

BORANG PENGESAHAN STATUS TESIS *

JUDUL: MALACCA DRIVING SCHOOL MANAGEMENT SYSTEM

SESI PENGAJIAN: 2008

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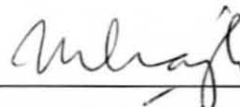
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MALACCA DRIVING SCHOOL MANAGEMENT SYSTEM

SITI HAJAR BINTI ZAINAL

**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
2008**

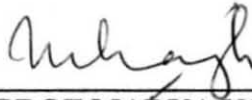
DECLARATION

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

A special dedication goes to my beloved parents En. Zainal bin Daud and Puan Amnah binti Mohd Nasir because giving support in completing my final year project which is entitled Malacca Driving School Management System (MDSMS).

I also would like to dedicate to the people who help and support direct or indirect in finishing my project successfully.

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A note of thanks is dedicated to the lecturers and friends in giving me some ideas, information and also for spending their valuable time and effort. Their generosity can only be expressed by me by being thankful for having such kind lecturers and friends who are supportive.

Last but not least, thanks to my beloved parents because give me support and motivation to finish this thesis and to all might have involved directly or indirectly in developing this system is much appreciated and note of thanks from me.

ABSTRACT

The Malacca Driving School Management System (MDSMS) is developed mainly for driving school to manage the operation more efficient, easily to find data, record keeping more efficient and retrieve data faster. This system will be managed by the administrator and the clerk of the driving school company. The methodology of this system is Database Life Cycle (DBLC). An analysis study has been done based on the current manual system and all the problems statements and requirements have been identified. Moreover, interface MDSMS have been designed according to the requirement and need of the company. Only the administrator and the authorized staff only can access this system. This Malacca Driving School Management System will help to improve the performance of current situation and overcome the problems that arise nowadays.

ABSTRAK

Malacca Driving School Management System (MDSMS) dibangunkan khasnya untuk sekolah memandu untuk menguruskan operasi mereka dengan lebih teratur, mudah untuk mencari data, menyimpan data dengan lebih teratur dan data dapat dicapai dengan lebih cepat. Sistem ini akan diuruskan oleh pentadbir dan kerani syarikat sekolah memandu. *Database Life Cycle (DBLC)* telah dipilih sebagai metodologi bagi sistem ini. Satu analisa telah dijalankan berdasarkan sistem semasa untuk mengenalpasti masalah dan keperluannya. Antaramuka MDSMS ini telah direka berdasarkan keperluan dan kehendak syarikat. Sistem ini hanya boleh diakses oleh pentadbir syarikat dan pekerja yang mendapat kebenaran. Sistem ini diharapkan dapat meningkatkan prestasi sistem semasa dan dapat menyelesaikan masalah yang ada pada masa kini.

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LIST OF ABBREVIATIONS

AJK	Ahli Jawatan Kuasa
CSS	Cascade Style Sheet
DBA	Database Administrator
DBLC	Database Life Cycle
DBMS	Database Management System
DCL	Data Control Language
DDL	Data Definition Language
DFD	Data Flow Diagram
DML	Data Manipulation Language
ERD	Entity Relationship Diagram
FK	Foreign Key
FTP	File Transfer Protocol
GUI	Graphical User Interface
IP	Internet Protocol
LAN	Local Area Network

MDSMS	Malacca Driving School Management System
NF	Normal Form
OS	Operating System
PHP	Personal Home Page
PK	Primary Key
PSM	Projek Sarjana Muda
RAM	Random Access Memory
RDBMS	Relational Database Management System
SQL	Structured Query Language
SSADM	Structured Systems Analysis and Design Methodology
TCP	Transmission Control Protocol
WAN	Wide Area Network

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CHAPTER 1

INTRODUCTION

1.1 Project Background

Malacca Driving School Management System is a computerized system that is developed for driving school center. It manages various functions in managing and handling the driving school center. The driving school center provides the driving class for motorcycle, car, lorry, bus and others. This system is managed by a staff or admin at the center. The staff is responsible to register the new students, new staffs or instructor, calculations and payments and salary for the staffs.

The problem comes when the records of students and staffs are increasing and it is not systematic anymore to keep all the data in the file systems anymore. There are data on 5 years operation of the driving school center kept in files that fill half of the room and may be there are 5 years of data to come and all the files have to be kept. Are the companies going to enlarge its building just to add room to store all this files? And how to keep it in order and securely where only the authorized staff can access it. Furthermore, if any unexpected incident or disaster happens, is there any back up for all this important information.

So, the Malacca Driving School Management System will be developed as a solution for the entire problem. The Malacca Driving School Management System will keep all the information of the daily driving school center operation which is from the instructor's records, staff's records to payment of the staff's salary. The Malacca Driving School Management System will keep track all of the operation information securely and orderly and even with backup. It is easy for searching and retrieving data, and making changes to all stored data.

1.2 Problem Statements

As current system is a manual filing system, there are several problems that are state for the current system:

i) **Low data retrieval in searching**

Through manual filing system, the data will be kept in file according to the year or company alphabetically. This may take time to search for the information needed in time as the staff may have to look the file one by one and other related file just to search for some information. For example, if the staff wants to search the address or details of their students, he or she has to search on every file, one by one. It will take a long time.

ii) **The redundancy of data and not consistency of data.**

In a manual file system usually there are data redundancy and inconsistency. This is because the same data may be stored in various files as they are related with each other. This also causes of data anomalies and then inconsistency because the redundant data are changed in one file but not the others. For example, repetitive data might happen in a record of the students because of unsystematic data management.

Such as if a student or instructors change their telephone number, the staff may change the information in one file but not the other which may also contain information, this may cause data anomalies.

iii) The lack of security

Usually for normal filing system there is lack of security as there is no limitation on who can access the files. Anyone can change the records and this may cause serious trouble in the future. For example, intruders can easily steal the important information about the instructor's details or even a staff that may not have the authority on the instructor's information may steal the information and sell it to other person.

iv) No backup and recovery for the data

Manual files system has no backup and if the file of all the information lost or damage, the driving school center will lost all it's valuable information. For example, the most important data of the driving school's center is the details of the students, staffs and history's information, if that data lost, the driving school center will face a bad impact where they may lose their important information for a future analysis.

1.3 Objective

i) To make faster data processing and accessing

To be fast in data processing and accessing by using query and index are required. This is because query and index will help to improve data retrieval and performance speed. For the solution primary and foreign key are created each time to retrieve the data from database.

For example, the details of the students should be easily retrieved by the staff for making a payment or for updating the record.

ii) To implement the data integrity

Data integrity enforced through for the proper use of primary and foreign key rule. The primary key will help to avoid data redundancy and inconsistency. So, there would not be a redundant data while using the system for searching or adding a new data. For an example, in Malacca Driving School Management System, every student and instructors will have their own records using computerized system. So, there would not be redundancy data especially in instructor's timetable.

iii) To avoid the system from being access by unauthorized person

Data stored in the driving school's center database must be protected from being access by unauthorized users. In this system, users are provided with password that allows the assignment of access rights to specific authorized users. Password usually enforced at logon time.

iv) To make data backup and recovery of the data

Data backup and recovery create a safety values, allowing the database administrator to ensure the availability of consistent data. The system will used the centralized database and will make easy to backup the data. For example, all the information of the center, students and staffs will be back up in the external hard disc. So, if the database corrupts, we still can use the database in the external hard disc.