

TESIS^ APPROVAL STATUS FORM

JUDUL: CD SHOP SALES SYSTEM

SESI PENGAJIAN: 2004 / 2005

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^ Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

CD SHOP SALES SYSTEM

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**This report is submitted in partial fulfillment of the requirements for the
Bachelor of Information and Communication Technology (Software Development)**

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
NATIONAL TECHNICAL UNIVERSITY COLLEGE OF MALAYSIA
2004**

ADMISSION

I admitted that this project title name of

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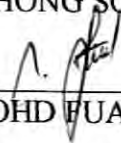
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DEDICATION

*Specially dedicated to
My beloved parents and brothers who have
encouraged, guided and inspired me throughout my journey of education*

ACKNOWLEDGEMENTS

There are no project stands alone. Many people have influenced the shape and content of all the projects and many more supported me through it. First, heartfelt thanks are due to my project supervisor, Mr. Mohd Fuad Ahmad, for his teachings and encouragement from the earliest beginning. He had been a great teacher and advisor throughout the time.

I also want to thank my parents, for their support, thoughts and advices. Nothing is possible without their support and they have really inspired me to move even further than ever.

Many other influences should be acknowledged, not least from the inspiration of people encountered in Kolej Universiti Teknikal Kebangsaan Malaysia and other friends who have consistently supported what I sought to do here are not so mentioned. I thank them all, for their warmth, belief and envouragement, from the start to finish.

I would like to make my final acknowledgement to the people of Malacca and their rich culture, who have been an important backdrop to many of the key intellectual developments underlying in the projects, from first conception to final delivery.

ABSTRAK

Sistem maklumat yang dibangunkan dinamakan 'CD Shop Sales System' (CDSSS) sebagai projek PSM. CDSSS ini dibangunkan untuk membantu satu kedai yang menjual CD dalam mengendalikan aktiviti jualan dan sebagai satu sistem berinteraksi dengan pelanggan melalui Internet. Sasaran pengguna sistem ini adalah kedai CD yang berskala medium dan kecil. Dengan itu, untuk mencapai sistem jualan yang mendahului sistem jualan yang lain, satu aplikasi sistem yang menghubungkan antara pengguna dengan pelanggan melalui Internet telah dibangunkan. Metodologi yang dipilih untuk membangunkan sistem ini adalah Waterfall Life Cycle. Aplikasi CD Shop Sales System merangkumi rekabentuk client-server. Kepentingan penyelidikan and pembangunan CDSSS membolehkan pemahaman fungsi dan prosedur sistem jualan hari ini secara mendalam. Pembelajaran and penyelidikan ini juga memberi pemahaman tentang bagaimana operasi dan bagaimana komunikasi antara sistem maklumat dan pengguna dengan pelanggan mereka. Sasaran pelanggan CD Shop Sales System ialah dari negara Malaysia. CD Shop Sales System akan digunakan secara meluas melalui Internet.

ABSTRACT

The software system called CD 'Shop Sales System' (CDSSS) is developed as the final project for PSM. CD Shop Sales System is a system that helps a CD shop to manage their sales activity and interact with their customers through Internet. The target user of this system is the medium and small scale CD shop. Therefore, in order to take the sales system a step ahead, a sales system application that used to connect and allows communication between system user and customers, using the Internet and Short Message Services technology, has been developed. The methodology to be applying in developing this system is Waterfall Life Cycle. The CDSSS application involves the client-server architecture. The importance of the CD Shop Sales System research and development enable further understanding on the features and procedures of the sales system technology today. The study also allows further understanding on how sales operates and how is connection and communication between a software system and system user with their customers. CD Shop Sales System main target user is customer from Malaysia. CD Shop Sales System has been widely used through Internet.

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LIST OF ABBREVIATIONS

ASP	-	Active Server Page
CD	-	Compact Disk
CDSSS	-	CD Shop Sales System
COD	-	Credit or Debit
ERD	-	Entity Relationship Diagram
GSM	-	Global System for Mobile
GUI	-	Graphic User Interfaces
ID	-	Identification
IIS	-	Internet Information Server
KUTKM	-	Kolej Universiti Teknikal Kebangsaan Malaysia
PSM	-	Projek Sarjana Muda
RAD	-	Rapid Application Development
SMS	-	Short Message Services
UML	-	Unified Modeling Language
XML	-	Extensible Markup Language
VB	-	Visual Basic

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CHAPTER I

INTRODUCTION

1.1 Project Introduction

I have responsible to develop a software system for the Projek Sarjana Muda (PSM). It is compulsory for BITS students to take the project before being awarded the degree. So, I have proposed a software system called “CD Shop Sales System (CDSSS)” as my final project for PSM.

CDSSS is a system that helps a CD shop to manage their sales activity and interact with their customers through information system and Internet. Nowadays, there have no an effective and systematic system to help a CD shop to handle more than hundred or thousand sales records and their customer (member) information. But, with this CDSSS, user/CD shop owner may manage their sales record and customer information in a database and interact with their customers by Internet.

The target user of this system is the medium and small scale CD shop. Current system for this type of CD shop is using log book or paper to record their daily sales information. Sometimes, this type of information is not enough to the owner/sales person to know the details of the product that had been sold out. For some customer that make booking to buy a CD, current system always lost the record or missing some important information such as booking date, time, who had made the booking and so on. Besides, current system unsecured from protecting all the member information and daily sales records.

CDSSS will help the shop owner to manage the transaction of the sales effectively and systematically. All the information of the sales and booking from customer will be recorded in a database. The user may check all the sales, stock and daily profit by using this system. Besides, customer may make a booking CD through Internet. For this type of service, customer should register as the member. So, this system provides password as system security to protect each member's information.

The methodology to be applying in developing this system is Waterfall Life Cycle. There are six stages in this development life cycle and shown as below:

- a. Preliminary Investigation
- b. Analysis
- c. Design Phases
- d. Development
- e. Implementation
- f. Maintenance

1.2 Project Objective

The objectives of CDSSS are mention as below:

- a. To develop a system that protects all the sales record and member information.
 - The system is protected by password. The user of the system would like to sign in before using the system.
- b. To reduce time consuming problem.
 - This system will save user's time by doing same procedure as current system.
- c. To produce a user friendly system.
 - This system developed by using Graphic User Interface (GUI) that makes the system becomes more interactive.
 - User guide and help file is provided.
- d. To build an easy retrieve database.

- Add, modify and delete data/record can be done easily with a well-designed architecture that can maintain verify data.
- e. Improve and maximize business transaction through Internet and SMS.
 - Support highly integrated processes and services that cross many business functions and reach out directly to the worldwide customers.
- f. Increase productivity of the staff by automated shared information and simplified booking process.
 - All the customer's booking will be saved in the database simply.

1.3 Project Scope

I have pointed out clearly that I am going to develop here is the system that managing all the product of the CD, sales record, booking information, member and the system user. For the booking feature, the member of the shop can book the CD through Internet or SMS. But, the user just allow get the CD in the shop.

I had focus on the modules which listed as below:

a. User Manager

- The entire system user has their own user name and password to access CDSSS.
- The system users were group by administrator in user group features. Administrator determines the access right of the system for each user group.
- Only administrator can create, modify and delete a system user and user group.
- System user may change their password here. Administrator is allowed change the password for each system user.

b. Product Management

- There are four categories for the product of the CD – Malay, Chinese, English and Others.
- Each category of the CD distributed to Male, Female and Group.

- All the details include CD's name, provider, CD code, price, stock will be recorded in this module (system user can add, modify, delete and search a record).
- c. Member Master
- This module handles all information for the members.
 - System user can add, modify and delete a record of the member.
 - The booking only can make by the member. The record of the booking will be saved in database.
- d. Cashier Module
- This module responsibility as a cashier machine. System user calculates all the sales for each customer by using this module.
 - If the customer is the member of the CD shop, system user may insert the member ID. The member's sales record will be saved in the database.
 - Every transaction will be recorded of date, time, payments and the change. Each sales record can be print out as receipt to the customer.
- e. Report
- Daily sales information will be displayed and printed as report.
 - Product information can be printed out as a report.
- f. Portal
- This portal developed by using ASP.
 - Ten newest albums/CDs for each category and the information will be displayed in this portal.
 - Besides, customer can register as member online. Only member allowed make a booking for the CDs online. Booking information will be displayed in the Member Master Module.
 - The member should meet face-to-face at the shop and buy the booking CD.
 - The portal provides services mainly for customer in Malaysia.

The programming language that will be used to develop this system is Microsoft Visual Basic 6.0, ASP, JavaScript, VBScript and IIS (Internet Information Services) as the server. The database application will be used to store the business details is Microsoft Access 2000. VB 6.0 can provide an interactive and user-friendly interface and make the system become easier to use.

1.4 Project Significant

With the growing of economic in Malaysia, home entertainment industry has become more popular for every people. CDSSS is important for the CD shop to stay ahead of their competitors in corporate world.

CDSSS is a business management application for CD shop. There are many shops that selling CD for popular music still continues their traditional way for the daily operation which is not systematic and slow process. CDSSS is specially designed to provide a better solution and systematic management in sales industry. This system provides more effective and flexible performance in their business and daily operation.

With the growing trend towards Internet-based sales across the sales industry, online booking product from home entertainment websites are increasing dramatically. Therefore, the CDSSS provides a method that allows the customers to make a booking through the Internet. This proper communication method in business world will helps business trading become more smoothly and successfully.

CHAPTER II

LITERATURE REVIEW

2.1 Introduction

Before start this project, proposed system has been studied with others current sales system. CDSSS is a business sales management system specially designed to fit daily business operation for medium and small scale CD shop.

I have using Internet search engine (<http://www.msn.com.my>) to find out the existing system, technology and methodology of these systems. All the information will be used as the guide to develop CDSSS system. This literature research can identified the advantages and disadvantages of the existing system and proposed CDSSS.

There are two samples of software system and one samples portal from Internet that doing similar transactions with CDSSS are be searched and analyzed. Studies of these systems and portal are significant to develop a valid, reliable and efficient CDSSS.

2.2 Case Studies

2.2.1 ShopAssist Point of Sale System 4.65

ShopAssist is a powerful windows-based point of sale system suitable for most types of retail business. Transaction types include cash, C.O.D., account, hire, apron, lay by, loan stock, quotation, credit note, refund, exchange. System modules contain stock control, stock receiving, stocktaking and cash up, banking, cash book, petty cash, creditor payments, purchase orders, credit requisitions, repairs, trip sheet, staff register, item labels and shelf labels.

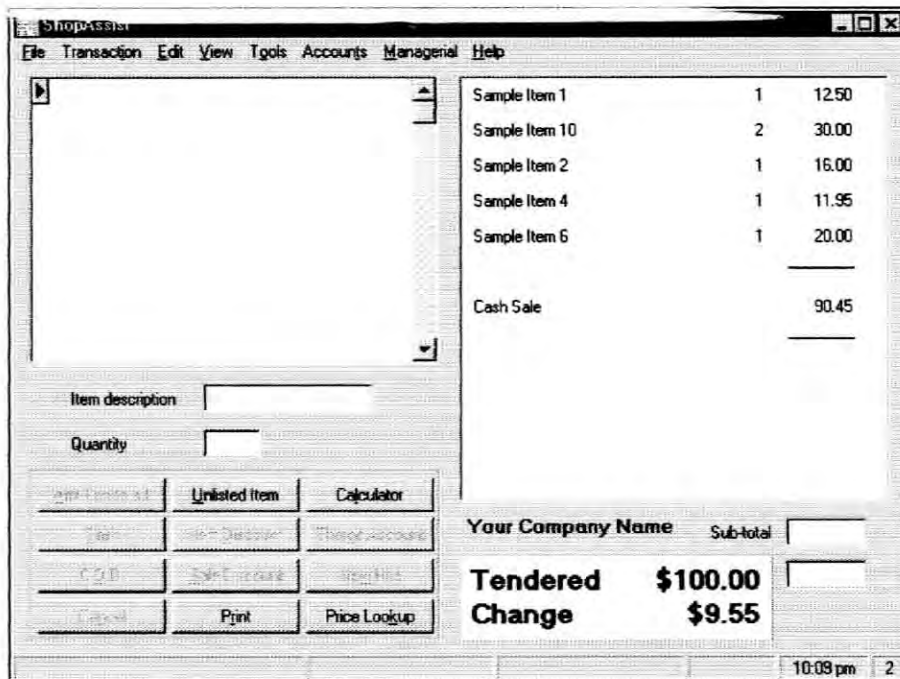


Figure 2.1: ShopAssist Point of Sale System 4.65

Features of the system are item lookup/selection by item description, item code, barcode, keyword, point and click interface (touch screen), programmable keyboard. The system promotions include free items, department discounts, timed specials, bulk discounts, purchase with purchase, loyal customer card and gift