**Software Requirements**

**Specification**

**For**

**Meeting Room**

**Booking System**

**(MRBS)**

**Version 0.2**

**Prepared by K15T1-Team11**

**Van Lang University**

**Jun 16, 2012**

**Table of Contents**

[1. Introduction 1](#_Toc327609584)

[**1.1.** **Purpose** 1](#_Toc327609585)

[**1.2.** **Scope** 1](#_Toc327609586)

[**1.3.** **Definitions, acronyms, and abbreviations** 1](#_Toc327609587)

[**1.3.1.** **Definitions** 1](#_Toc327609588)

[**1.3.2.** **Acronyms** 1](#_Toc327609589)

[**1.4.** **References** 1](#_Toc327609590)

[**1.5.** **Overview** 1](#_Toc327609591)

[2. Overall Description 1](#_Toc327609592)

[**2.1.** **Product Perspective** 1](#_Toc327609593)

[**2.2.** **Product Feature** 1](#_Toc327609594)

[**2.3.** **User Classes and Characteristics** 1](#_Toc327609595)

[**2.4.** **Operating Environment** 1](#_Toc327609596)

[**2.5.** **Design and Implementation Constraints** 1](#_Toc327609597)

[**2.6.** **User Documentation** 1](#_Toc327609598)

[**2.7.** **Assumptions and Dependencies** 1](#_Toc327609599)

[**2.7.1.** **Assumptions** 1](#_Toc327609600)

[3. Specific Requirement 1](#_Toc327609601)

[**3.1.** **External Interface Requirements** 1](#_Toc327609602)

[**3.1.1.** **User Interfaces** 1](#_Toc327609603)

[**3.2.** **System Features** 1](#_Toc327609604)

[**3.2.1.** **Use case and Domain Object Model** 1](#_Toc327609605)

[**3.3.** **Software Quality Attributes** 1](#_Toc327609606)

[**3.3.1.** **Performance Requirements** 1](#_Toc327609607)

[**3.3.2.** **Usability Requirements** 1](#_Toc327609608)

[**3.3.3.** **Other Requirements** 1](#_Toc327609609)

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Name | Date | Reason for Changes |
| 0.1 | Tam Do | Jun 16, 2012 | Template |
| 0.2 | Tam Do | Jun 16, 2012 | Draft |
|  |  |  |  |

1. **Introduction**
   1. **Purpose**

The SRS document created by the team 11 provides both the functional and non-functional requirements of the Meeting Room Booking System (MRBS). This document includes definitions, specifications, and other information that will be helpful for the customer and for the team 11 to have a clear understanding of the system to be developed.

From this document, the customer will be able to understand our team’s comprehension of the requirements. This document can be updated or revised when required by the customer as we consider our customer’s demands important for our project. This document will evolve according to the requirement.

* 1. **Scope**

MRBS will help the faculty officer manages the meeting room, statistic and report for IT faculty department, use for one branch, one computer and use bar code.

*(Hệ thống MRBS được phát triển dựa trên window app, giúp nhân viên quản lý phòng (faculty officer) quản lý việc cho mượn các phòng họp, thống kê báo cáo tình trạng sự dụng các phòng cho khoa công nghệ thông tin trường đại học Văn Lang, sử dụng cho 1 cơ sở, 1 máy duy nhất và có sử dụng máy quét mã vạch)*

* 1. **Definitions, acronyms, and abbreviations**
     1. **Definitions**

|  |  |
| --- | --- |
| Term | Definition |
|  |  |

* + 1. **Acronyms**

|  |  |
| --- | --- |
| Acronyms | Abbreviations |
| SRS | Software Requirement Specification |
| GUI | Graphical User Interface |
| CMU | Carnegie Mellon University |
| FC | Function |
| FT | Feature |

* 1. **References**

**HPIMS\_SRS v1.03 CMU**

* 1. **Overview**

In section 2, the project overview is described. We have also given information on what and how we will handle the project.

In section 3, the detailed functional and non-functional requirement is described in a way that no ambiguous aspects are left.

1. **Overall Description**
   1. **Product Feature**

MRBS consists of three functional parts. User Management, Functional Operation and Categories: This program also provides Graphical User Interface (GUI) for the user. The three major functions are as follows:

* User Management: *(Kiểm tra trùng lặp tài khoản đăng nhập, phân quyền truy cập đối với tài khoản người dùng, import file từ Excel file (\*.xls) …)*
* Functional Operation: *(Hỗ trợ chính cho việc thao tác mượn phòng, xem báo cáo, …)*
* Categories: *(Danh mục …)*
  1. **User Classes and Characteristics**

There is only one type of user: the faculty officer.

* 1. **Operating Environment**

The target system is a standalone application in a PC environment on Microsoft Windows XP, 7 with Microsoft SQL Server 2008.

The system will be developed using platform-independent C# language.

1. **Specific Requirement**
   1. **External Interface Requirements**
      1. **User Interfaces**

This user interface is prototype made after discussion among team 11. This will help the client to see the user interface of our final program artifact in this project. The contents and appearance can be changed or refined based on the user’s requirement and technical constraints.

* + - 1. **User Interfaces architecture**

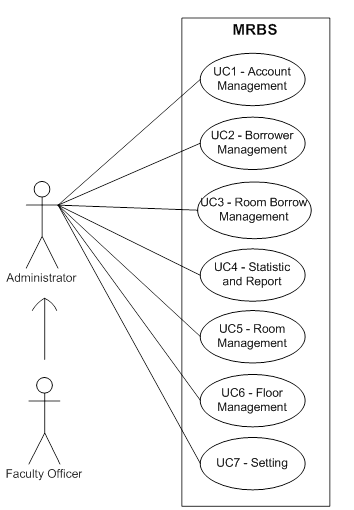
This is the overall architecture of MRBS prototypical user interface. The user interface is divided into three, mainly based on the functions of MRBS.



* + - 1. **User Management**
      2. **Functional Operation**
      3. **Categories**
  1. **System Features**

|  |  |  |
| --- | --- | --- |
| Function | Feature | Description |
| FC1 – Account Management | FT1.1 – Create |  |
| FT1.2 – View |  |
| FT1.3 – Edit |  |
| FT1.4 – Search |  |
| FT1.5 – Lock/Unlock |  |
| FT1.6 – Sign In |  |
| FT1.7 – Sign Out |  |
| FC2 – Borrower Management | FT2.1 – Create |  |
| FT2.2 – View |  |
| FT2.3 – Edit |  |
| FT2.4 – Search |  |
| FC3 – Room Borrow Management | FT3.1 – Register |  |
| FT3.2 – Check In |  |
| FT3.3 – Check Out |  |
| FT3.4 – Change |  |
| FT3.5 – Approve/Reject |  |
| FT3.6 – Search |  |
| FC4 – Statistic and Report |  |  |
| FC5 – Room Management | FT5.1 – Create |  |
| FT5.2 – View |  |
| FT5.3 – Edit |  |
| FT5.4 – Search |  |
| FC6 – Floor Management | FT6.1 – Create |  |
| FT6.2 – View |  |
| FT6.3 – Edit |  |
| FT6.4 – Search |  |
| FC7 – Setting | FT7.1 – Priority |  |
| FT7.2 - Email |  |

* + 1. **Use case and Domain Object Model**



|  |  |  |
| --- | --- | --- |
| Use Case ID | Use Cases | Primary Actor |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

* 1. **Software Quality Attributes**
     1. **Performance Requirements**
     2. **Usability Requirements**
     3. **Other Requirements**