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### **BORANG PENGESAHAN STATUS TESIS**

# JUDUL: <u>LICENSING EXEMPTION CERTIFICATION SYSTEM FOR</u> ROYAL MALAYSIAN CUSTOM, JOHOR

SESI PENGAJIAN: <u>SEMESTER 2007/2008</u>

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Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

# LICENSING EXEMPTION CERTIFICATION SYSTEM FOR ROYAL MALAYSIAN CUSTOM, JOHOR

KALAIVANI A/P KANABATHY

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

FACULTY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY UNIVERSITI TEKNIKAL MALAYSIA MELAKA 2007

### ADMISSION

I hereby declare that this project report entitled

## LICENSING EXEMPTION CERTIFICATION SYSTEM

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

STUDENT	: (KALAIVANI A/P KANABATHY)	Date :_	12/11/07
SUPERVISOR (EN 1	:	Date: _	12/4/07

### **DEDICATION**

To my beloved parents, Mr.Kanabathy and Mrs.Parupathy, for their continuous inspiration and support.

To my brothers, Ramanakumar and Bharatkumar, for their unconditional love and support.

To my supervisor, Mr.Burhannudin bin Mohd Aboobaider, for making it all worthwhile.

Not to forget my lovely friends. Thank you for all supports and advices to complete this project and report.

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#### ABSTRACT

There are different types of sales tax in Malaysia for manufacturers; License Exemption Certification is a certificate that applied by companies who sale value does not exceed the threshold of RM 100,000.00 during the preceding twelve months .The purpose of this project is to implement a successful computerized online system for License Exemption Certification (LEC) department through out Johor customs. Online system is important in the organization in establishing, building, leading quality of staff and department performance. It is also generally acknowledged as a vital element in efficiency and effectiveness of custom as a large organization. The current manual and standalone system do not satisfy the management performance of the department. Therefore, Licensing Exemption Certification online system is build to substitute current system. This system assists the officer to keep customer details safely, calculate the risk level of companies in certification, graphical representation for statistical analysis and data retrieval via searching. This system will be developed using XAMPP that integrate PHP Hypertext Preprocessor (PHP), Apache server and MySQL as a database platform. Software Development Life Cycle (SDLC) methodology and spiral model are implemented as a systematic guidance in developing the system. All the requirements specification in the project resulted from the analysis on current and proposed system. The proposed system has some value added in addressing problem. The result of this system reveals that the management of the departments in Royal Malaysian Custom in Johor well organized and improves the working environment become more efficient and easier.

### ABSTRAK

Terdapat pelbagai jenis cukai di Malaysia bagi pengilang; Sijil Pengecualian Daripada Pelesenan adalah sijil yang dimohon oleh syarikat yang mempunyai nilai jualan yang tidak melebihi RM 100,000.00 dalam tempoh 12 bulan. Matlamat projek ini adalah untuk membangunkan satu sistem perkomputeran secara online untuk kegunaan bahagian cukai dalaman, Sijil Pengecualian Daripada Pelesenan kastam bagi seluruh negeri Johor. Sistem secara online penting dalam organisasi dalam mewujudkan dan meningkatkan tahap kualiti pekerja dan pelaksanan sesebuah organisasi. Sistem manual dan sistem setempat yang di aplikasikan sekarang tidak memenuhi kehendak pelaksanaan pengurusan organisasi. Oleh demikian, sistem online License Exemption Certification (LEC) dibangunkan untuk menggantikan sistem yang sedia ada. Sistem ini membantu pegawai kastam menyimpan maklumat pelanggan dengan selamat, mengira tahap risiko syarikat yang berada di bawah persijilan, perwakilan bergraf bagi analisa berstatistik dan memperolehi data melalui carian maklumat. Sistem ini dibangunkan dengan mengunakan XAMPP sebagai perkakas perisian iaitu gabungan PHP Hypertext Preprocessor (PHP), Apache server dan MySQL sebagai pangkalan data. Metodologi Kitar Hayat Pembangunan Sistem dan spiral model di implimentasikan sebagai panduan dalam membangunkan sistem secara sistematik. Semua spesifikasi keperluan sistem dalam projek adalah hasil kajian daripada analisa ke atas sistem yang sedia ada dan sistem yang bakal dibangunakan. Sistem yang bakal dibangunakan mempunyai penambahbaikan dalam menangani masalah yang wujud. Sistem online ini dapat meningkatkan tahap pengurusan dan suasana kerja Kastam Diraja Malaysia negeri Johor menjadi lebih mudah dan efisien.

# TABLE OF CONTENT

CHAPTER	SUBJECT	PAGE
	JUDUL	i
	ADMISSION	ii
	DEDICATION	iii
	ACKNOWLEDGEMENTS	iv
	ABSTRACT	v
	ABSTRAK	vi
	TABLE OF CONTENTS	vii
	LIST OF TABLES	xiii
	LIST OF FIGURES	xv
	LIST OF ABBREVIATIONS	xvii
CHAPTER I	INTRODUCTION	1
	1.1 Project Background	1
	1.2 Problem Statements	3
	1.3 Objective	4
	1.4 Scope	5
	1.5 Project Significant	7
	1.6 Expected Output	7
	1.7 Conclusion	8

CHAPTER II	LITERATURE REVIEW AND PROJECT	9
	METHODOLOGY	
	2.1 Introduction	9
	2.2 Facts and Findings	10
	2.2.1 Domain	10
	2.2.2 Existing System	11
	2.2.2.1 Licensing Exemption	11
	Certification Study	
	2.2.2.2 Case Study on License	17
	Testing System	
	2.2.2.3 Business Registration and	17
	Licensing System	
	2.2.2.4 Vertex Exemption	18
	Certificate Manager	
	2.2.3 Technique	18
	2.3 Project Methodology	19
	2.4 Project Requirements	23
	2.4.1 Software Requirement	23
	2.4.2 Hardware Requirement	24
	2.4.3 Other Requirement	24
	2.5 Project Schedule and Milestones	25
	2.6 Conclusion	25
CHAPTER III	ANALYSIS	26
	3.1 Introduction	26
	3.2 Problem Analysis	27
	3.3 Requirement Analysis	30
	3.3.1 Data Requirement	30
	3.3.2 Functional Requirement	35
	3.3.3 Non-Functional Requirement	45

	3.3.4 Others Requirements	46
	3.3.4.1 Software Requirement	46
	3.3.4.2 Hardware Requirement	49
	3.3.4.3 Network Requirement	49
	3.4 Conclusion	50
CHAPTER IV	DESIGN	51
	4.1 Introduction	51
	4.2 High-Level Design	52
	4.2.1 System Architecture	52
	4.2.2 User Interface Design	55
	4.2.2.1 Navigation Design	65
	4.2.2.2 Input Design	69
	4.2.2.3 Output Design	70
	4.2.3 Database Design	72
	4.2.3.1 Conceptual and Logical	72
	Database Design	
	4.3 Detailed Design	81
	4.3.1 Software Specification	81
	4.3.1.1 Login	81
	4.3.1.2 Customer Details	82
	4.3.1.3 Risk Analysis	84
	4.3.1.4 Statistical Analysis	85
	4.3.1.5 Search	86
	4.3.1.6 User Registration	87
	4.3.1.7 Zone Registration	88
	4.3.2 Physical Database Design	89
	4.3.2.1 Data Definition Language	89
	4.4 Conclusion	93

CHAPTER V	IMPLEMENTATION	94
	5.1 Introduction	94
	5.2 Software Development Environment	95
	Setup	
	5.2.1 Software and Hardware acquisition	98
	5.3 Software Configuration Management	99
	5.3.1 Configuration Environment Setup	99
	5.3.1.1 Configure Site Definition	99
	Setup	
	5.3.1.2 Configure Database	103
	Connection Setup	
	5.3.1.3 Configure Backup Setup	105
	5.3.2 Version Control Procedure	105
	5.4 Implementation Status	107
	5.5 Conclusion	109
	i kasibi basa samu.	
CHAPTER VI	TESTING	111
CHAPTER VI	TESTING 6.1 Introduction	111 111
CHAPTER VI		
CHAPTER VI	6.1 Introduction	111
CHAPTER VI	<ul><li>6.1 Introduction</li><li>6.2 Test Plan</li></ul>	111 112
CHAPTER VI	<ul><li>6.1 Introduction</li><li>6.2 Test Plan</li><li>6.2.1 Test Organization</li></ul>	111 112 112
CHAPTER VI	<ul><li>6.1 Introduction</li><li>6.2 Test Plan</li><li>6.2.1 Test Organization</li><li>6.2.2 Test Environment</li></ul>	111 112 112 112
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> </ul>	111 112 112 112 113
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> </ul>	111 112 112 112 113 115
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> <li>6.3.1 Classes of tests</li> </ul>	111 112 112 112 113 115
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> <li>6.3.1 Classes of tests</li> <li>6.3.1.1 White Box Testing</li> </ul>	111 112 112 113 115 116
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> <li>6.3.1 Classes of tests</li> <li>6.3.1.1 White Box Testing</li> <li>6.3.1.2 Black Box Testing</li> </ul>	111 112 112 113 115 116 116
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> <li>6.3.1 Classes of tests</li> <li>6.3.1.1 White Box Testing</li> <li>6.3.1.2 Black Box Testing</li> <li>6.4 Test Design</li> </ul>	111 112 112 113 115 116 116 117
CHAPTER VI	<ul> <li>6.1 Introduction</li> <li>6.2 Test Plan</li> <li>6.2.1 Test Organization</li> <li>6.2.2 Test Environment</li> <li>6.2.3 Test Schedule</li> <li>6.3 Test Strategy</li> <li>6.3.1 Classes of tests</li> <li>6.3.1.1 White Box Testing</li> <li>6.3.1.2 Black Box Testing</li> <li>6.4 Test Design</li> <li>6.4.1 Test Description</li> </ul>	111 112 112 113 115 116 116 117 118

Administrator Login	
6.4.1.3 TEST_LEC_003 Customer	120
Details	
6.4.1.4 TEST_LEC_004 Risk	120
Analysis	
6.4.1.5 TEST_LEC_005 Search	120
6.4.1.6 TEST_LEC_006 Statistical	121
Analysis	
6.4.1.7 TEST_LEC_007 User	121
Registration	
6.4.1.8 TEST_LEC_008 Zone	122
Registration	
6.4.2 Test Data	122
6.4.2.1 Unit Test for Staff Login	123
(TEST_LEC_001)	
6.4.2.2 Unit Test for Administrator	123
Login (TEST_LEC_002)	
6.4.2.3 Unit Test for Customer	123
Details (TEST_LEC_003)	
6.4.2.4 Unit Test for Risk Analysis	124
(TEST_LEC_004)	
6.4.2.5 Unit Test for Search	125
Function (TEST_LEC_005)	
6.4.2.6 Unit Test for Statistical	126
Analysis (TEST_LEC_006)	
6.4.2.7 Unit Test for User	126
Registration	
(TEST_LEC_007)	
6.4.2.8 Unit Test for Zone	126
Registration	
(TEST_LEC_008)	

	6.5 Test Results and Analysis	127
	6.6 Conclusion	128
CHAPTER VII	PROJECT CONCLUSION	129
	7.1 Observation on Weakness and Strengths	129
	7.1.1 System Strengths	129
	7.1.2 System Weakness	130
	7.2 Propositions for Improvement	130
	7.3 Contribution	131
	7.4 Conclusion	131
	REFERENCES	133
	BIBLIOGRAPHY	134
	ATTACHMENT	135
	A - Ghart Chart	135
	B - User Manual	139

# LIST OF TABLES

TABLE	TITLE	PAGE
3.1	Data requirement for zone	32
3.2	Data requirement for user	32
3.3	Data requirement for customer	33
3.4	Data requirement for risk analysis	34
4.1	LEC system navigation component	66
4.2	LEC system input design	69
4.3	LEC system output design	71
4.4	Data dictionary for zone	76
4.5	Data dictionary for user	76
4.6	Data dictionary for customer	77
4.7	Data dictionary for riskanalysis	78
5.1	Software and hardware acquisition	98
5.2	LEC system numbering of product version	106
5.3	Database	107
5.4	Customer details module	107
5.5	Searching module	108
5.6	Risk analysis module	108
5.7	User registration module	108
5.8	Zone registration module	109
5.9	Statistical analysis module	109
6.1	Personal computer configuration	113

0.2	1 est schedule	114
6.3	Staff login function	119
6.4	Administrator login function	119
6.5	Customer details function	120
6.6	Risk analysis function	120
6.7	Search function	121
6.8	Statistical analysis function	121
6.9	User registration function	121
6.10	Zone registration function	122
6.11	Unit test for staff login	123
6.12	Unit test for administrator login	123
6.13	Unit test for customer details	123
6.14	Unit test for risk analysis	124
6.15	Unit test for search	125
6.16	Unit test for statistical analysis	126
6.17	Unit test for user registration	126
6.18	Unit test for zone registration	126
6.19	Test case results	127

# LIST OF FIGURES

DIAGRAM	TITLE	PAGE
2.1	Sales tax threshold calculation	13
2.2	Manual risk analysis form (First page)	15
2.3	Manual risk analysis form (Second page)	16
2.4	System development life cycle	19
2.5	Spiral model	22
3.1	Flow chart for LEC manual filing system	28
3.2	Context diagram for manual filing system	29
3.3	DFD level 0 for manual filing system	29
3.4	Context diagram for LEC system	38
3.5	DFD level 0 for LEC system	39
3.6	DFD level 1 for user registration	40
3.7	DFD level 1 for zone registration	41
3.8	DFD level 1 for handle customer details	42
3.9	DFD level 1 for risk analysis	43
3.10	DFD level 1 for statistical analysis	43
3.11	Flow chart of LEC system	44
4.1	LEC system architecture	53
4.2	Interface design for main page	56
4.3	Interface design for invalid login	57
4.4	Interface design for customer registration	58
4.5	Interface design for customer update	59

4.0	interface design for risk analysis	00
4.7	Interface design for search	61
4.8	Interface design for statistical analysis	62
	menu	
4.9	Interface design for statistical analysis	63
4.10	Interface design for user registration	64
4.11	Interface design for zone registration	65
4.12	LEC system navigation design	68
4.13	LEC system entity relationship diagram	73
4.14	LEC system third normalization (3N)	80
4.15	Sample screen for main page	82
4.16	Sample screen for customer page	84
4.17	Sample screen for risk analysis page	85
4.18	Sample screen for user registration page	87
4.19	Sample screen for zone registration page	88
5.1	System architecture of LEC system	96
5.2	Client / server architecture of LEC system	97
5.3	Process of client / server architecture of	97
	LEC system	
5.4	Tracking of source code version by	106
	Window	

### LIST OF ABBREVIATIONS

CLT Computerized License Testing

**DBMS** Database Management System

DFD Data Flow Diagram

**ERD** Entity Relationship Diagram

**GUI** Graphical User Interface

**HPT** Hazard Perception Test

ICT Information and Communications Technology

LAN Local Area Network

LEC License Exemption Certification

OS Operating System

PC Personal Computers

PHP PHP Hypertext Preprocessor

**PSM** Projek Sarjana Muda

RM Ringgit Malaysia

SDLC Software Development Life Cycle

**UTeM** Universiti Teknikal Malaysia Melaka

WAN Wide Area Network

### CHAPTER I

#### INTRODUCTION

### 1.1 Project Background

A sales tax is a consumption tax charged at the point of purchase for certain goods and services. The tax is usually set as a percentage by the government charging the tax. The tax can be included in the price (tax-inclusive) or added at the point of sale (tax-exclusive). Sales tax practiced in the country was single level tax that levied on specific goods that imported and locally-made goods. It is being imposed when goods imported or sold, use, or vanished differently by the millers. There are companies that are not required licensed under Sales Tax Act 1972; those companies can apply for License Exemption Certification to get exemption from licensed. There is usually a list of exemptions predetermined by the government.

License Exemption Certification (LEC) is a part of internal taxing division of Royal Malaysian Custom. It is a certificate that applied by companies or person who satisfies the Senior Officer of Sales Tax in customs that the sale value of the goods or products manufactured or disposed of does not exceed the threshold of RM 100,000.00 during the preceding of twelve months. A person who eligible applies for certification of exemption will not license as a licensed manufacturer. The sale value of taxable goods likely to be manufactured or sold or otherwise disposed of by the companies or person during the next twelve months is not expected to exceed the same threshold amount of

RM 100,000.00. The certification holder had to send total sales value report every 12 months to custom officer for periodic check.

For companies that apply certification for sales calculation based on wage pay, total wage pay must not exceed RM 20,000.00 and the following company operation for next 12 months the total wage also should not exceed the same salary pay amount. The custom officer had to control and provide appropriate advice for certification holders to follow certification rules and regulation.

Currently a standalone system and manual filing system was implemented, files and logbooks are wisely used to record the information and events of the LEC holder. Custom administrators and staffs need to calculate and organized the registrations manually. Therefore a web-based computerized system was developed to substitute the current system. The system developed using PHP and MySQL as a database. This system contains a few functions that assist the officer to carry out their duty and responsibility efficiently. The pioneer functions in the system were login, customer details, risk analysis, statistical analysis and searching.

All the customer of the certification will be added through system and saved in the database. Searching is an important and essential task for user to retrieve details for particular usage instantly. Searching can be done for industrial code, industrial category, company name or file number, annual sales report submission date, total sales and district for any zones in Johor customs. This system will not only apply to particular custom organization where else through out Johor state customs that means the entire License Exemption Certification (LEC) department in Johor will update their current certification information through this web-based online system. Any information of any custom zones will access easily via this system. Apart from that, the risk status of particular company also can be calculated through this system. From the customer details for particular companies, a statistical analysis can be generated according to industry type and customs zone.

### 1.2 Problem Statements

There are several problems that identified in current systems. The developed system can prevent and overcome the existing problem. The followings are the problems identified:

- In the current standalone system, the data limited and authorized only to particular custom organization. If desire to access data for whole Johor it being hard because had to travel and get manually the data for particular purpose of data collection.
- Filing system probably leads to information lost and it's not safety because can be damaged by disaster or accident. There is no backup management for this manual system.
- iii. Some files will certainly contain highly confidential data, the control on who may access what and keep a secure system for sensitive files are hard.
- Officers have to record and update all the information manually. Therefore, requires full-time staffing and time consuming.
- Manual filing system capacity keeps on increasing as the certification holder's increase. Its required more storage capacity.
- vi. The customs officer find difficulties to detect the information or file missing when operation or management process carried out because the files may travel for several people or units are located in different (decentralized) location.

### 1.3 Objective

Objectives to be achieved from proposed project are:

- i. To increase information management where the officer easily can record, save, update or search all the information through online system. Authorized person able to access and manage data at anytime from anywhere. Data management solutions provide this key utility by storing all data in one place, and making it easier for authorized access to occur instantly.
- ii. To secure the data in systematic way and protect the data from unauthorized access. Provide negotiable levels of access to resources by allocated zone identity, password and username. Administrator access level will be different from normal user. Individual levels of resource access are negotiated between the system and each of their users through customizable accounts. Access authorization for every transaction between user and system, authorized according to the access permissions defined in their account.
- iii. To improve work conditions become more smooth and easy. Provide a comprehensive e-business solution through electronic records that drives, supports every user needs and manages data access in one easily accessible location for every License Exemption Certification (LEC) department through out Johor. Eliminate redundancy of knowledge-based work and reduce time involved with finding information in manual system.
- iv. To increase the integrity of important information safely in database. All the information populated efficiently in a stable database. This makes the data management more systematic than filing system.

- v. To automated risk analysis calculation. The risk of the company can be determined instantly by calculate the total marks of criterions, then convert it to percentage and state the risk level being easier and faster than manual calculator calculation.
- vi. To generate statistics analysis according to industry types and zones. Based on the customer details that have been saved in the database, the statistic of the particular category will be produced using bar graph.

### 1.4 Scope

This system developed especially for keep up to date all certification holder details and limited only for License Exemption Certification (LEC) department of Royal Malaysian Custom through out Johor. Target users mainly are certification department administrator or authorized officer of the department. The public also can access the system but only for information and knowledge purpose about the licensing certification not to internal system. Modules in the system are:

### i. Customer details

All the customer of the certification will be added in the system and stored in the database. The user also can update the details if there are any changes. The entered data can be viewed by loading it and can navigate one by one to view the availability of the existing data. Unwanted customer can be deleted from the database via the system but mostly the data do not deleted from the database where else will set as active when the company still in the certification and set as inactive when the company stop the certification. Handling customer details is a vast task in this online system. Apart from that,