De La Salle University-Dasmariñas

Student Tracker Using Radio Frequency Identification Technology

An Undergraduate Research Proposal Presented To
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Degree of Bachelor of Science in Computer Science

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Abstract

The Student Tracker Using Radio Frequency Identification Technology is a generic system which makes student tracking and monitoring of their whereabouts activities in the school's vicinity for the students' guardian possible.

There is no existing student tracker system being implemented in De La Salle University-Dasmariñas although some schools in the Philippines, like Colegio de San Juan de Letran and other private schools, have already been using RFID technology and installed RFID scanners in their gates. The study was made to provide a system that will be very useful to the school, to students' guardians and even to the students too. With this, students' safety will be tracked and monitored which assures students' security.

The system is divided into two main modules, namely: Admin Module and Student Tracker Module. In the Admin Module, different records necessary for the different system's functionalities and processes are stored and managed securely. On the other hand, general flow processes of detecting valid student ID and sending notifications to the students' guardians are efficiently occurring in the Student Tracker Module.

The Student Tracker Using Radio Frequency Identification Technology was developed using C# programming language in a .NET framework by the proponent. It has been demonstrated and evaluated by IT experts, guardian representatives, and several computer science students of DLSU-D. Based on the final result of different demonstrations and evaluations, the system got the satisfaction of the users which made it credible for possible actual implementation and deployment in DLSU-D. It has been well accepted by the students, guardians, and IT experts based on the results.