

ONLINE LEARNING AID SYSTEM

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ONLINE LEARNING AID SYSTEM

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

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2010

DECLARATION

I hereby declare that this project report entitled
ONLINE LEARNING AID SYSTEM


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DEDICATION

To my beloved family who always encouraging my highest hope and praising my
smallest success

KHOO SUN HONG
CHEONG SWEE YONG
KHOO YEONG JIE

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During the duration of completing PSM, many have helped me throughout my PSM and I would like to take the opportunity to thank the people who have facilitated and guided me.

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ABSTRACT

In this new era of modern world with the advancement of Information Communication Technology, teachers should take advantage to upgrade their teaching techniques. Students should be allowed to learn anytime, anywhere and at their own pace. Teachers should be able to keep a collection of exam or test questions online. Besides, teachers in school should be able to share their question online with the students in different class. So, this gives me an idea to develop an Online Learning Aid System. The system will develop using the PHP and Flex Builder 3 as the programming language. MySQL will be the database that keeps all the related information about the system. This Online Learning Aid System is a web based application hence it can be accessible through the internet anytime and use by school. Teachers and parent can monitor student's performance easily through the results or statistic graph done by the system. Email about the student result also will be send to the parent every time their children finish a question set.

ABSTRAK

Dalam era baru dunia moden dengan kemajuan Teknologi Maklumat dan Komunikasi, guru harus mengambil kesempatan ini untuk meningkatkan teknik mengajar mereka. Pelajar harus dibenarkan untuk belajar pada bila-bila masa dan dimana saja bersesuaian dengan kemampuan mereka. Guru juga boleh menyimpan koleksi peperiksaan atau ujian secara online. Selain itu, guru di sekolah juga boleh berkongsi soalan peperiksaan atau ujian mereka dengan pelajar di kelas yang berbeza secara online. Perkara ini memberikan saya idea untuk membangunkan Online Learning Aid System. Sistem ini dibangunkan dengan menggunakan PHP dan Flex Builder 3 sebagai bahasa pengaturcaraan. MySQL pula akan menjadi pangkalan data yang menyimpan semua maklumat berkaitan tentang system tersebut. Online Learning Aid System merupakan sebuah aplikasi berasaskan web yang membolehkan ia diakses melalui internet pada bila-bila saja dan digunakan oleh sekolah. Guru dan ibubapa boleh memantau prestasi pelajar melalui keputusan atau grafik statistik yang dihasilkan oleh sistem. Keputusan pelajar akan dihantar kepada ibu bapa melalui email setiap kali anak-anak mereka menyelesaikan satu set soalan.

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LIST OF ABBREVIATIONS

DBMS	-	Database Management System
DCL	-	Data Control Language
DDL	-	Data Definition Language
DFD	-	Data Flow Diagram
ERD	-	Entity Relationship Diagram
IE	-	Internet Explorer
JAD	-	Joint Application Development
MySQL	-	My Structure Query Language
OLAS	-	Online Learning Aid System
PHP	-	Hypertext Preprocessor
RAD	-	Rapid Application Development
RAM	-	Random-access Memory
RDBMS	-	Relational Database Management System
SDE	-	Software Development Environment
SDLC	-	Systems Development Life Cycle
SQL	-	Structure Query Language
WAN	-	Wide Area Network

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CHAPTER I

INTRODUCTION

1.1 Project Background

The system proposed is an online learning system used in educational industry. In recent years, online education becomes a valuable tool for an increasing number of users and it enhances the efficiency of learning. This is the reason that triggers me to start this web based system. An online learning aid system is developed to provide the PMR past year objective questions for the students.

In this system, time will be allocated for student to complete each set of question. Within the range of time, students must complete the questions. This trained student to complete their exam on time unlike the traditional way of doing question without time guard. This Online Learning Aid System is developed for the usage of secondary schools. The design of the system includes 4 main users which are students, parents, teachers and admin. The users are require to register as member before can login to perform any operation in the system.

Through the system, students can check their result of the exercise directly for multiple-choice question. The multiple-choice questions are graded automatically by the system. Report will be generated for every practice taken by the student. An email about the student result of every question set taken by the student also will be sending out to

their parent. The teachers in school are allow to upload the past year questions according to the subject for students.

1.2 Problem Statement

- i. Time consuming by marking the answer manually.
- ii. Student doing question without time guard.
- iii. Student can only do once for the past year question in the exercise books.
- iv. Parents have no time to guide her children to do exercise.
- v. Difficulty sharing the questions to those students from other class.

1.3 Objective

- i. To provide instant correction learning method.
- ii. To train students to complete a set of question on time.
- iii. To allow unlimited times of trials and practices in doing the exam question until get perfect.
- iv. To provide a report that enables the parent to review their child's performances and identifies their weakness in each subject.
- v. To provide easier method for teacher to share their questions to student.

1.4 Scope

The platform of Online Learning Aid system is internet-based that can be access by user with the connection through internet. The scope and functions of the system is categories based on four main users which are student, parent, teacher and admin.

i) Student

- a. This system will enable the student to register as member to login to the system.
- b. This system will enable the student to browse the past year exam question for certain subject.
- c. This system will enable the student to do the question sets unlimited time for each available subject.
- d. This system will enable the student to check their marks online.

ii) Parent

- a. This system will enable the parents to register as member to login to the system.
- b. This system will enable the parents to view the result and see the improvement of their child.
- c. This system will enable the parents to view the statistic bar chart generated by the system to see the average marks of their child in each subject.
- d. This system will enable the parents to receive an email about their child result send out by the system.

iii) Teacher

- a. This system will enable the teacher to register as member to login to the system.
- b. This system will enable the teacher to add subject and update grade.

- c. This system will enable the teacher to upload question sets for each subject for student.
 - d. This system will enable the teacher to update the question sets for each subject.
 - e. This system will enable the teacher to view the result of the student.
- iv) Admin
- a. This system will enable the admin to have the privilege to view all the data or record in the system.
 - b. This system will enable admin to register the teacher in school as a member of the system.
 - c. This system will enable the admin to make an analysis based on the statistic graph generated by the system.

1.5 Project Significance

The system that will develop can benefit the students who are prepares for the PMR test. Online Learning Aid System enables the registered student to do past year exam objective questions online within the time allocated. In short, this can train the student to finish the set of multiple choice questions on time. Besides, students can check the marks they get for any set of question they have done online.

Within the system, answers are corrected instantly to allow the student to learn from their mistakes. This exclusive and invaluable feature allows students to do countless examination practices thus help and condition students to be exam ready.

In the parent registration part, parents will then be able to identify their child's strength and weaknesses through the report generate by the system. The report gives parents a review of their child performances and identifies weakness, so timely