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JUDUL: **KEY AND LOCK SYSTEM FOR MARAK STRATEGI SDN BHD**

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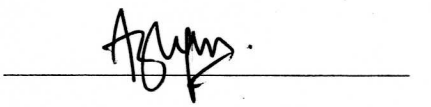

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KEY AND LOCK SYSTEM FOR MARAK STRATEGI SDN BHD

MUHAMMAD KHAIRI BIN AMAIRUDDIN

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2008

DECLARATION

I hereby declare that this project report entitled

KEY AND LOCK SYSTEM FOR MARAK STRATEGI SDN BHD

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

STUDENT : _____ Date : 25/06/08

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SUPERVISOR : _____ Date : 25/6/2008

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DEDICATION

Dedicated to my beloved parents,
HJ. Amairuddin Bin. Zainoon and Jamilah Binti Mohammad

To lectures and supervisor, Puan Azlianor Binti Abdul Aziz at Universiti Teknikal Malaysia Melaka, UTeM

Last but not least to all my beloved friends that gave me motivation, encouraged, inspired, and guided me.

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May Allah subhanahuwataa'la bless all of us.

ABSTRACT

Key and Lock System application is to help Marak Strategi SDN BHD to manage inventory in the systematic ways. The main objective of the system is to help the company in managing their business process in all aspects. Because this company is a new company, it uses manual form for their business process. The current system that is used by the company cannot handle arrange big amount of data efficiently. The Key & Lock system is developed objectively to overcome that problem and also to improve the efficiency and reliability in managing the business process. Basically this system use staff to handle product. Staff will selected suitable product for customer. If customer satisfied, it will proceed with the order. The selector decisions check the description product and compare with the price. The system also improving in secure level which is multi level user can retrieve some page. Restrict page is using for admin page. This system also provide with some maintenance, which is backup and recovery database. In admin page area, Key and Lock System also created form staff maintenance. Where company can easy store information about staff or hired new staff. This system also provide with page leave which are staff can apply leave for emergency case. However this system needs some improvement in future to make it more efficient.

ABSTRAK

Key and Lock System aplikasi dicipta untuk membantu Marak Strategi SDN BHD untuk mengurus inventori secara sistematik. Objektif sistem ini dibina untuk membantu meningkat pengurusan syarikat. Ini kerana syarikat ini adalah baru dan menggunakan sistem manual. Sistem asal yang digunakan tidak lagi dapat menampung data yang semakin meningkat. *Key and Lock system* dicipta untuk mengatasi masaalah ini dengan secara berkesan dan boleh dipercayai dalam urusan perniagaan. Pada dasarnya sistem ini mengunakan pekerja untuk menguruskan produk. Pekerja akan memilih produk yang bersesuaian untuk pembeli. Jika pembeli berpuas hati, urusan melalui tempahan akan diteruskan. Sistem ini juga dilengkapi peringkat akses halaman. Sekatan halaman digunakan untuk ke halaman admin. Sistem ini juga dilengkapi dengan kepelbagai fungsian seperti salinan dan mendapatkan kembali fail. Di halaman admin juga, *Key and Lock System* telah ditambah kefungsian untuk menguruskan pekerja, dimana syarikat boleh menguruskan data pekerja atau menambah data pekerja yang baru. Sistem ini juga telah ditambah kefungsian halaman untuk memohon cuti. Dihalaman pekerja, pekerja boleh memohon cuti seperti kes kecemasan. Walau bagaimanapun sistem memerlukan penambahbaikan untuk ia berfungsi dengan lebih baik.

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INTRODUCTION

1.1 Project Background

Lock and key, fastening fitted to an entryway, such as a gate or door, or a container, such as a cabinet, drawer or safe, to keep it closed and or prevent unauthorized access or use. A lock may be opened by a mechanical, magnetic, electric, electronic, or electromechanical key or by employing a code or sequence of numbers or letters.

In this project, the developer would like to propose to develop one computer system web based which is called Key & Lock system. Key & Lock system is referring to system's characteristics which to provide efficiency dealing with customer as easy and friendly and every customer like family. With all those great characteristics, it can be surely confirmed that the system can help to improve the management of the company. Key & Lock system is the process of managing the key and lock stock and selecting the suitable product to the customer.

Basically, Key & Lock system is going to be developed for one company which is named as Marak Strategi SDN BHD. Marak Strategi SDN BHD is a new company that provide full service Lock Company specializing in commercial and industrial security. Marak Strategi SDN BHD supplies, installs and services all types of locks and hardware, as well as safes. It specializes in access control, as well as

door closers and also offer key control systems that prevent unauthorized key duplication. This company supplies their product to both government and private sector.

The main objective of the system is to help the company in managing their business process in all aspects. Because this company is a new company, it uses manual form for their business process. The current system that is used by the company cannot handle arrange big amount of data efficiently. The Key & Lock system is developed objectively to overcome that problem and also to improve the efficiency and reliability in managing the business process.

1.2 Problem statements

The problems arise from the current The Key & Lock system is identified as follow:

1.2.1 The system that is currently used by the company is a conventional system and not secure.

The company used a manual form to record their business information and it cannot store or support big record in future.

1.2.2 The security level of the current system used by this company is low.

The current computer system that is used by this company is simple and not emphasize in security level because the system does not have backup and recovery and also user privileges.

1.2.3 The current system used by the company to manage their business is hard to be maintained.

The current system used by the company is no more suitable to use nowadays because it used manual form.

1.3 Objective:

1.3.1 To provide a secure system application

The system that will be developed will provide high security level because it has several function such as password authentication, user privileges, and also backup and recovery.

1.3.2 To provide a systematic key and lock inventory

The system that we are going to develop is easy to use and can be used to manage business process systematically. It also safely saves all the information about the company

1.3.3 To replace the current system with modern system that is more reliable.

To replace current system used by the company that is no more suitable to use nowadays because it used manual form. Also provide to replace old fashioned system that looks bore.

1.3.4 To help company increase business efficiency and manage their business easily

The system that we are going to develop is multifunction system and will record all necessary information about the company so then the company can easily monitor all information that is involved within the company hence make it easier to manage and increase efficiency.

1.3.5 To provide the company a system that easy to be maintained

The system that will be developed is easy to be maintained because it used the latest technology in software such as database MYSQL, Microsoft Window XP Professional Service Pack 2 as platform and I.E internet explorer as web browser.

1.4 Scope:

1.4.1 User

User is the person who interacts to the system.

1.4.1.1 Employee

Employee can manage customer, order, sales and product. As example employee can add, delete and update data such as to change information about product.

1.4.1.2 Manager

Manager can manage all records including sales, product and staffs records. As example manager can add, delete and update data such as to change about information staffs and order.

1.4.2 Function :

1.4.2.1 Password authentication

The user will enter the valid password before they can use the system. This module provides a different level of access to the information stored in database. This can be done by separate the users to manager level and staffs level.

1.4.2.2 Search record

System records can be search easily by search function. All record can select by select their code.

1.4.2.3 Employee Modules

The modules contain all the information about employee. This module manages account of each Marak Strategi SDN BHD staff such as their personal information, their group information and the address of the premises.

1.4.2.4 Product Modules

The modules contain all the information about product. This module contains record the product that sells to the customer. Give the quantity of type of key and lock that more frequently buy by the customer.

1.4.2.5 Customer Modules

The modules contain all the information about customer. This module contains customer personal information and the address of the premises that they must checks.

1.4.2.6 Sales Modules

The modules contain all the information about sales. All order record is store in this module.

1.4.2.7 Order Modules

The modules contain all the information about orders. Record the orders that sell to the customer.

1.4.2.8 Payment Modules

The modules contain all the information about staff payment. All record staff payment and staff contract store in this module.

1.4.2.8.1 Leave Modules

The Modules contain information staff leave. Staff can request leave in this modules.

1.5 Project significance

By creating this system, it will replace the conventional system which is used a lot of paper with the modern system which is more systematically and fully computerized. It will give a company a systematically way to manage their business process and solve the problem as stated above. By creating this system also it can help the company to manage their business easily and increase efficiency in their company. The company also no need to worry about the safety of the data because the system provide several high security functions. By using this system, the company can increase their efficiency and compete with other companies. The company also can be as most success company in Malaysia with the help of this system.

1.6 Expected Output

Key & Lock System for Marak Strategi SDN BHD is concern the delivery of system functional for the first priority to be handled. The functions that involve in this system are authentication, retrieve data, insert, update, delete data and search data is can be works successfully.

The system provides high security database with password authentication which some privileges is only can authorize by manager. Manager can handle all record included staff record. Employee is given privileges as to manage record of order, customer and view sales, and product.

The system use GUI (graphic user interface) to interact with users. The interface provides some function that can easily to use to retrieve data. The

interfaces divide into two (2) categories which are admin and main menu. The admin contains staff record, leave record, product and payment. Otherwise the main menu contains customer record, sales record, report, product record and order.

1.7 Conclusion

Key & Lock System that will be developed will overcome the problems in the current system which is less efficient. Problems cause by current system is the system cannot handle big amount of data efficiently and hard to search and retrieve required data that will be solve after Key & Lock System being developed. Also the system will provide an easier way to keep the information up-to-date. There are five (5) objectives will be achieve to make the system is successfully implementation. The objectives are listed according from the core of the system application that wanted to achieve first. Scope of this system application is the boundary to guide the system development to reduce the unnecessary process before it occurs. The scopes are divided to two (2) categories. These categories are the limit of the development can achieve. There are system function and users. Project significance is describing for the advantage of the key and lock system application when it is to be implemented. The expected result of this system is the successful of the all modules can be implementing and all objectives can been achieved.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

Literature review is useful to improve the functionalities and smoothen up the implementation of Key & Lock System. Several case studies are done in order to collect relevant information. Advantages and disadvantages from case studies also will be studied to work up Key & Lock System as a proper system. The source of research can be referring to the journal, paper work, websites and reference book.

System Development Life Cycle (SDLC) and Database Life Cycle (DBLC) is chosen as the approach used in developing Key & Lock System, project. SDLC act as a guide for system and DBLC acts as a mean to guide in the Analysis phase of the database system. DBLC is subject to six phase and all the steps in DBLC will be followed.

The remaining of the chapter will list out the hardware requirement and software requirement as well as planning for the project.