TASFAH STUDENT MANAGEMENT SYSTEM

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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JUDUL: TASFAH STUDENT MANAGEMENT SYSTEM

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TASFAH STUDENT MANAGEMENT SYSTEM

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This report is submitted in partial fulfillment of the requirement for the Bachelor of Computer Science (Database Management)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2011

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I hereby declare that this project report entitled

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is written by me and is my own effort and that no part has been plagiarized without citations.

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DEDICATION

Specially dedicated to my beloved mother, father, and my siblings,

Also thanks to my supervisor, En Amir bin Syarifuddin,
(UTEM)

And lastly to my beloved friends and who have encouraged, guided and inspired me throughout my journey in education.

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ABSTRACT

Tasfah Student Management System is a menu based system used at Tasfah Kindergarten. This system is developed due to the complexity of the kindergarten. This system will help admin to use the computerize system rather than use the manual system. Tasfah Student Management System contains several modules which are staff information, registration for students, class schedule, fee payment and examination result. The problem arises when the kindergarten is managed manually and the staffs need a lot of time to seek needed information because of the filling system. So, with computerized system, the staff will be able to manage student's data efficiently and lessen the time taken to access data.

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ABSTRAK

Tasfah Student Management System yang akan dibangunkan ini adalah rentetan daripada tadika yang semakin hari semakin kompleks dengan penambahan maklumat pelajarnya. Sistem ini akan membantu pentadbir menggunakan system berkomputer untuk menggantikan system manual sebelum ini manual sebelum inin. TSMS terdiri daripada beberapa modul iaitu maklumat kakitangan tadika, pendaftaran pelajar, jadual kelas, maklumat bayaran yuran dan keputusan peperiksaan. Antara masalah yang dihadapi oleh pihak tadika pada waktu ini adalah pengurusannya secara manual dan ianya menyukarkan pentadbir untuk menguruskan data. Pentadbir akan mengambil masa yang agak lama untuk mencari data yang dikehendaki. Oleh yang demikian, sistem ini dibangun bertujuan untuk menggantikan pengurusan yang manual kepada pengurusan komputer dan akan mempunyai pangkalan data sendiri. Selain daripada itu, sistem yang dibangunkan ini dapat mengurangkan masa pentadbir untuk mencapai data. Diharapkan dengan adanya sistem ini, pengurusan tadika akan lebih efisyen dan memberi kesenangan kepada pentadbir.

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CHAPTER 1

INTRODUCTION

1.1 Project Background

System that will be developed is Tasfah Student Management System. The organization is the staff of Tasfah which is located at Kuala Sungai Baru, Melaka. Usually, most kindergarten in Malayasia used traditional filling system to keep all record. There is no computerized system being develop yet purposely for kindergarten. This new computerized kindergarten management system is a menu-based system which is a user-friendly application. It can be easily learnt and used by any different kind of users.

A menu-based system is proposed to record all data as it is more effective and systematic than the manual system to keep the records. It is also for faster retrieval of data and many records can be stored for unlimited time. The system that is to be developed is due to the complexity of the kindergarten. This system will help user to use the computerized system rather than use the manual system before this. This management system contains several modules which are staff information, student's registration, schedule class, fees payment and examination.

Finally, this new system is set up to help the kindergarten management to manage the entire task at each functional unit systematically and productively. Besides, it will handle the operation effectively and efficiently all over time.

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1.2 Problem Statements

There are three problem found from the current kindergarten management:

a. Availability

The filling system which is done manually increased the time for checking the data. It also affect the efficiency during manage the kindergarten. So, with the computerized system, the staff will be able to manage kindergarten with her fingertips and helps in time management.

b. Reliability and Security

Security is very important for every database. Unsecured database can cause the data to be hacked or missing. This can caused the company unable to maintain their data information from losing or being change by unauthorized user.

c. Backup and Recovery

Backup and recovery procedures are important to keep track the data from being losing if any system or hardware failure suddenly happens.

1.3 Objectives

The objectives of the system are to:

a. To replace current manual system, filing-based, with a computerized system and database.

b. To make sure the privileges to access certain data in the database is authenticated to the specified user only.

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c. To aid in doing backup and recovery for the system to ensure the availability of the data at any time and can be restored if the event of system crash to happen.

d. To lessen the time taken for the user to access and retrieve data.

1.4 Scope

The scopes of the system are user and system scope:

i. User Scope

a. Administrator

Has privilege to access and manipulate data for staff and student.

b. Staff

Have privilege to access and manipulate all data about student and inventory.

ii. System Scope

a. Student Management

This module ensures the staff to manage student information, examination, fee payment and class through this system.

b. Staff module

This module ensures the administrator easily to manage staff information.

c. Backup and recovery module

This module ensures data in the several databases have backup and recovery module if database failure suddenly happen because of catastrophic.

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1.5 Project Significant

1. Kindergarten management system with menu-based application ensures the communication between staff and student can be done through the computerized way. This makes the data easy to access and manageable.
2. Right design for database can increase the management efficiency. Wrong design can make the management upside down.
3. Administrator and staff can access, view and manipulate all then data and make sure it will be always updated.

1.6 Expected Output

This system is expected to help the user to use and manage the student information for this kindergarten easily. The system will provide users to access and retrieve data that necessary. It will give many advantages for users and to get ease of use and manage the data efficiently.

1.7 Conclusion

This Tasfah Student Management System will give many benefits to kindergarten's organization which keep safely all data in the system. The menu based application system that will develop support Database Management System (DBMS) during managing kindergarten data. This is to ensure the user can easily reach and manage the data. The next activities during development of this system are on literature review and project methodology.

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CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

This literature review focusing about system study and project methodology to use for developed this system.

2.1 Introduction

A literature review is a body of text that aims to review the critical points of current knowledge on a particular topic. The collection used as references to gain information during the research conducted. This literature reviews discuss about the information gathered by reading journals and websites. It explains several important terms being used in developing Tasfah Student Management System. While project methodology is method or technique used to complete this project.

2.2 Facts and Findings

Most students in Malaysia have student management system. But not at all school has full computerized system in managing the program. Most of school use manual system in handling student management. Few researched had been made on the student management system that being used by several schools in Malaysia. This section will describe about the domain related with the system and brief explanation.

2.2.1 Domain

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The domain that is related to TSMS is student management for Tasfah kindergarten. It aimed to develop a systematic menu-based management system for student management. The user will use TSMS to manage the staff and student information. With the system, user can easily handle the data of each staff and student and reducing inefficiency data organization. Otherwise, all the data will be keep from an authorized user to make sure the data integrity.

2.2.2 Existing System

Existing system is one of the first tasks to find the information. In addition to that, studying the current system is important to get views about the system that is going to be developed and to identify the existing entities. Furthermore, study an existing system includes investigation about the current system. Based on the information gathered, the new system will be built.

2.2.2.1 Management System

Management system is the system that provides information for managing organization information. At the beginning, management system is use to manage organization information with the paper base that included planning, implement and controller (Alter 1996). Then, management system computer based is used to generate information for control coordination performance and to provide background information to all organization operation including business activity.

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2.2.2.2 Case Study 1

School Management System (SManS) by HeadmasterSoft is a standalone system developed in Visual Basic environment with Microsoft Access database. The system offered in 3 packages, Basic (free), Pro (purchase) and Unlimited Custom Pack (purchase).

SManS is targeted to be used by teachers in managing school's information. It covers student information management, class information management, attendance control, teacher information management and reporting. The interfaces used for this system is attractive and also user-friendly. The functions developed are useful where it has class, student and teacher's enrollment. In addition, user can also store pictures at the profile section.

However, this system is lack of function because it only store basic information about teachers and student only. There are no modules like examination, subject enrolment, fee payment and timetable. This system is also lack in terms of security because staff can control their own account and manipulate information arbitrarily.

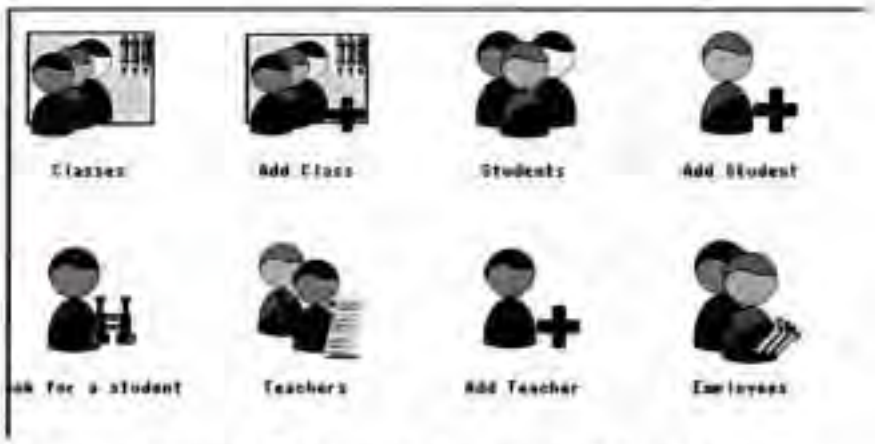

Figure 2.1 : Sample Interface of SManS

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2.2.2.3 Case Study 2

System Maklumat Murid of Sekolah Kebangsaan Chukai, Kemaman, Terengganu is a computerized student information system. This system is developed by Tuan Haji Mohd Yusof bin Muda when he becomes headmaster of the school in 2000.

Nowadays, manual school management tent to move to computerized system because student information are not been key in so many time for each transaction. Furthermore, searching can be faster. It makes school management more efficient and dynamic.

This system is capable to update student information. Besides that, this system facilitates student daily attendance and will be send warning letter if student are absent more than three day via third party system which is Sistem Merit Demerit.

However, this system is not appropriate for kindergarten because no attendance are needed in the school as it depend to other system such as Demerit and Laporan Adab Belajar to produce report or warning letter.

Figure 2.2 : Home Page of Sistem Maklumat Murid

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