

## BORANG PENGESAHAN STATUS TESIS

JUDUL: E DRIVING LICENSE SUPPORT (e-DriLiS)

SESI PENGAJIAN: 2011/2012

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JLN PJS 5/4A  
DESA MENTARI  
46150 P.JAYA  
SELANGOR

\_\_\_\_\_  
(TANDATANGAN PENYELIA)

MDM ROSMIZA WAHIDA ABDULLAH

Tarikh: \_\_\_\_\_

Tarikh: \_\_\_\_\_

**e-DRIVING LICENSE SUPPORT (e-DriLiS)**

**SITI ADILAH BINTI AL HASSAN**

**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**

**2012**

## DECLARATION

I hereby declare that this project report entitled  
**e-Driving License Support (e-DriLiS)**

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

STUDENT : \_\_\_\_\_ Date: \_\_\_\_\_  
(SITI ADILAH BINTI AL HASSAN)

SUPERVISOR: \_\_\_\_\_ Date: \_\_\_\_\_  
(MDM, ROSMIZA WAHIDA ABDULLAH)

## **DEDICATION**

I'd like to give thanks to my parents for their encouragement and also a special thanks to Mdm. Rosmiza Wahida Abdullah for her consistent support and her generosity in sharing ideas.

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## ABSTRACT

e-Driving License Support (e-DriLiS) is develop mainly for Malacca Safety Driving Centre Sdn Bhd (MSDC) student and staff to make their management go easy and smoothly. The user wish to access to system needs to have valid id by registration. The registration will be processed by the system and save the data into database. The registered record will be managed and maintained by the staff. Staff has the authority and privileges to view, modify and edit student details and access level. All the student data can be retrieve via system. e-DriLiS allow registered student to use e-note, pre JPJ Test, event schedule and forum to make preparation to attend real JPJ Test to get driving license. The interfaces for e-DriLiS have been designed according to the requirement and needs of the current market. System Development Life Cycle (SDLC) Methodology has been used to develop the e-DriLiS and for the architecture design, three tier architecture are selected to design the architecture style for e-DriLiS. Rather than that, this system also has been tested and evaluated in real life. This e-Driving License Support will help to improve the performance of current problem facing by student and staff MSDC.

## ABSTRAK

e-Driving License Support (e-DriLiS) merupakan sistem yang direka khas untuk pengurusan Malacca Safety Driving Centre Sdn Bhd (MSDC) agar dapat mengurus data berkaitan pelajar dan kakitangan dengan lebih lancar dan teratur. Pengguna yang ingin menggunakan sistem e-DriLiS perlu mendaftar untuk memperoleh id bagi memasuki sistem. Pendaftaran akan diproses sistem dan data tersebut akan disimpan ke dalam pangkalan data. Segala data e-DriLiS akan diuruskan oleh kakitangan MSDC. Kakitangan mempunyai kuasa penuh untuk memapar, mengubah, memadam dan menghalang mana-mana pelajar dari menggunakan sistem e-DriLiS. Segala data yang berkaitan dapat dicapai setelah kakitangan berjaya memasuki sistem. Pelajar yang telah mendaftar boleh menggunakan e-nota, pra JPJ Test, calendar aktiviti dan ruangan sembang agar pelajar dapat buat persiapan secukupnya sebelum menduduki peperiksaan sebenar JPJ untuk memperolehi lesen memandu. Paparan antaramuka untuk e-DriLiS direka bentuk berdasarkan permintaan pasaran semasa. Metodologi yang digunakan untuk membangunkan e-DriLiS adalah "*System Development Life Cycle*" (SDLC) dan "*Three Tier Architecture*" telah dipilih sebagai gaya senibina untuk membangunkan e-DriLiS. Selain itu, sistem e-DriLiS juga telah diuji dan dinilai dalam situasi sebenar. Diharapkan e-DriLiS dapat membantu memperbaiki mutu kerja dan mengatasi masalah-masalah yang dialami oleh pelajar dan kakitangan MSDC.

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# CHAPTER I

## INTRODUCTION

### 1.1. Project Background

Nowadays, motor vehicles are the main transportation to get to the destination. driving licence is an official document which states that a user may operate a motorized vehicle, such as a motorcycle, car, truck or a bus, on a public roadway. The laws relating to the licensing of drivers vary between jurisdictions. In Malaysia, a license is issued after the recipient has passed a driving test.

So this system is developed to help user to get better understanding and can be used as references anytime and anywhere because this system is developed to be used as a substitute book provide by school. This system provides interactive notes to help the user to memorize and get better understanding compare to plain text book provide by school.

This system also will provide forum function as medium interaction where user can discuss with other user and instructor about some tips on how to maintain a good car condition , slope climbing, side parking techniques and 3-Point turn maneuvers where user can refer anywhere and at anytime user want. Pop quiz also provide by this system where user can try to answer the question usually similar with the actual test. So, by using this system user can study anytime and anywhere more simply and easier as preparation before to appear for JPJ test .



## **1.2. Problem Statement**

### **1.2.1. Difficult and not convenient to bring the learning guideline of *Kurikulum Pendidikan Pemandu (KPP)* provided by driving school.**

Driving school will provide text book and exercise book for each user who registered with them but nowadays it's not convenient anymore to used book.

### **1.2.2. Limited references to do the revision and make preparation.**

User only attend 6 hours theory course with 3 hours is devoted to talking on how to maintain a good car condition and the next 3 hours of the Theory class in reality is a Practical lesson conducted by Instructor. For some user 6 hours theory course is not enough to get clear understanding so they need extra references.

### **1.2.3. The learning guideline of *Kurikulum Pendidikan Pemandu (KPP)* provided by driving school unattractive.**

Note book provide by driving school full with plain text and limited diagram so user is reluctant to read the book because the book unable to attract their interest.

### **1.2.4. Users are not well prepared for JPJ test.**

Some user does not really know if their ready to take the test because they cant measuring their ability and knowledge and it will result some user failed either part of the test, so they need to re-take the exam.

### **1.3. Objective**

The main objective of this system is to provide a better way for user who want to take the driving licence to do revision and preparation anytime and anywhere. This system is develop to provide notes, tips and pop quiz test to help them before appear for JPJ test. The objectives of this system are:

#### **1.3.1. To provide student with attractive note and tips.**

Attractive note will give better understanding and easy to memorise so this system will provide notes with diagram and mind map where user can access it at any convenient time and place.

#### **1.3.2. To help student do the preparation with pop-quiz test before appear for real JPJ test.**

Pop-quiz test will provide with question usually similar with the actual test so user can try to answer the question in specific time period to test their ability and knowledge also it will train the user prepare to appear for JPJ test.

#### **1.3.3. To provide medium interaction between student and instructor.**

Forum function will be provide to help user to interact wiht other user or instuctor to gain some information or sharing tips.

#### **1.3.4. To help student to book for theory class**

Student can use Event Schedule function to book theory class of computer, B2 and D.

## **1.4. Scope**

This system provides notes, tips and pop quiz test and forum before attend the real JPJ test. These features can be use by the user after register and login to the system. The scope of system will be describe as follow:

### **1.4.1. Administrator**

- i. Administrator can add,edit and delete the data of notes and test.
- ii. Administrator can add and remove user.
- iii. Administrator can post event.
- iv. Administrator can monitor and manage topic in forum discussion.

### **1.4.2. User**

- i. User can read the notes and tips.
- ii. User can discuss and change opinion by using forum function.
- iii. User can do the pop-quiz test to test their ability and knowledge.
- iv. User can view event and book for theory class.

## **1.5. Project Significance**

There are several project significance to be as a result and purposes from developing the application:

### **i. Deal about easy online registration.**

The system should help user to make registration to take driving licenses.

## **ii. E-Book Notes**

The system should provide note with diagram and mind map where user can access it at any convenient time and place.

## **1.6. Expected Output**

E- Driving Licenses Support(e-DriLiS) should provide login and registration section, view notes, try answer JPJ Test, view event, post forum thread and book for theory class.

## **1.7. Conclusion**

As the conclusion an online system will be developed that can help user to gather information by view notes, answer JPJ Test, view event, book for theory class and post forum thread. This system will help user do the preparation anytime and anywhere more simply and easier.

Hopefully by using this system, it can help the users to prepare themselves before they take the real JPJ Test and also give benefits to all parties that involve in this project.

## CHAPTER II

### LITERATURE REVIEW AND PROJECT METHODOLOGY

#### 2.1 Introduction

This chapter will discuss about the analysis and existing or similar system that is related to the project. Literature review will focus on the research of the existing and future system. Literature review is a process of searching, collecting, and drawing conclusion from all issue rose in relevant body of literature. It describes all the analysis and findings which are related research, case study and other findings that are related to this project. In addition, it also consist the knowledge of the project elements such as domain specification, techniques and how these elements related and combined to each other.

Methodology is the key of succeeding in finishing a project within time and being able to satisfy user's requirements. It is also a description of the selected approach that will be used when developing the project. Every step in the selected methodology will be justified to suit every task. Since there are many kind of methodology, it is vital to select appropriate methodology that will be used in project.

In developing web application, literature study is an important part to make sure that the web application that is developed will achieve the target and objectives. There are some research that has been studied before develop this web application. There are a few commercial application that be used as a reference in this project.

The web does not have significant difference between each other. Also refer their information and the process involve in developing this project.

## **2.1 Facts and finding**

Fact and finding is a discovery or determination of fact or accurate information. This section conveys about the online booking system, analysis the existing system, to find out the strength and weaknesses of the system. After all the strength and weakness has been analysis, it will then been applied to the system and the failure and weaknesses will then been improved.

For E-Driving Licenses Support, fact and findings is an important component of the literature review. It contain domain of the project, the existing system and the technique that used in the proposed system. The facts finding is based on topic which is Driving Licenses.

### **2.2.1 Domain**

Introducing online driving license system to user requires attention from all users. It requires full understanding on the uses of online booking system, to gain satisfaction between user and gain website popularity between existing and new user.

Reality, driving license institution in Malaysia are tending to spend time treating customer phone call or dealing straight to the customer. User need to go nearest driving institution to get information or register and attend class to get the driving license. An additional, event though the institution has an online system, still the management may face difficulty in dealing with user and the functionality of the system not fully used by the management. Here, E-Driving License Support should be implement to improve the management of driving license institution and user can access it at any convenient time and place.

## 2.2.2 Existing System

For this part, the research before develop project are very important. In this project, the case study is the main of method of research that related with this project. Investigation and analysis for present system is necessary to identify problem and constraint will exist in stated system. It aim to investigate functions used to be given by developer system. This web system development is based on the study of the interface, security, information and the other part. The example of the existing system can be viewed according to this website:

### 2.2.2.1 <http://cangiran.blogspot.com/p/home.html>

This website provide information about their institution, package and price provide, application form for registration and standard question and answers. Cangiran Driving License website is one way for user get brief information about driving license and driving instituion.

**INSTITUT MEMANDU CANGIRAN**  
www.cangiran.blogspot.com  
Driving License Program

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Pejabat Operasi dan Litar Latihan:  
Lot 230, Batu 7, Jalan Matang,  
93050 Kuching, Sarawak

Nombor Telefon:  
**082-413140 (Pejabat dan Fax)  
019-838 0219 (Ms Yana)  
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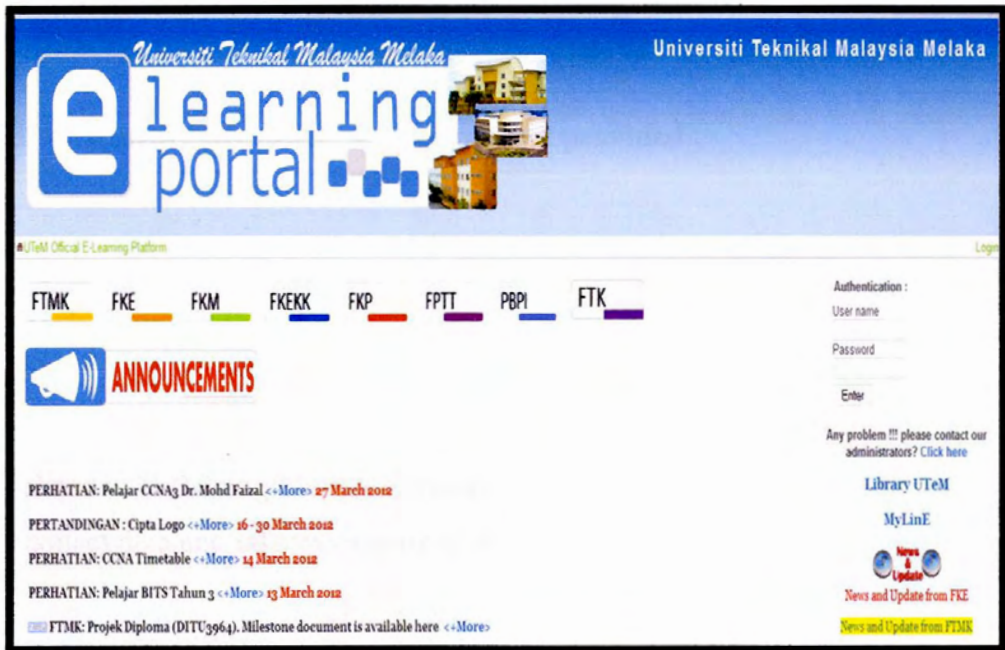
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ACTIVITIES  
ANNOUNCEMENTS  
CAREER / BUSINESS  
PROMOTIONS  
SURVEY

**PERATURAN PAKAIAN CALON**  
Lelaki: Kemas, Baju berkolar, Seluar panjang, kasut (Selipar / Sandal, Seluar Pendek, dan Topi TIDAK DIBENARKAN).

Figure 2.1: Cangiran Driving License

### 2.2.2.2 <http://ulearn.utem.edu.my/>

This website is e-learning portal that provide login session, information about course and subject, events, note and online quiz for user. User need valid userID and password to enter this system. It only can be used by student and staff of Universiti Teknikal Malaysia Melaka.



**Figure 2.2: UteM e-Learning Portal**

### 2.2.2.3 Differences with Existing System and Developed System

Each system has produced certain differences. The difference is produced to identify the strengths and weaknesses of existing systems with systems that want to develop. Here is the difference between the existing and the develop system.

After analyze all three system, the result is there are some minus in every system. Even though it not much affects and due to major problem but if it overcame the process can be done very effectively. Thus as a solution, best feature are sort list to be include in E-Driving License Support.