. Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| Full name | Role in Group | Responsibilities |
| Nguyễn Huy Hùng | Supervisor | * Tracking & managing progress. * Advising Idea & solutions. * Suggesting & supporting in technologies. |
| Trần Nguyên Tiến Sứ | Team Leader, Developer, Business Analyst, Tester, QA | * Tracking & managing progress. * Designing database. * Analyzing requirements. * Planning & scheduling. * Coding. * Testing. * Writing documents & reports |
| Trần Cao Danh | Developer, Business Analyst, Tester | * Analyzing requirements. * Designing database. * Coding. * Testing. * Writing documents. |
| Trương Hải Đăng | Developer, Business Analyst, Tester | * Analyzing requirements. * Designing database. * Coding. * Testing. * Writing documents. |
| Bùi Nguyễn Tín | Developer, Business Analyst, Tester | * Analyzing requirements. * Designing database. * Coding. * Testing. * Writing documents. |

### 2.2.3. Tools and Techniques

Tools:

* Microsoft Visual Studio 2012: Used to implement software modules.
* Microsoft SQL server 2008 R2 Express: Used as the database of the system.
* Microsoft Project: For the team leader to manage tasks of the members and the progress of the project.
* TortoiseSVN: Control source code of the whole project.
* Trello (<https://trello.com/>): Kanban for sprint
* Google Chrome, Firefox: Used to test the system.

Technologies:

* ASP.NET MVC 4
* Entity Framework Model First
* HTML 5,CSS 3,AJAX,jQuery,Bootstrap

## 2.3. Project management plan

### 2.3.1. Tasks

### 2.3.2. Task Sheet: Assignments and Timetable

### 2.3.3. All Meeting Minutes

<Put all your-team’s meeting minutes here as an appendix >

## 2.4. Convention Rules

This part requires of recommends certain practices for developing program in the C# language. The object of this coding standard is to have some positive effects:

* Avoidance of errors/bugs, especially the hard-to-find ones.
* Maintainability, by promoting some proven design principles.
* Maintainability, by requiring or recommending a certain unity of style.
* Performance, by discussing wasteful practices.

We will use the coding convention for C#.

<http://msdn.microsoft.com/en-us/library/ff926074.aspx>