The proposed information system design to improve new students

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Abstract. This study discusses the design of digital monitoring system to monitor prospective new students, the aim of which is to measure the quantity of prospective new students and as a media to help decision making in the future. The method used in this study is the Mobile Development Life Cycle. In building an application on cellular, there is an examination called process, the process in software development is called Software Development Life cycle which functions to check the whole phase in MDLC which includes the Inception, Design, Development, Stabilization, Deployment phases. Apart from the process, there is also a consideration when building a mobile application is checking the influence on the development of the cellphone itself. The results obtained from this study are prospective student data including contact numbers that can be followed up by the admissions committee.

1. Introduction

Digital monitoring system makes it possible to display information data needed on a digital device (monitor) to become a reference/ indicator of performance parameters in the rest of the work which is the material for future evaluation. In this case the monitored data are prospective new students at one of the private universities, the data received is stored in a computing database device, and is displayed as a graph on the monitor, where the data is not only revealed but can be followed up by a particular part of acceptance of prospective new students.

"Organizations need a system to manage information and present it in an efficient and effective form in this case is the prospective student's real time data. The New Student Admission Team (PMB) will be more efficient because the information can be easily and quickly understood by PMB [1]. "The role of monitoring is to recognize and evaluate the development of new students, namely whether this monitoring system is built can increase the number of prospective new students in each year" [2]. This monitoring function uses a collection of systematic indicators to provide data in accordance with the interests in managing the new student admission system. The problem that occurs at this time is the data of new students who are always the same in number each year and even tend to decline, so for that a system can be created that can monitor and collect new student data which later becomes the evaluation material in increasing the number of new students [3]. It is a primary object of the present invention to provide generally described above that incorporates cellular digital packet data transmission [4]. The information in all of the unrelated connections may thus need to be correlated in order to obtain information about the transfer, and Such correlation may need to be carried out in an uncertain or untrustworthy environment [5]. Transmitting the operating data to an on-site monitoring computer in real-time via a local area network that connects the on-site monitoring computer to the interface[6]. The
invention provides a network monitoring System that comprises a network router with built-in monitoring data gathering [7]. The present disclosure relates to performing copy and/or data management operations in a computer network and, in particular, to systems and methods for performing data replication in a storage management system [8].

2. Mobile development life cycle
This study uses several approaches and tools used such as using:
Mobile applications have complex functionality and are different from desktop applications; the following Mobile Application Development Lifecycle model (MADLC) is proposed to enable a systematic approach in development [9].

![Figure 1. Mobile Application Development Lifecycle][1]

3. Research methods
Data collection in this study is in the form of interviews, observation and literature studies. While the application development method used is using MDLC. The final series of research is the stage of how to plan to reach the goal.

![Figure 2. Research framework][2]
4. Result recommended interface
The results obtained from this study are in the form of application prototyping and proposed a digital monitoring system.

4.1. Application prototyping

Figure 3. Application prototyping.
4.2. Digital monitoring system

The Research team went to schools to promote and deliver information about the campus, which then provided information about online registration using the application, where data on prospective students who have registered will be stored in the database of student interest in the campus. Interest data from students will be graphically displayed in real time on a monitor called the Digital Monitoring System; the graph shows the number of prospective male and female data and interest graph data for each faculty. This is where the Admission of new students team will follow up the student candidates who have submitted through the registration application to convey information that interests the prospective new students and does not change the minds of potential new students to move and register on other school.

5. Conclusion
With a Digital Monitoring System that can monitor prospective new students, it can be concluded that the points to be obtained are: Having prospective student real-time data that can be followed up by the PMB team, have data for reference for evaluating the parts of the roadshow team, have data for reference evaluation section of the PMB team, has work performance indicators.

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