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JUDUL : STUDENT e-OUTING SYSTEM

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STUDENT e-OUTING SYSTEM

SITI KHOLIJAH BINTI NASARUDDIN

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

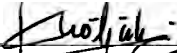
**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
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DEDICATION

To my God, Allah S.W.T.

To my greatest idol, Rasulullah S.A.W.

Specially dedicated to

My beloved parents, Nasaruddin Haji Sulaiman and Halimahton Abdul Karim

My supervisor, Mrs. Azlianor Abdul Aziz, friends who have encourage, guided, helped
and inspired me throughout the journey of success.

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ABSTRACT

The project that develops is '*Student e-Outing System*' which is a web based application system. This system is develops and will apply in any primary or secondary boarding school. The project aims is to help administrative staffs in record the outing of the student which want to go out from the hostel in every week. The system also provides a database to store all the useful information. The project is taken up with the intention to improve manual system application to computerized system. Nowadays, there is lack of the functionality to help staff to store the student's information that goes outing in every week. The other problems identified include wastage of space storage to keep the data by paper, time consuming and inefficient in store the student's information. So, this project is develop to solve these problems with enhance the existing system functionality.

ABSTRAK

Projek yang dibangunkan adalah '*Student e-Outing System*' iaitu sebuah aplikasi sistem yang berorientasikan web. Sistem ini dibangunkan untuk sekolah rendah atau sekolah menengah berasrama. Projek ini bertujuan untuk membantu pihak pentadbiran dalam merekod pergerakan pelajar asrama yang ingin keluar masuk dari asrama pada setiap minggu. Ia akan menyediakan satu pangkalan data yang mampu menyimpan ke semua maklumat penting. Projek ini juga bertujuan untuk menukar sistem manual yang digunakan kini kepada sistem berkomputer. Pada masa kini, sistem yang digunakan tidak cukup efisien bagi pihak pentadbiran dalam menyimpan rekod maklumat pelajar yang keluar masuk ke asrama pada setiap minggu. Masalah lain yang dapat dikenalpasti adalah pembaziran ruangan simpanan untuk menyimpan kertas-kertas yang mengandungi maklumat penting, pembaziran masa dan penyimpanan rekod maklumat pelajar yang kurang efektif. Oleh itu, projek ini dibangunkan untuk mengatasi masalah-masalah tersebut dengan meningkatkan kefungsi sistem yang sedia ada.

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LIST OF ABBREVIATIONS

| ABBREVIATION | MEANING |
|---------------------|---------------------------------------|
| PSM | Projek Sarjana Muda |
| SeS | Student e-Outing System |
| SDLC | Software Development Life Cycle |
| PHP | Hypertext Preprocessor |
| WYSIWYG | What You See Is What You Get |
| RDBMS | Relational Database Management System |
| SQL | Structured Query Language |
| PC | Personal Computer |
| FOE | Flow of Event |
| LAN | Local Area Network |
| GUI | Graphical User Interface |
| CSCI | Computer Software Configuration Item |
| ERD | Entity Relationship Diagram |
| SDE | Software Development Environment |
| SCM | Software Configuration Management |
| UAT | User Acceptance Test |

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CHAPTER I

INTRODUCTION

1.1 Project Background

The project to be developed is a web-based application system which called Student e-Outing System and it will apply in any primary and secondary boarding school. The purpose of this system is to help the school's staff (security management) and administrator management to manage the outing record and outing information of student.

By developing this system, it will ease the administrator to keep tracks the student's outing information and will ease the staff to make an outing records. For example, the administrator can view details of user information, student information, outing information and also allow generating report of student's outing information. Besides that, they can edit, update and delete user's information, student's information, and student's outing information. The administrator has responsible to register the new user and the new hostel's student. Meanwhile, the staff only manages the student's outing record. The staff also can view the student's outing record information and can view student which still did not come in back to hostel. This system also will provide a user-friendly application system and a security control to ensure the data integrity.

By using the manual system, the students need to leave their student card or 'Balik Kampung' card at the home guard. The student need to write down the name, time or date of outing and need to drop the signature in the log book before going out from hostel. The students which do not come back on expected time in or date in will black listed their name by the security management. By using the log book, the record of outing's student is not kept properly and always contains data redundancy. When the data always redundant, the outing's information difficult to keep track. Administrator management also encountered many problems during manage, searching and detecting status of students that going out from hostel every month.

Generally, this system will keep track the outing's information of the students (whether go outing or back hometown) by show the student card to the staff (security staff). The system will automatically set the time out, time in, date out and date in and expected date in each the student record process. It will ease the staff to make the student's outing record. The expected date in for 'Back Hometown Category' needs the staff to pick a date based on school holidays. When the students do not come back on the expected time and date, the student will get fine (RM5.00). The student needs to pay the fine first at the administrative office to allow them to go out from hostel at the next time. If students did not settle the fine payment, they will off limits to go out at the next time.

1.2 Problem Statement

Many of the primary and secondary boarding school do not have a computerized system in to keep student's outing information. The security staff must record and check manually the outing's information of each student. Based on manual system, students need to write down the name, time or date of outing and need to drop the signature in the log book before going out from hostel. The security staff needs to record the entire outing's information of the student for many times.

Besides that, possibility of data lost is high because all data are kept in files. This is due to the big number of hostel's student registered at the boarding school. So, it needs a system to record the entire information and store them into the database. By this way, the information can be kept safely.

Manual record system is time consuming because the students must write down the name, time or date of outing and need to drop the signature in the log book before going out from hostel. This may cause the administrator management performance to update all the files everyday. So, this manual process will consume improper time effort and is impractical.

Besides that, it is difficult way for administrator management to check, searching and detecting status of each outing's student because they need to find the information files manually.

1.3 Objectives

The objectives of Student e-Outing System are stated below:

1. To computerized the manual system used by the boarding school
There is no specific system to record the information of outing's student. All of student's information and outing's information is recorded manually. So, this system will develop to replace the manual system and to reduce data redundancy.
- ii. To manage the information of hostel's student easily
To retrieve the information of hostel's student more effectively by allowing the administrator management to view the outing information of hostel's

student in a current time or date. Besides that, the staff can keep track the record of outing's information for each student faster and accurately.

- iii. To develop a system that can accelerate the record process
The system to develop will ease the authorized user to record the data in the system. So, the information in this system is more secure.

1.4 Scopes

Student e-Outing System contains six modules that are Registration Module, Login Module, Manage Outing Information Module, Manage Outing Record Module, Status Outing's Student Module and Generate Report Module. All modules are separated based on access level of user. The target users of this system are administrator management and security management (security staff). This system is restricted; it only can be used by authorized user. Web-based system means, it will be access in anywhere only by use internet connection. There are six major modules, which are:

- i. Registration Module

The user needs to register first as a new user. The user registration is done by administrator management. After the registration submitted, the authorized user can uses this system to manage an outing's information for each student. The staff can view details, insert and update record of outing's information. Meanwhile, the administrator can view details, edit, update and deleting the existing information.

- ii. Login Module

The authorized user only can access this system. It is because this system has a security feature by using an access level. The page of administrator and staff only will access by pass their own user id and password.

iii. **Manage Outing Information Module**

This module is done by administrator user. It will provide an outing's information of student. The outing's information is referring to the record of outing's student. It also can give details collection of outing's information which obtained by the students. The outing's information is important to allow administrator to update the payment status of the certain student. The student must pay the fine first at the administrative office to ensure they can go out at the next time. The administrator will update the outing's information of student after the fine had paid.

iv. **Manage Outing Record Module**

This module is done by staff user. It will provide the process in record an outing's student. The outing's record is referring to the information of outing's student. The outing's record is important to produce the outing's information of the student. After the staff record the outing's student, an outing's record will updated by the staff before save into database. The staff will pick a date for the expected date in to ensure the student come back to hostel on expected date or time. If the students go back late to hostel, the student will get the fine (RM5.00). The fine must pay to allow that the late student to go out at the next time.

v. **Status Outing Student Module**

This module is done by staff user. It will provide information about the outing's record of student. In this module, system automatically show whose the outing's student which still did not come back at hostel.

vi. **Generate Report Module**

This module is done by administrator user only. The report performance will generate an outing's information of the student by selected the needed month, year and outing description. Besides that, the administrator can

view and print either the list of outing's information or the details of student in outing's information.

1.5 Project Significance

Student e-Outing System will provide distinct information for each student. It will provide immediate access for authorized user to record an outing's information. The data which save into the database will give the benefit to administrator in doing the administrative task. This administrator did not need to updated the outing's information everyday because data which is more reliable.

In this system, after the late student pay the fine, the administrator will updated the payment status into the database. The report performance will generate for references to an administrator in the next time. Besides that, the administrator can view either list of student or a detail of student outing's report more easily. It is can make the administrative task management become more helpful. The both of user can process and record an outing's information more efficient and flexible compare to manual system.

1.6 Expected Output

The expected output of this project is Student e-Outing System. It is consist of six modules. The six modules are Registration Module, Login Module, Manage Outing Information Module, Manage Outing Record Module, Status Outing's Student Module and Generate Report Module. The purpose of module will be specialized based on access level of each user. It will help in manages an outing's information of student. Each module will access by only an authorized user.