PARENT ALERT SYSTEM (PAS) VIA SMS

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ABSTRACT

The wireless technology is the most interesting technology in the ICT industry today. Alert system has widely used in many arias and types. The most one is using SMS to alert people or users and notify them about specific action. The poor of education is one of the crime reasons in Malaysia. Indeed, to protect the teenage and children to be engaged in such environment and crimes, this study aims to contribute in efforts to keep them away. The study aims to design a web-based attendance system to help the teachers and parents to control the students if they absent from the school. The Parent Alert System (PAS) prototype is introduced to be used by the teachers in high schools. Charging scheme for SMS is out of the study scope. The system covers two main functionalities: First function is to get the attendance information of the students and the second one is to send SMS to the parents if their son/daughter is absent to alert them. The General Methodology of Design Research is adopted to achieve the research objectives. The adapted methodology comprises five steps that are: awareness the problem, suggestion, development, evaluation and conclusion. Results of user evaluation on the PAS indicate that it has good usability in terms of Usefulness, Ease of Use and Outcome and Future Use. An independent samples t-test was conducted to compare the Usefulness, Outcome and Future Use and Ease of Use on two groups of participant who own mobile phone and others who do not own mobile phone. The t-test results indicate that there is no statistically significant different in the mean Usefulness, Outcome, or Future Use, and Ease of Use on the two groups.
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1.1 Background

The wireless technology is the most interesting technology in the ICT industry today, where there is much innovation and research. As technology developed through time, advances in telecommunication and computer hardware knowledge have led to the emergence of mobile computing (Chipangura, Terzoli, Muyingi, & Rao, 2006). Mobile computing provides instant deployment of service over a large geographical area and offers every user many services. Information Communication Technologies (ICTs) play a significant role in enhancing developing countries (Pade, Mallinson, & Sewry, 2006). As a convenient and low-cost mobile communication technology, Short Messaging Service (SMS) is experiencing very rapid growth. Pade, et al. (2006) reported that 700 million mobile phone users worldwide sent 20 to 30 billion SMS messages every month in 2001. At the same time, SMS applications have emerged to provide mobile users consumer oriented services (Xu, Teo, & Wang, 2003). It also can facilitate communication and the transformation of information from business to business, business to customers, employers to employees in more added value services (Karim, Darus, & Hussin, 2006).

Epstein and Sheldon (2002) have suggested that schools interested in improving or maintaining good attendance can benefit from taking a comprehensive approach which includes students,
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REFERENCES


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