**MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

Equipment’s Classroom Management

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| Group 10 | |
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| **Capstone Project Code** | ECRM |

-Ho Chi Minh City, May 11, 2015-

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# Definitions, Acronyms and Abbreviations

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| Name | Definitions |
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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, number of equipment in school are increasing with the rising of students and makes equipment management becoming more important. Therefore, our project looks to meet the demand of managing equipment. We provide website and mobile application for user to send and receive notification about damaged equipment, analyze damaged level to make recommendations, find available classroom and send SMS for related persons, view equipment statistics.

* 1. **Current Situation**

At the moment, all the equipment in the school is not managed by any software. Staff has 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. When there is any problem occurred, teacher has to report directly to staff and it causes wasting time to report. After that, staff will track status, notice to fixer to fix this. In the other hand, staff must check which room is available if changing is needed.

* 1. **Problem Definition**

Advantages:

* Requires less human resources.

Disadvantages:

* Wasting time to report problem.
* Manage equipment by document, book…
  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**

Admin can:

* Manage account.
* Manage classroom.
* Manage classroom type.
* Manage equipment.
* Create schedule by import schedule excel file.

Staff can:

* View equipment current status and statistic.
* Receive notification about damaged equipment.
* Resolve notification.

Teacher can:

* Send notification about damaged equipment.

System can:

* Analyze damaged level and give recommendations.
* Find available classroom.
* Send SMS.
  + 1. **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.
         * Easy to make decision thanks to recommendations from system.
         * 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.
         * System can’t apply to complicated classroom likes discuss room…
         * The system could not check validate data imported from excel file.
         * User must have internet connection to use this.
  1. **Functional Requirement**

Function requirements of the system are listed as below:

* + 1. **Equipment Management**
* Support to manage all equipment in school.
* Track status equipment.
  + 1. **Notification**
* 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.
* Send SMS.
  + 1. **Classroom Management**
* Support to manage all classroom in school.
* Track status of classroom.
  + 1. **Damaged Analysis And Recommendations**
* Analyze about damaged level of classroom and give recommendations.
  + 1. **Suggest Available Classroom**
* Find a similar available classroom with the current classroom.
  1. **Role and Responsibility**

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| --- | --- | --- | --- | --- |
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Table : Role and Reponsibility