

E-STICKER & SUMMON SYSTEM

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DEDICATION

To my beloved mother, Puan Che' Yah binti Md Isa, my precious supervisor, Miss Nor Haslinda binti Ismail, lecturers, my friends and all 3 BITS students for giving assistant to complete this project successfully.

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ABSTRACT

Efficient and effective management in organization very important to achieved organization goal. A good organization is in the event managed. System that was developed is E-Sticker & Summon System. E-Sticker & Summon System was a system developed based on web applications used by staffs, students and contractors. Main objectives is to make convenient and faster registration wherever access through online, to give notification to the user (student/staff/ contractor) to inform sticker status and summon and lastly to create an effective online vehicles registration and summon system. E-Sticker & Summon System have nine modules which are module login, registration, vehicle registration, sticker renewal, summon, report, notification, complaints/suggestion and administration. The development of this project used the V-shape Model methodology, Adobe Dreamweaver CS3 as software, PHP as the programming language whereas MySQL is for the database management system. This system developed by using SSDAM methodology. Overall, this system can help and facilitate management through more orderly manner.

ABSTRAK

Pengurusan yang cekap dan berkesan dalam sesebuah organisasi adalah sangat penting bagi mencapai matlamat organisasi. Pengurusan yang baik menunjukkan organisasi itu berada dalam keadaan terurus. Sistem yang dibangunkan adalah '*E-Sticker & Summon System*'. '*E-Sticker & Summon System*' adalah satu sistem yang dibangunkan berasaskan aplikasi web yang digunakan oleh staff, pelajar dan kontraktor. Objektif-objektif utama untuk dalam membangunkan '*E-Sticker & Summon System*' ialah antaranya untuk memudahkan dan mempercepatkan urusan pendaftaran bila-bila masa sahaja melalui akses secara atas talian, untuk memberikan makluman kepada pengguna (staff, pelajar dan kontraktor) bagi memaklumkan status pelekat dan saman serta bertujuan untuk mencipta sistem pendaftaran kenderaan dan saman secara atas talian. '*E-Sticker & Summon System*' mempunyai sembilan (9) modul iaitu log masuk, pendaftaran, pendaftaran kenderaan, pembaharuan pelekat, saman, laporan, pemberitahuan, aduan/cadangan dan pentadbiran. Bagi proses pembangunan, sistem ini menggunakan kaedah Model V-Shape, Adobe Dreamweaver CS3 sebagai perisian, PHP sebagai bahasa pengaturcaraan manakala MySQL adalah bagi sistem pengurusan pangkalan data. Sistem ini dibangunkan dengan menggunakan metodologi SSDAM. Secara keseluruhannya, sistem ini dapat membantu dan memudahkan pengurusan secara lebih teratur.

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LIST OF ABBREVIATIONS

ABBREVIATION	WORD/DESCRIPTION
DDL	Data Definition Language
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
FR	Functional Requirement
GUI	Graphical User Interface
HTTP	Hypertext Transfer Protocol
LAN	Local Area Network
MySQL	Structured Query Language
NFR	Non-Functional Requirement
PC	Personal Computer
PHP	Pre-Hypertext Preprocessor
PK	Primary Key
RAM	Random Access Memory
SDLC	System Development Life Cycle
SSDAM	Structures System Analysis and Design Methodology
UTeM	Universiti Teknikal Malaysia Melaka
UTP	Unshielded Twisted Pair

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CHAPTER I

INTRODUCTION

1.1 Project Background

Universiti Teknikal Malaysia Melaka (UTeM) was formerly known as Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM) and was established on 1 December 2000. After the re-branding of KUTKM it is now known as UTeM commencing 1 February 2007. There are seven faculties in UTeM such as Faculty of Electronic and Computer Engineering, Faculty of Mechanical Engineering, Faculty of Manufacturing Engineering, Faculty of technology Management and Technopreneurshihp, Centre for Languages and Human Development and Faculty of Information and Communication Technology.

UTeM has vehicle registration service for the staffs and students. By register their vehicle, they will get a UTeM sticker as an acknowledgement of the vehicle is belongs to a person in UTeM community. However, there are several problems, which are related to its service in registration process. Although the system registration is a simple procedure but it takes long time to complete one registration process. Thus, i would like to introduce E-Sticker & Summon system that allows user to register vehicle wherever they are by accessing through online faster and effectively. User also can check summons. E-Sticker & Summon system also a system which is easy to update.

1.2 Problem Statements

There are few problems or can be said weakness identified in the current manual notification system for student, staffs and contractors of UTeM. The problem that identified listed as follows:

(a) Lack of information

Students, staffs or contractors may not know the documents that they should bring along to register their vehicle. For example: Documents that required such as a copy of identity card, vehicle license and matric card. If one of the required documents not submitted the registration might be postpone till all document complete.

(b) Waste of time

If more people queue up to register at one time at the security office, there might be take time to response each one of them to settle the registration. Students, staffs or contractors may have to attend classes or any other important task while waiting for their turn.

(c) Late response from the security officers

After the registration complete, students, staffs or contractors have to get their sticker which have applied. There are some complaints that the officers are not around or busy with their work when we go to the office. More applications and tasks in order to complete the procedure might slower the process to be done due to the approach of manual method.

(d) Information not updated

Old system is not regularly update because registered manually. By using E-Sticker & Summon system, the officers may easily update the information faster by just search the applicant id. Besides, no need paper resources to fill up the information. Low cost because less paper usage. The officers just need to change if any changes in the E-Sticker & Summon system database.

1.3 Objectives

The main objectives of our E-Sticker & Summon system to solve the weakness of the current system as follows:

(a) To make convenient and faster registration wherever access through online

Students, staffs or contractors no need to queue up in the security office to get the manual form as well. They can access through online wherever they are. The registration can be complete by following steps in few minutes.

(b) To give notification to the user (student/staff/contractor) to inform sticker status and summon.

Students, staffs or contractors no need to refer many time to office, just have to wait till the notification from the officers. After get the notification, they may proceed to get the sticker and can pay summon at office. Save time and energy as well.

(c) To create an effective online vehicles registration and summon system

The security officers can update the user's details if necessary through E-Sticker & Summon system and no need manual paper that need to keep piles of files as recovery file. Just keep the details into the E-Sticker & Summon system database that is always updated if have changes.

1.4 Scopes

Our system will focus primarily on vehicle registration, summon, verification and notification system for UTeM community. Target user divided into four groups:

1.4.1 Target user

- a) Admin
- b) Student
- c) Staff
- d) Contractor

1.4.2 Modules

The application of E-Sticker & Summon system divided into nine (9) modules:

- a) Login**
Login section will be including three users: admin, student, staff and contractor. Each user will login using their id and password into the system as well.
- b) Registration**
New users have to register at registration page before use E-Sticker & Summon system.
- c) Vehicle Registration**
In this section, user has to register vehicle to apply the sticker.

d) Sticker renewal

The sticker valid just for a year and the applicant need to renew the sticker every year.

e) Summon

In this section, user can check whether they got summon or not.

f) Report

Can be viewed by the admin in order to make notice of all process done. Example: the admin could take note that all the summons that have been paid or not.

g) Notification

In this section, the approved application will be processed and the data will be kept into database. Then, a notification by mail and phone will be sent to applicant.

h) Complaints/suggestion

Whoever intend to suggest or make complaint regarding any inconvenient provide by the system could do so.

i) Administration

Admin as usual will keep all user details. Admin manages the E-Sticker & Summon system and database of the system.