

KINDERGARTEN MANAGEMENT SYSTEM

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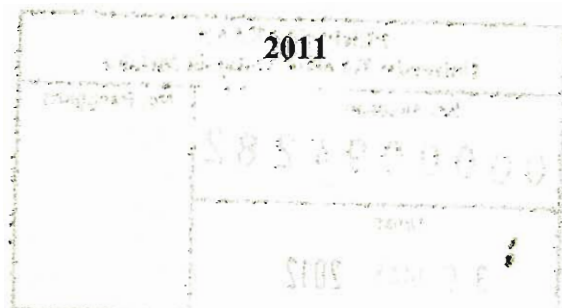
KINDERGARTEN MANAGEMENT SYSTEM

NURUL ASYURA BT SADIRAN

**This report is submitted in partial fulfillment of the requirement for the Bachelor of
Computer Science (Software Development)**

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

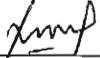
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DECLARATION

I hereby declare that this project report entitled
KINDERGARTEN MANAGEMENT SYSTEM
(E-KINDERGARTEN)

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

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DEDICATION

To my beloved parent, family, friends, lecturers and supervisor who have give full support and inspiration until this project is successfully completed...

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On this opportunity, I would like to disclose thank you for my Projek Sarjana Muda (PSM) supervisor, Mrs. Syuria bt. Amirrudin who have helped and guided me throughout the progress of my project.

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ABSTRACT

Kindergarten Management System (E-Kindergarten) is a system that will help the management to manage the kindergarten easily. This system will be use by the main branch of kindergarten and its branches. The user of this system will be divided into two which are administrator and users. The main branch will be the administrator and its branches will be the users. The administrator and users must log into the system before use the system. Only administrator can register the users of the system. The administrator will register all branches that they have as users of the system. This system contains several functions which are user registration, kid registration, kid attendance, kid fees calculation, profit report and announcement. Administrator can access all the function of this system, whereas the users only can access function of kid registration, kid attendance, kid fees calculation and announcement. E-Kindergarten will be developing using Systems Development Life Cycle (SDLC) methodology and the model that will be used is Waterfall Model. Each process during the development of this system will follow by each phase of this methodology model. This system is going to be developing using PHP programming language and the database will be MySQL.

ABSTRAK

Kindergarten Management System (E-Kindergarten) adalah sistem yang akan membantu pihak pengurusan untuk menguruskan taman asuhan kanak-kanak dengan mudah. Sistem ini akan digunakan oleh cawangan utama taman asuhan kanak-kanak dan cawangannya. Pengguna sistem ini akan dibahagi kepada dua iaitu pentadbir dan pengguna. Cawangan utama akan menjadi pentadbir dan cawangannya akan menjadi pengguna. Pentadbir dan pengguna harus *login* terlebih dahulu sebelum menggunakan sistem. Hanya pentadbir yang boleh mendaftarkan pengguna sistem ini. Pentadbir akan mendaftarkan semua cawangan yang mereka miliki sebagai pengguna sistem. Sistem ini mengandungi beberapa fungsi iaitu pendaftaran pengguna, pendaftaran kanak-kanak, kehadiran kanak-kanak, pengiraan yuran kanak-kanak, laporan keuntungan dan pengumuman. Pentadbir boleh mengakses semua fungsi ini, manakala pengguna hanya boleh mengakses fungsi pendaftaran kanak-kanak, kehadiran kanak-kanak, pengiraan yuran kanak-kanak dan pengumuman. *E-Kindergarten* akan menggunakan *Systems Development Life Cycle (SDLC)* sebagai metodologi dan model yang digunakan adalah *Waterfall Model*. Setiap proses sepanjang pembangunan sistem ini akan mengikut setiap fasa dari model ini. Sistem ini dibangunkan menggunakan bahasa pengaturcaraan PHP dan MySQL sebagai pangkalan data.

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CHAPTER I

INTRODUCTION

1.1 Project Background

Kindergarten Management System (e-kindergarten) will be applying in Tadika Arifmurni and their branch which are located around state of Malacca. So far, they already have 3 branches to be managed.

E-kindergarten is a system that will help user to manage information for the kindergarten that has several branches. Each branch of kindergarten will use this system to store kids and parent information, kid's attendance and also calculate the fees. The manager of the each kindergarten will take the attendance of the kids and store it to the system every day. Barcode reader will be use to record the attendance easily. From this attendance, management will know fees that parent need to pay. It will calculate according to number of days kid attends to the kindergarten. The main branch will monitor progress for each branch. They can view kids and parent information and profit for every month.

This system is develop to easier management manage progress of the kindergarten for each branch. By using this system, the main branch will easy to monitor the entire branch. Each branch also will easy to control kid's information. Using this system also will avoid loss data or data redundant. It also easier staff to keep track kid's information when needed. This system also will help manager to calculate fees for each kid. Before using this system, manager has to calculate themselves manually. Besides, it always has data conflict between main branch and its branches about kids and parent information. Using file system also requires more space to store all the data where the number of kid increases.

1.2 Problem statement(s)

There are some problem faced by the management while manage their kindergarten. Without using any system, they have to manage the entire branch of kindergarten and also the kids. Therefore, it was difficult to be managed with the increasing of branch and kids. The management also faced some difficulties when they want to find information for certain kids. They have to find the information manually and open all files and folders until they find the right one. It will take a long time to get the information and it just wastes the time. Besides, with the number of branch and kids that increasing, sometimes conflict of information will occur between the main branch and its branches. There is also having the redundant data of kid's information. Stored all information manually also less secure while it may be seen by unauthorized people. Besides that, management also got problem while the want to calculate the fees of the kids. They have to calculate it according to the kid's age and number of days they attend to kindergarten. It will increase the probability of error occurs when they do the calculation.

1.3 Objective

The objectives of this system will be:

- To easier main branch to monitor progress of its branches.
 - Before this management faced difficulties to monitor their entire branches manually. With this system, they can easily monitor their branches and get update from them.

- To easier manager of kindergarten in each branch to manage their kids.
 - Manager for each branch also difficult to manage all kids in their kindergarten. This system will help them manage kid's registration and kid's attendance, so it will be properly managed.

- To easier manager of kindergarten in each branch to calculate fees.
 - Without use any system, the management have to calculate fees for kids manually. It can sometimes be a risk when making a calculation error. With this system, it will reduce the risk of calculation errors occur where it will help the management to do the calculation.

- To easier management to keep track kid's information.
 - When there is a problem on the kid and the management need to find information about that kid, it will take a long time to get that information because they have to check on every file that they have. By using this system, they will get the desired information in a way that is easier and faster.

- To make sure there is no redundant of kids information.
 - Before the system exists, there has been duplication of data is stored as the way that management does not systematically. Also sometimes, there will be conflict of data that stored between main branch and its branches. This system will prevent this problem from occurring in future.

- To make the information more secure. Only authorized user can retrieve it.
 - Before this, all the information only stored in a file which is less secure. The information might be lost or may be seen by unauthorized people. With this system, the information is more secure as only the authorized user can reach it.

1.4 Scope

- Target user
 - This system will be used by the management of the kindergarten. The main branch will act as an administrator while its branches will be the user. The administrator can view the system as a whole while the user only can retrieve kid's information module, kid's attendance module, announcement module and fees calculation module.
- Module
 - Login module
 - To let administrator and users enter to the system.
 - User's information module
 - To let administrator manage their users.
 - Kid's information module
 - To let administrator and users manage kids of the kindergarten.
 - Kid's attendance module
 - To let administrator and users store number of kids attending to the kindergarten.
 - Fees calculation module
 - To let administrator and users calculate kid's fees for every month.
 - Profit report module
 - To let administrator view the profit of the kindergarten.

- Announcement module
 - o To let administrator make an announcement to all user.
- Software requirement
 - This system will be use Microsoft Windows 7 as a platform for operating system.
 - It also will use PHP as a programming language, MySql as a database and Apache as web server.
- Hardware requirement
 - A set of personal computer or laptop
 - Barcode reader
- Network requirement
 - Internet connection

1.5 Project significance

This system will be useful to the management of the kindergarten either for the main branch or its branches. With this system, the main branch can easily monitor all progress of their branches. This system also will help them to manage the registration of kids in kindergarten and the data will more secure while it will be store in the system. Moreover, it will be easy to retrieve the data back when needed.

Furthermore, this system will facilitate the management in order to calculate the amount of fees payable by parents for each kid. They only have to enter the birth certificate number of the kid, and the system will automatically calculate the amount of fees to be paid by parents.

1.6 Expected Output

E-Kindergarten is expected to overcome the problem faced by the management of the kindergarten. The system should be able to manage the registration, attendance and the fees of the kids for the entire branch. The modules generally are able to apply the basic functions such as view, insert, delete and update data.

Besides, this system also expected to reduce the time consuming for managing the entire process for the kindergarten. With this, the management will take a few times only to manage all process of the kindergarten. The information needed also can be retrieve just in seconds rather than retrieve the information by using filing system.

Lastly, the system should have a strict privilege to the users in order to increase the security. It is important to avoid unauthorized people from retrieve all the information in the system. With this, all the information will be more secure.

1.7 Conclusion

E-Kindergarten is a system that can help management to manage the kindergarten. It will solve the problems faced by them while using the manual system. This system will save time and reduce energy use in the management of the kindergarten.

The identification of this chapter will be use as a guide to develop the next chapter which is Literature Review and Project Methodology.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

This chapter will discuss about literature review and project methodology of the system to be developed which is E-Kindergarten. It will consist of four main parts which are Facts and Findings, Project Methodology, Project Requirements and Project Schedule and Milestones.

Facts and Findings part will describe about findings gather from some research about the system to be developed. In Project Methodology part, it will tell regard to the approach or methodology will be use in the system. Next, Project Requirements will discuss about the entire necessary requirement during the development of this system. Lastly, the Project Schedule and Milestones will describe about all activities will be conducted during the development of this system. All this topic will be explain in details in the next subtopic.

2.2 Facts and findings

2.2.1 Domain

Domain of this system is in a field of management. This system is categorized in management field because it concern in how to manage the increasing of kids that register to the kindergarten and also the attendance of the kids. In order to enhance their service, Information Communication and Technology (ICT) application will be used to make the management of this system effective and systematic. This system will be the web-based system application

2.2.2 Existing System

The current existing system use by the kindergarten is filing system. There is no computerized system has been implemented yet. A paper form will be use to register new kids. The paper form then will be stored in a file and will be keeping in a certain place. The same thing also is done to record the attendance of kids. The weakness that can be tracked is the data are insecure because the papers may easily damage. Besides, there are no backup and recovery. Filling system is totally no compatible anymore to handle the records in management.

In this research, a few case studies of existing computerized system from internet have been analyzed. The examples could give some ideas in implementing the proposed system.

2.2.2.1 Sistem eTabika

Figure 2.1: Sistem eTabika



Sistem eTabika is a data storage system that created as a data storage instrument accurate, fast, effective, easily stored and systematically. This system only can be access by the authorized user. The persons who can access this system are the headquarters of KEMAS Malaysia, director of state KEMAS, assistant director of state KEMAS, officer of district KEMAS, preschool supervisor and developer community which is the teacher of TABIKA.

This system consists about class registration, buildings, children, developer community, committees and other requirement. eTabika is a web based application which can be access using the internet connection. This system has been developed using ASP programming language.

(Source of: <http://unitprasekolah.webs.com/Bab2-%20e%20tabika.pdf>)