**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Problem Statement**

**for**

**The Automatic**

**Attendance Checking System**

**Version 1.0**

**Prepared by Huynh Vinh Nam**

**Le Huy Duc**

**Cao Phuong Linh**

**OOAD Group 2**

**25-Nov-2018**

**Table of Contents**

**Revision History**

**1. Introduction**

**1.1. Purpose**

This is a report on the subject Object-oriented Analysis and Design of group two, class ICT-BI7 about Problem Statement of the project AACS.

**1.2. Document Conventions**

None.

**1.3. Intended Audience and Reading Suggestions**

*The different types of reader that the document is intended for are:*

**● Project managers:** who manage and take respond for the quality of the system. Project managers should read the whole document for planning and assigning work.

**● Developers:** Dev is the person who implement the system from the design and documents into a runnable version. Dev have to read the whole document to implement the right system.

**● Tester:** Tester should read the detail to write unit test particularly.

**● Documentation writers:** who will write the future document (report, minutes).

*The content of report includes three main parts:*

**● Part 1 Addressing the Problem:** Explain the reasons why we chose “The Automatic Attendance Checking System”. The contents include: demand, problems.

**● Part 2 Solution:** According.

**● Part 3 End user:**

**1.4. Product Scope**

The software’s main users are students and lecturers. Software will create an environment where user (student) can check for the attendance and user (lecturer) can view and/or manage the attendance list in the course(s).

**1.5. References**

None

**2. Addressing the problem**

**2.1. Demand for Automatic Attendance Checking**

In university, sometime taking students’ attendance is time consuming for instructors, especially when classes are big and/or students aren’t honest enough. Statistically, the process of taking attendance takes around ten minutes in a single lecture. In other words, the total time waste for this action can take up to 90~150 minutes in a course, as the time assigned for each subject is about 36~45 hours per semester and 3 hours per lecture. Also, with the widespread of smartphones among university students, the automatic attendance checking system will make use of them and reduce the wasted time.

**2.2. The problems**

**●** First, we should have an automatic system which is effective for lecturer to take students’ attendance and manage the list.

**●** Second, we should take advantages of available smartphones so that we can reduce the time of performing attendance (multiple students can check for their attendance simultaneously).

**●** Finally, the data of attendance per lecture is always stored. Information of this data consists of: student’s ID, name, date and time, in which subject, who’s the lecturer.

**3. Solution**

**3.1. Descriptions**

**3.2. Basic Tasks**

**4. End Users**

**5. Conclusion**