Universiti Teknologi MARA

Online Traffic Offence System (OnTOS)

BY
SYAHIDA BINTI SANI

THESIS SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS FOR

BACHELOR OF SCIENCE (HONS) INFORMATION TECHNOLOGY
FACULTY OF INFORMATION TECHNOLOGY AND QUANTITATIVE SCIENCE

APRIL 2007
DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline

APRIL, 2007

SYAHIDA BINTI SANI
2005619563
TABLE OF CONTENTS

CONTENT PAGE
APPROVAL ii
DECLARATION iii
ACKNOWLEDGEMENT iv
TABLE OF CONTENTS v
LIST OF TABLES vii
LIST OF FIGURES vii
LIST OF APPENDICES vii
ABSTRACT viii

CHAPTER 1: RESEARCH OVERVIEW

1.1 Background of Project 1
1.2 Problem Statement 2
1.3 Objective of the Project 2
1.4 Scope of the Project 3
1.5 Significance of Research 3

CHAPTER 2: LITERATURE REVIEW

2.1 Introduction 4
2.2 Personal Digital Assistant (PDA) 4
   2.2.1 The Use of PDA 5
   2.2.2 The Advantages of Using PDA 7
   2.2.3 The Disadvantages of Using PDA 8
2.3 Problem in the Traditional System 9
2.4 The Use of New Technology as an Alternative Way 11
2.5 Web Technology 16
   2.5.1 Introduction 16
   2.5.2 PHP 17
   2.5.3 MySQL 18

v
CHAPTER 3: RESEARCH APPROACH AND METHODOLOGY

3.1 Introduction 21
3.2 Define Objectives and Problem Statement 23
3.3 Data Collection 23
3.3.1 Primary data 23
3.3.2 Secondary data 24
   i. Online Journals 24
   ii. Books 25
3.4 Design Analysis 25
3.5 Design of Online Traffic Offence System (OnTOS) 26
3.6 Implementation 26
3.7 Summary 26

CHAPTER 4: FINDINGS AND RESULTS

4.1 Introduction 27
4.2 The process flow of issuing student summon 28
4.3 The shorter processes to issue summon 31
4.4 Laptop (Server) and PDA (Client) 33
4.5 Use Case and Class Diagram 35
4.6 System Layout (System Interface) 38

CHAPTER 5: CONCLUSION AND RECOMMENDATION

5.1 Conclusion 41
5.2 Limitations and Constraints 42
5.3 Recommendation 42

REFERENCES

APPENDICES
Online Traffic Offence System (OnTOS) is more about parking offence on the campus as well as issuing summon for offender. This web-based system contains some general information about the Mara University of Technology (UiTM) traffic offence. The PDA is use as a communication tool between user and the system and this system can retrieve and display all information about the vehicle. The objectives for this project are to identify the problem faced by the Security Centre, to design a model by using the new technology as an alternative way to the traditional PC-based Web browser for accessing the information and to develop an online system for use at the Security Centre. There are several crucial steps needed to be addressed to ensure that the data collection process and measurement systems are stable and reliable. Incorporating these steps into a data collection plan improved the possibility that the data can be used to support the ensuing analysis. The old system of collecting data has not proven effective or efficient for security guards. In the end of research project period, all the objectives in this research project have been achieved.

(Keyword: Parking offence, PDA, Old system)