**MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

Equipment Classroom Management

|  |  |
| --- | --- |
| Group 10 | |
| **Group member** | Tran Vinh Quang – SE61078  Tang Viet Hung – SE61019  Doan Nguyen Minh Chi – SE60717 |
| **Supervisor** | Kieu Trong Khanh |
| **Ext. Supervisor** | N/A |
| **Capstone Project Code** | ECRM |

-Ho Chi Minh City, May 11, 2015-

Table of Contents

[**Table of Contents** 3](#_Toc419144599)

[**List of Tables** 4](#_Toc419144600)

[**List of Figures** 5](#_Toc419144601)

[**Definitions, Acronyms and Abbreviations** 6](#_Toc419144602)

[**A.** **Introduction** 7](#_Toc419144603)

[**1.** **Project Information** 7](#_Toc419144604)

[**2.** **Introduction** 7](#_Toc419144605)

[**3.** **Current Situation** 7](#_Toc419144606)

[**4.** **Problem Definition** 7](#_Toc419144607)

[**5.** **Proposed Solution** 7](#_Toc419144608)

[**5.1.** **Feature Function** 8](#_Toc419144609)

[**5.2.** **Advantages and disadvantages** 8](#_Toc419144610)

[**6.** **Functional Requirement** 8](#_Toc419144611)

[**6.1.** **Manage Equipment.** 8](#_Toc419144612)

[**6.2.** **Notify damage and fixing the equipments** 8](#_Toc419144613)

[**6.3.** **Manage Classroom** 8](#_Toc419144614)

[**7.** **Role and Responsibility** 8](#_Toc419144615)

**List of Tables**

[Table 1: Role and Reponsibility 7](#_Toc419144315)

# List of Figures

No table of figures entries found.

# Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| Name | Definitions |
|  |  |

1. **Introduction**
   1. **Project Information**

* Project Name**: Equipment Classroom Management.**
* Project Code**: ECRM.**
* Product Type**: Web Application, Mobile Application.**
* Start Date**: May 11, 2015.**
* End Date**:** 
  1. **Introduction**

Nowadays, the number of equipment in school are increasing with the rising of students, but in each school, they has only 1 or maybe 2 people, who manage all equipment of school. All problems about equipment will report to that people and they must fix this as soon as possible. Reporting is done by report directly from user (or make a phone call) to equipment manager and manager should check and find who can fix this equipment and notice to fix this.

In the other hand, we haven’t applied any application yet, that allow tracking status of equipment, help the manager easy to manage equipment, decrease work of manager but the quality always ensures.

So, our system would be created to solve these problem.

* 1. **Current Situation**

At the moment, all the equipment in the school is not managed by any software. Staff have to gather many information such as number of classroom, status of classroom, status of equipment in each room…., each 6 or 12 months they must check all the equipment about the damaged. But in this 6 months when some equipment was being damaged, the staff only knows about that damaged if someone reports it to them. After that, staff will track status, notice to fixer to fix this. In the other hand, staff must check which room available if changing is needed.

* 1. **Problem Definition**
* Wasting time to report problem
* It is possible of causing wrong information while reporting is problems like wrong room number or equipment.
* If changing room is needed, it’s hard to check which room is free to use.
* Cannot track current status, life time of equipment.
  1. **Proposed Solution**

Building the application supports the staff manage the equipment’s classroom. The Classroom type is present with position of each equipment. The user can report their damage by checking, then that report is notified to staff. The staff also notify to the reported about fixing.

* + 1. **Feature Function**
       - Classroom management.
       - Room type management.
       - Notify about damaged equipment.
       - Equipment management.
       - Create or mapping schedule by import excel file.
       - Statistic about equipment.
    2. **Advantages and disadvantages**
       - Advantages
         * The report is created easier and faster. Saving time for equipment staff.
         * Easy to find the available room if changing room is needed.
         * The notification are received real-time, so the equipment will fix faster.
         * Staff easily finds the position of failure equipment which shows in classroom map.
         * Equipment histories are researched exactly and quickly.
         * Show statistics about equipment’s status, using time…
       - Disadvantages
         * The system would not check the behavior of user, so if the report is not correct, the notification will be wrong.
         * The system could not check validate data imported from excel file.
  1. **Functional Requirement**

Function requirements of the system are listed as below

* + 1. **Manage Equipment**
       - Support to manage all equipment in school.
       - Tracking status equipment.
    2. **Notify damage and fixing the equipment**
       - Report the damage about equipment by checking. This also send notify to staff.
       - Check the notification and fixing the equipment.
       - Notify to reporter about that fix.
    3. **Manage Classroom**
       - Support to manage all classroom in school.
       - Tracking status of classroom
  1. **Role and Responsibility**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Full Name | Role | Position | Contact |
| 1 | Kiều Trọng Khánh | Project Managers | Instructor | khanhkt@fpt.edu.vn |
| 2 | Trần Vĩnh Quang | Developer | Leader | quangtvse61078@fpt.edu.vn |
| 3 | Tăng Việt Hưng | Developer | Member | hungtvse61019@fpt.edu.vn |
| 4 | Đoàn Nguyễn Minh Chí | Developer | Member | chidnmse60717@fpt.edu.vn |
| 5 |  |  |  |  |

Table 1: Role and Reponsibility