MORI HANDBAG MANAGEMENT SYSTEM (MHMS)

LIM SHIAU PIN

UNIVERSITI TEKNIKAL MALAYSIA MELAKA
DECLARATION

I hereby declare that this project entitled

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MORI HANDBAG MANAGEMENT SYSTEM

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

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SESJI PENGAJIAN: 2010/2011

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DEDICATION

This report is dedicated to my beloved parents, friends and supervisors who have provided encouragement, motivation and guidance all the way during the completion of the report.
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ABSTRACT

Mori Handbag Management System (MHMS) is a computerized system specially designed for shops selling women handbag. The current systems had been developed in our country are done manually where all the transactions are hand-written and this is very cumbersome. The purpose of doing this project is to improve the current system by computerizing all the transactions record. The target users for this system include manager and staff. The system also requires a system administrator. Different users have different types of access for the purpose of security. The admin have full privileges to manage the back-end process such as managing staff, auditing and backup or restore the database. Meanwhile, the staffs have privileges to manage daily transaction which involves customer, supplier, product, customer order, order supply, received order and payment transaction. While manager has privileges in managing all those records and generating report like admin but they are restricted from adding new staff, not able to perform backup or restore.
ABSTRAK

Mori Handbag Management System (MHMS) merupakan satu sistem pengkomputeran yang direka khas untuk digunakan dalam kedai yang menjual beg tangan wanita. Sistem terkini yang diguna dalam pasaran merupakan sistem fail yang tidak berkesan dan membazirkan masa. Objektif untuk melakukan projek ini adalah untuk menkomputerkan semua urus niaga dalam penjualan beg tangan. Sasaran pengguna untuk system ini termasuklah pengurus dan staf yang lain. Sistem ini juga memerlukan seorang admin. Pengguna mempunyai kuasa yang berbeza dalam mengakses data dan modul sistem untuk keselamatan sistem. Admin mempunyai keistimewaan penuh untuk mengurus proses belakang pangkalan data seperti menguruskan staf, mengaudit dan backup atau pemulihan. Manakala, staf yang lain hanya mempunyai keistimewaan untuk mengurus proses harian seperti menguruskan pelanggan, stok, pembekal, pesanan stok daripada pelanggan, pesanan stok kepada pembekal, menerima pesanan stok dan transaksi pembayaran. Sementara itu, pengurus pula mempunyai hak dalam menguruskan semua data dan menghasilkan laporan seperti admin tetapi mereka adalah dihadkan daripada menambah pekerja baru, tidak boleh melakukan backup atau pemulihan.
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LIST OF ABBREVIATIONS

ERD - Entity Relationship Diagram
LAN - Local Area Network
MHMS - Mori Handbag Management System
TMS - Tiara Management System
DBA - Database Administrator
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CHAPTER I

INTRODUCTION

1.1 Project Background

The Mori Handbag Management System (MHMS) is designed according to the requirement need by the handbag company. The system to be developed is divided into two main parts which are the front end that consist of the user interface to communicate with the user and the background process which is the database level.

The Mori Handbag Management System (MHMS) is already exists in the market currently but it is lack of data consistency and data transfer capability because most of the records are kept manually. This may be cumbersome in keeping and managing huge amount of records. Besides that, unauthorized person may have access to the database since most of the current system is lack of database security. This may cause loss of company profit due to the lost of important data.

Therefore, in order to improved the current system, there will be new features or modules added to the system that will be developed. The new feature that will be included is audit trail to keep track the person has been modifying the data and audit log to keep track that has been log on or log off in the system. In addition, the system also will be upgraded by generating report which enables admin or manager to analyze the
report such as the high demand of handbags that have been sold in the shops. Besides that, marketing research can be done by referring to the statistic reports for each product.

In the aspect of database level, the security database will be maintained by providing automatically scheduling database backup or restore when the database is corrupted. In addition, access controls, roles and privileges are also implemented so that the system can be accessed by user with sufficient privileges. The implementation of the database security is to fulfill the C.I.A triangle of the database security principle which is confidentiality, integrity and availability of the database.

1.2 Problem Statements

i. Time consuming in handling huge amount of data

It is time consuming in handling records that are store manually. Searching and updating the data may cause a lot of cumbersome. Besides that, problems such as data inconsistency, redundancy and anomalies will happen.

ii. Lack of data control access

The company important information such as customer information is not kept safely. Unauthorized person may have access to the database.

iii. Lack of statistic report for each product

The manager cannot analyze the report because it is too general such as only the company’s profit is showed. Besides that, it is hard to follow up on the future order that need to make from the suppliers.
iv. Lack of database security

Insufficient database security will violate the confidentiality, integrity and availability of the data. In addition, important and private information of the company will get lose if don’t have proper database backup when the database is corrupted.

1.3 Objectives

i. To computerize all the management task

This system computerizes all the management task of the information. Hence, it makes the management task more easy and convenient.

ii. To enable access control on confidential files

This system only enable authorized user to login and perform the management task. Different user will have different views of data based on the users’ position. Besides that, roles and privileges are implemented so that the system can be accessed by user with sufficient privileges.

iii. To generate analytical report

To help the administrator or manager to analyze the report such as the high demand handbags. Besides that, marketing research can be done by referring to the statistic reports for each product.
iv. To ensure the database to be more secure

Security measures such as backup and restore will be done to maintain the confidentiality, integrity and availability of the data.

1.4 Project Scope

The scope of the Mori Handbag Management System not only covers the front end of the system but also covers the background process which is the management of the database level.

1.4.1 Modules

i. Data Management Module

- This module is used to manage all the information in the system including staff, customers, orders, products and payment transaction. This yields effective and efficient management of the information of the system.

ii. Stored Procedure and Trigger Module

- This module is used to update the stocks automatically each time a transaction record is made.
iii. Audit Trail and Audit Log

- This module is used to keep track the operation that has been done in database such as user log in or log off and which table has been modified.

iv. Report Module

- This module allows the admin or manager to analyze the report such as high demand handbags that have been sold.

v. Database Administration Module

- As for database system level, user will be created with specific roles and privileges so that only certain user is allowed to perform certain operation in the database.

vi. Backup and Restore Module

- This module enable the system to backup the database automatically physically and logically and will perform database restore if there is any database failure happens. Therefore, data is protected from being damage or data loss.

1.4.2 Target User

i. Admin

- The administrator enables to register new staff and manage the staff's information.
• The administrator enables to perform administrator role such as database backup or restore and audit trail.

• The administrator enables to analyze report and configure the system for dynamic changes.

ii. Manager

• The manager can manage and access all the records in the system which includes managing the staff, customers, products, orders and payment transaction records.

• The manager can manage to analyze report.

iii. Staff

• The staff is responsible in managing the transaction between the customers and the company. The staff has limited privileges in managing the customers, products, orders and payment transaction records.

1.5 Project Significance

With computerized system replacing the manual transaction process, the management process becomes more efficient. All the records are kept and store systematically without requiring many human power to manage it. Therefore, huge amount of transaction can be done in a shorter time.

Through the Mori Handbag Management System, all the record access are restricted and monitored automatically. Each user can have specific levels of access to
various data types. Unauthorized record accesses and manipulation can be prevented. All the records are also kept up to date and confidential. Besides that, the audit trail and audit log can keep track which user has log on or log off the system and keep track which table in the database has been modified. As for the manager, he/she can view the report in more detailed and analysis can be made from the report.

By covering most of the requirements of the users, Mori Handbag Management System definitely yields a lot of benefits to the handbag company. It is not only improving customer service of the handbag company but also the efficiency of the transaction process. Besides that, the database will be backups physically and logically regularly. User can perform backup and restore to prevent data loss if any failure occurs.

1.6 Expected Output

The development of the Mori Handbag Management System will bring several benefits to the handbag company. The system makes the management task more effective since the entire managing task is computerized. The system to be developed will also provide a user friendly interface and proper guidance in system functionality. Interface plays an important role in communicating the users and the system. User friendly interface helps the user to get familiar with the system in a shorter time.

Before using this system, user need to provide correct user ID and password in order to log in to the system. This is to authenticate the identity of the user so that only authorized user can log in and perform specific task. The tasks that have been included are registering customer as member, viewing report, display the products information, calculate payment for the customer, and backup or restore the database.

At database level, roles and privileges will be conducted so that only certain users can perform specific task. This is to maintain the security of the database. The