UNIVERSITI TEKNOLOGI MARA

STUDENT INFORMATION MANAGEMENT SYSTEM (MyIlmiah) FOR PUSAT TUISYEN SUMBER ILMIAH (PTSI) USING MILLER'S LAW

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ABSTRACT

Management Information Systems (MIS) are designed to enable organisations to collect, store and harness information to support efficient daily operations and improved decision-making. The focus of this project is Pusat Tuisyen Sumber Ilmiah, which is in Puncak Alam and offers tuition services to students using traditional methods to process student registrations, pay tuition fees, schedule classes and maintain records using paper-based processes. Outdated methods of processing student records led to issues including excessive time consumption, human error, loss of records due to poor organisation, difficulty tracking payments, and confusion among staff, students and parents. The objectives of this project were to identify system requirements, design and develop a Student Information Management System called MyIlmiah, and evaluate its functionality and usability. MyIlmiah was developed as a web-based and centralised system to manage student records, registrations, payments, schedules, and report generation in one platform. The system interface was designed based on Miller's Law, which limits the amount of information shown to reduce confusion and make the system easier to use. This project followed the adapted waterfall model which consist of preliminary study, analysis, design, implementation, testing and evaluation, and documentation. The system was evaluated through functionality test and usability testing involving three experts and 36 users using the System Usability Scale (SUS). The result recorded a score of 88.6, which is classified as Excellent. In addition, experts feedback was positive, highlighting the system's clear layout, structured navigation, and effective application of Miller's Law. The findings show MyIlmiah greatly increase administrative efficiency by reducing manual workload, human error in handling data, and improving data accessibility and satisfaction for the end-user. Therefore, MyIlmiah is an effective and user-friendly digital management solution for tuition centres that can be enhanced in the future by adding new features such as performance tracking, mobile app support, and attendance tracker capabilities.