# Project Management Plan (PMP)



## Problem Definition



### Name of this Capstone Project

|  |  |
| --- | --- |
| **Official name** | Office Rental Service |
| **Vietnamese name** | Dịch vụ cho thuê văn phòng |
| **Abbreviation** | ORS |

### Problem Abstract

Almost medium and small companies don’t build a new office. They usually look up on internet to rent office. But they can’t find a suitable office for them. Or the price to hire a third party broker company is too high. Besides, the office they rent doesn’t provide the necessary equipment and the time to repair is too long. So, our system will solve that problem. It not only helps you find a suitable office but also has other useful services.

### Project Overview

#### Current Situation

There are some current websites such as vanphongthue.com.vn, rongbay.com, timvanphong.vn, etc. All of them have some advantages and disadvantages.

* Advantages:
  + Friendly and specialized interface.
  + Providing search engines criteria.
  + Direct consultation with the manager.
* Disadvantages:
  + Not regularly updated information.
  + Not support map.
  + Few pictures describing office.
  + Not provide equipment.

#### The Proposed System

The system will help customers find suitable office. If you don’t find a suitable office, you can make a request. When our system find some office that meet your requirement, it will send email for you. If you need repair office, our system will send staff to fix that problem as soon as possible. Moreover, our system also provide rental equipment for you.

In more detail, the system would contain following features:

##### Website

* Guess can search office and view detail. If they want to make appointment, they need to register.
* Customer can review office, request appointment, request office (if they can’t find ones), request rental equipment and request repair.
* Admin can manage staff and manager.
* Manager can create and delete contract. They also can assign staff to repair for customer and view statistic of system.
* Staff can view list, create, update and delete office. When staff finish repair for customer, they can report to manager. They also can approve or delete rental equipment.

#### Mobile Application

* Staff can check task and update status request repair.

#### Boundaries of the System

* The system is intended for customers who want to rent office (such as businessman, medium or small company,…).
* The language of the system is Vietnamese
* The complete product includes:
  + The website, for admin, staff, customers and guest to interactive with the system.
  + Mobile application for staff to check task and update status request repair.
  + All the process involved document.

#### Development Environment

* **Hardware requirement for server computer**

|  |  |  |
| --- | --- | --- |
| Windows | Minimum Requirements | Recommended |
| Internet Connection | Cable, Wi-Fi (2Mbps) | Cable, Wi-Fi (8 Mbps) |
| Operating System | Window server 2008 | Window server 2012 |
| Computer Processor | Intel® Celeron® Processor 2957U (1.40 GHz) | Intel® Core™ i3-3210 Processor |
| Computer Memory | 1GB RAM | 4GB or more |

Table 2: Hardware Requirement for Server

* **Hardware Requirement for Web User**

|  |  |  |
| --- | --- | --- |
| **Web** | **Minimum Requirements** | **Recommended** |
| **Internet Connection** | 2Mbps | 4Mbps |
| **Web Browser** | Firefox 30 | Firefox 38 |

Table 3: Hardware Requirement for Web User

* **Hardware requirement for mobile app**

|  |  |  |
| --- | --- | --- |
| Windows | Minimum Requirements | Recommended |
| Internet Connection | 2Mbps | 4 Mbps |
| Operating System | Android 4.0 | Android 4.4 |
| Hardware |  |  |
| Memory | 10MB | 10MB |

Table 4: Hardware Requirement for Mobile

* **Software requirements**
  + Operating system: Windows 7, or above;
  + Framework: Hibernate with JDO 2.0;
  + Modeling Tool: Visual Paradigm Community
  + IDE: Intellji Idea;
  + DBMS: Microsoft SQL Server;
  + Source Control: GitHub, Git for windows, Tortoise Git.

## Project organization



### Software Process Model

### Roles and Responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Full name** | **Role in Group** | **Responsibilities** |
| **1** | Nguyễn Trọng Tài | Supervisor/ Project manager |  |
| **2** | Lê Xuân Tiến | Team Leader, Developer, Tester |  |
| **3** |  | Developer, Tester |  |
| **4** |  | Developer, Tester |  |

### Tools and Techniques

* *Front-end*: CSS3, HTML5, JavaScript, JQuery, Ajax, Java Android, Cordova.
* *Back-end*: ASP.NET MVC4, .Net Framework 4.0.
* *Web Server*: Microsoft IIS 8.
* *Developing Tool*: Microsoft Visual Studio 2013, Eclipse, JetBrains WebStorm 7.0.3.
* *Database Management System:* Microsoft SQL Server 2012.
* *Source Control:* Team Foundation Server.
* *Modeling Tool*: Software Ideas Modeler.
* *Document Tool*: Microsoft Office 2013.

## Project management plan



### Software development life cycle

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phase** | **Description** | **Deliverables** | **Resource**  **needed** | **Dependencies**  **and**  **Constrains** | **Risks** |
| **Requireme**  **nt Analysis** |  |  |  |  |  |
| **Design** |  |  |  |  |  |

### Phase Detail

Below are all the major tasks that need to be performed sequentially during the development of the system.

#### Task 1: Initiating

|  |  |  |
| --- | --- | --- |
| **Task** | **Description** | **Author** |
| **1.** |  |  |

### All Meeting Minutes

Refer to Meeting Minutes folder.

## Coding Convention