

BORANG PENGESAHAN STATUS TESIS^JUDUL: SCARF ORDER SYSTEMSESI PENGAJIAN: 2006/2007Saya WAN SERIWATI BINTI ABDUL AZIZ
(HURUF BESAR)

mengaku membenarkan tesis (PSM/Sarjana/Doktor Falsafah) ini disimpan di Perpustakaan Fakulti Teknologi Maklumat dan Komunikasi dengan syarat-syarat kegunaan seperti berikut:

1. Tesis dan projek adalah hakmilik Kolej Universiti Teknikal Kebangsaan Malaysia.
2. Perpustakaan Fakulti Teknologi Maklumat dan Komunikasi dibenarkan membuat salinan untuk tujuan pengajian sahaja.
3. Perpustakaan Fakulti Teknologi Maklumat dan Komunikasi dibenarkan membuat salinan tesis ini sebagai bahan pertukaran antara institusi pengajian tinggi.
4. ** Sila tandakan (/)

 SULIT (Mengandungi maklumat yang berdarjah keselamatan atau kepentingan Malaysia seperti yang termaktub di dalam AKTA RAHSIA RASMI 1972)

 TERHAD (Mengandungi maklumat TERHAD yang telah ditentukan oleh organisasi/badan di mana penyelidikan dijalankan)

 / TIDAK TERHAD

Seriwati

(TANDATANGAN PENULIS)

Wan

(TANDATANGAN PENYELIA)

Alamat tetap : Lot 2420 Kg Kota
Jalan Salor,
15100 Kota Bharu,
Kelantan Darul Naim

Nama Penyelia: Pn Halizah Basiron

Tarikh : 16 November 06

Tarikh : _____

CATATAN: ** Jika tesis ini SULIT atau TERHAD, sila lampirkan surat daripada pihak berkuasa.

Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

raf

QA76.9.D26 W73 2006



0000039036

Scarf order system / Wan Seriwati Abd Aziz.

SCARF ORDER SYSTEM

WAN SERIWATI BT ABDUL AZIZ

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


**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
KOLEJ UNIVERSITI TEKNIKAL KEBANGSAAN MALAYSIA
2006**

DECLARATION

I hereby declare that this project report entitled

SCARF ORDER SYSTEM

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

STUDENT :  Date : 16th Nov 2006
(WAN SERIWATI BT ABD AZIZ)

SUPERVISOR :  Date : _____
(PUAN HALIZAH BT BASIRON)

DEDICATION

Specially dedicated to my beloved parents,
Abdul Aziz Bin Ibrahim and Wan Azizah Bt Wan Ahmad

For my lectures and supervisor, Puan Halizah Basiron at
Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM)

And lastly to my entire friend who have
encouraged, guided and inspired me throughout my journey of education

ACKNOWLEDGEMENT

Many people has contributed to the preparation of this Projek Sarjana Muda II (PSM) by supplying factual data and illustrations, as well as explaining, demonstrating of various pieces of equipment in action. I appreciate of all their efforts.

Firstly, I really thank to Puan Halizah Basirun as my project supervisor. For all of her cooperation, advices, comments and also her supports.

Next, I would also like to thank my family and friends for the moral support, patience and encouragement during my PSM II. All the suggestions and advices that have meant so much to me during my several projects together.

Last but not least, I would like to thanks to the PSM Committee for their hard work in giving the briefing explanations about the project report guidebook.

ABSTRACT

Nowadays, many shops which are selling scarfs only use a manual management system where need to fill up so many forms and a lot of papers. After that, this forms and papers will be saving into the manual file system. This method will be make a lot of problems such as the lost of form from saving file and the staff/ scarf seller need to search form from one file to other files when the form will need to use again. These forms include customers form, orders form and payments form. Besides, there is not having yet the system which is helping the customers to buy scarf as easily and quickly. Mostly, the scarf shops only sell the scarf as directly from their shop where customers need to come to scarf shop and choose scarf which they want to buy it. If the scarf which they want to buy is not having in stock, they will back home with frustrated. Furthermore, by developing the scarf order system, it will help customers quickly buy the scarf. This system will be developing by using e-commerce system. Using this system, customers can find the scarf and make an order if they want to buy it. Besides, this system also will help the staff or scarf seller manage ordering, payment and distribution with easily and systematic.

ABSTRAK

Sekarang ini, kebanyakan kedai yang menjual tudung hanya menggunakan kaedah sistem pengurusan maklumat secara manual di mana menggunakan pelbagai jenis borang atau dengan kata lain melibatkan penggunaan kertas yang banyak. Selepas itu, borang-borang dan kertas tersebut akan disimpan didalam sistem fail. Kaedah ini boleh mendatangkan pelbagai masalah seperti borang hilang dari fail yang disimpan dan pekerja terpaksa mencari borang satu persatu apabila ingin menggunakannya semula. Borang-borang tersebut termasuklah borang pelanggan, borang tempahan dan borang pembayaran. Selain itu, tiada sistem yang lebih mudah dan cepat bagi membolehkan pembeli membeli tudung. Kebanyakan kedai menjual tudung hanya menjual tudung secara langsung dimana pembeli terpaksa datang ke kedai tersebut dan memilih tudung yang ingin dibeli. Apabila tudung yang dikehendaki tiada dalam stok, pembeli akan pulang ke rumah dengan perasaan kecewa. Jesteru itu, dengan wujudnya sistem pesanan tudung ini akan dapat membantu pembeli membeli tudung secara cepat. Sistem yang akan dibangunkan ini berdasarkan jualan tudung secara e-commerce. Dengan wujudnya sistem ini, pembeli boleh mencari jenis-jenis tudung yang dikehendaki dan membuat pesanan jika ingin membelinya. Selain memudahkan pelanggan membeli tudung, sistem ini dapat membantu penjual atau pekerja menguruskan pesanan, pembayaran dan penghantaran dengan lebih cepat dan teratur.

TABLE OF CONTENTS

CHAPTER	SUBJECT	PAGE
	PROJECT TITLE	i
	DECLARATION	ii
	DEDICATION	iii
	ACKNOWLEDGEMENT	iv
	ABSTRACT	v
	ABSTRAK	vi
	TABLE OF CONTENTS	vii
	LIST OF TABLES	xi
	LIST OF FIGURES	xiii
	LIST OF ABBREVIATIONS	xv
	LIST OF APPENDIXES	xvi
CHAPTER I	INTRODUCTION	
	1.1 Project Background	1
	1.2 Problem Statement	2
	1.3 Objectives	2
	1.4 Scopes	3
	1.4.1 Scope of user	4
	1.4.2 Scopes of system	4
	1.5 Project Significance	5
	1.6 Conclusion	6
CHAPTER II	LITERATURE REVIEW	
	2.1 Introduction	7
	2.2 Fact and Finding	7
	2.2.1 Supply-Chain Management and E-	7

	Commerce Research	
2.2.2	Purchasing Management and E-Commerce Research	8
2.2.3	Inventory Management and E-Commerce Research	8
2.2.4	Case Study	9
2.3	Project Methodology	9
2.4	Project Requirements	12
	2.4.1 Software Requirement	12
	2.4.2 Hardware Requirement	13
2.5	Project Milestones and Schedules	13
2.6	Conclusion	16
CHAPTER III	ANALYSIS	
3.1	Introduction	17
3.2	Problem Analysis	17
	3.2.1 Business Process	18
	3.2.2 Problem Statement	20
3.3	Requirement Analysis	20
	3.3.1 Functional Requirements	20
	3.3.2 Software Requirement	32
	3.3.3 Hardware Requirement	34
	3.3.4 Network Requirement	34
3.4	Conclusion	34
CHAPTER IV	DESIGN	
4.1	Introduction	35
4.2	High-Level Design	35
	4.2.1 System Architecture	35
	4.2.2 User Interface Design	36
	4.2.3 Conceptual and Logical Database Design	46
4.3	Database Management System (DBMS)	60

	Selection	
4.4	Detailed Design	60
	4.4.1 Software Specification	60
	4.4.2 Physical database Design	69
4.5	Conclusion	79
CHAPTER V	IMPLEMENTATION	
5.1	Introduction	80
5.2	Software Development Environment Setup	80
	5.2.1 Client	81
	5.2.2 Server	81
	5.2.3 Client-Server Network	82
	5.2.4 Unique Resource Locator	82
	5.2.5 Database Connection	82
5.3	Database Implementation	83
5.3.1	Data Loading Process	83
5.3.2	Database Access	84
5.4	Software Configuration Management	90
	5.4.1 Configuration Environment Setup	90
	5.4.2 Version Control Structure	95
5.5	Implementation Status	95
5.6	Conclusion	98
CHAPTER VI	TESTING	
6.1	Introduction	99
6.2	Test Plan	99
	6.2.1 Test Organization	100
	6.2.2 Test Environment	101
	6.2.3 Test Schedule	102
6.3	Test Strategy	103
	6.3.1 Classes of tests	104
6.4	Test Design	105
	6.4.1 Test Description	105

	6.4.2 Test Data	115
	6.5 Test Result and Analysis	122
	6.6 Conclusion	125
CHAPTER	PROJECT CONCLUSION	
VII	7.1 Observation on Weaknesses and Strength	126
	7.2 Proposition for Improvements	127
	7.3 Conclusion	127
	REFERENCES	129
	BIBLIOGRAPHY	130
	APPENDICES	131

LIST OF TABLES

TABLE	TITLE	PAGE
2.1	Task Planning	14
4.1	Input Design	44
4.2	Data Dictionary	50
6..1	Test Environment	100
6.2	Test Schedule	101
6.3	Test Database for Scarf Order System	104
6.4	User Test and Integration Test For User Login Function	105
6.5	Unit Test and Integration Test for Register New Customer Function	106
6.6	Unit Test and Integration Test for Search Scarf by Color Function	107
6.7	Unit Test and Integration Test for Search Scarf by Category Function	108
6.8	Unit Test and Integration Test for Search Scarf by Category Function	108
6.9	Unit Test and Integration Test for Remove Item from Cart Function	109
6.10	Unit Test and Integration Test for Add delivering information Function	110
6.11	Unit Test and Integration Test for Add payment information Function	110
6.12	Unit Test and Integration Test for Add payment	111

information Function	113
6.14 Unit Test and Integration Test for Add New Scarf Function	114
6.15 Unit Test and Integration Test for Add New Scarf Function	115
6.16 Sample Test Data for User Login	115
6.17 Sample Test Data for Register New Customer	117
6.18 Sample Test Data for Search Scarf By Color	117
6.19 Sample Test Data for Search Scarf By Category	117
6.20 Sample Test Data for Add Ordering Information	118
6.21 Sample Test Data for Remove Item from Cart	118
6.22 Sample Test Data for Add delivering information	119
6.23 Sample Test Data for Add payment information	120
6.24 Sample Test Data for Add New Scarf	120
6.25 Sample Test Data for Delete Scarf Information	121
6.26 Sample Test Data for Delete Scarf Information	121
6.27 Test Case Results For Each Test Case	122

LIST OF FIGURES

FIGURE	TITLE	PAGE
3.1	ERD of the Current System	17
3.2	ERD of the TO-BE System	23
3.3	Context Diagram for Scarf Order System	27
3.4	Data Flow Diagram (DFD) Level 0	28
3.5	DFD Level 1 Process 1.0	29
3.6	DFD Level 1 Process 2.0	29
3.7	DFD Level 1 Process 3.0	30
3.8	DFD Level 1 Process 4.0	30
3.9	DFD Level 1 Process 5.0	31
3.8	DFD Level 1 Process 6.0	31
4.1	3-tier application server	36
4.2	Navigation Design for Scarf Order System	37
4.3	Customer Registration Interface	38
4.4	Login Interface	39
4.5	Main Menu Interface	39
4.6	Search Information Interface	40
4.7	Purchase Order Interface	41
4.8	Review Shopping Cart Interface	41
4.9	Payment Interface	42
4.10	Delivery Report	43
4.11	Payment Report	45
4.12	ERD of the TO-BE System	47

5.1 Client-Server Network	80
5.2 The debugging process	94
6.1 Test Organization Diagram	94

LIST OF ABBREVIATIONS

KUTKM	Kolej Universiti Teknikal Kebangsaan Malaysia
PSM	Projek Sarjana Muda
SOS	Scarf Order System
CSF	Critical Success Factors
DDLC	Database Development Life Cycle
ERD	Entity Relationship Diagram
DDL	Data Definition Language
DML	Data Manipulation Language
DCL	Data Control Language
DBMS	Database Management System
DFD	Data Flow Diagram
PHP	Hypertext Preprocessor
LAN	Local Area Network
WAN	Wide Area Network

LIST OF APPENDIXES

APPENDIX	TITLE
A	Gantt Chart
B	User Manual

CHAPTER I

INTRODUCTION

1.1 Project Background

Scarf Order System (SOS) is a web based system. It is developed to help the scarf's seller to manage their business using e-commerce system. E-commerce is the exchange transactions which take place over the internet primarily using digital technology. These exchange transactions include buying, selling, or trading of goods, services and information. This encompasses all activities supporting market transactions including marketing, customer support, distribution and payment.

This system will include the functions of customer registration, login, search scarf information, take customer's order, place order into Shopping Cart, payment, delivery and view customer order. All the functions are built in customer's menu for purchase scarf. Besides, the functions for search, add, update and delete record and generate are built in this system to maintain the record in database. All the functions are built in administration's menu.

1.2 Problem Statement(s)

Before this, the scarf's seller only used the current system to manage their business. The current system is a manual system where the owner's shop needs to record all information on papers. After that, the papers will be saved into the manual file system. It can cause a lot of problems in managing it. The problems are:

- i) Difficult to search data

All the information's are more difficult to search using the current system. The seller needs to search data from one file to another. It will waste a time.

- ii) The probability data will lost is high

From the current system, the probability data will lost is high because the data only saved into the manual file system. The data will be lost from the file or taking by other people.

- iii) The security of the information stock is not secure

Everybody can access the information stock because all the information was only saved into the manual file system.

- iv) Customers need to come at scarf shop for choose scarf

The current system needs customers to come at scarf shop for purchase scarf. When the scarf is need by the customers is not there, customers will back home with frustrated.

1.3 Objectives

The objectives of Scarf Order System are below:

i) Keep the information stock more secure and proper

The data are more secure because only the administrator will access the data. So, the probability lost of data will be decreased.

ii) Reduce response time for searching scarf

This system will help the customers to reduce their time for searching scarf. Customers can search scarf easily and quickly. Besides, the admin will search the record more easily for update and delete process.

iii) Decrease use of papers

Through this system, all the information stock will save into database and the use of papers will decrease.

iv) Report generation

This system also will develop to provide a better report for administrator such as report for view scarf's information in database.

1.4 Scopes

The scopes of the scarf order system will be focused on two major points of view which are firstly focused on users and finally focused on system itself. Focused on user is based on the wide range of users that will use this system internally and externally.

Meanwhile, the focused on systems are divided into several modules that related with system that will be develop. The scopes are:

1.4.1 Scopes of user

There are two main of users will use this system internally and externally. The internal users are customers who browse the website for purchase scarf. Besides, the externally users are scarf's seller itself who is act as administrator for this system. The administrator will use this system to maintain record and generate report.

1.4.2 Scope of system

This system will be focused on four major modules based on the main task that will be carried out. The modules are Customer Registration Module, Order Processing Module, Payment Module and Delivery Module. The scope of each module is as described below:

i) Customer Registration Module

The objective of this module is to manage the customer registration. The customer registration is an important module because the customer should register him/herself before use this system. The tasks that are included in this module are register new customer and make authentication for username and password. When the customers make registration, him/herself will state their own username and password. Then, the

username and password will be used by him/herself for enter into the system when they want to buy or browse scarf.

ii) **Order Processing Module**

The objective of this module is to manage the ordering process. This module will be used for record all information's order. The tasks that are included in this module are browse scarf and add order to Shopping Cart. Customers will choose the scarf and state the quantity of scarf which wants to buy.

iii) **Payment Module**

The objective of this module is to help the customer for make a payment. The process that is included in this module is filling up the payment form. After that, the system will validate the credit's card information which is submitted by the customers.

iv) **Delivery Module**

The objective of this module is to help the admin to delivery order for customers. The process that is included in this module is filling up the delivery form. After that, the data from the form will be saved into delivery table and it is making easier for administrator to manage delivery.

1.5 **Project significance**

The main purpose for developing this system is to help the scarf's seller to better manage their business. Using this system, the data or information will more secure because all the information will be save into the database system. So, the lost of data can be decreased. Moreover, this system will help the administrator to decrease the use of papers and files to keep the data. All the data are inserted will automatically save into the

database and it is easier for admin for manage it. Finally, it will help the customers to reduce their time for searching scarf and also help the administrator to search any records from the database.

1.6 Conclusion

As the conclusion, hopefully this project will accomplish all the project scope and the objectives of the system. Function for searching information also including in project scopes. It will help the customers to search any information. Moreover, it will help the customers to quickly make ordering process without go to scarf shop. Finally, the objective of this project is to give solutions to all the problems that faced by users in the current system.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

This chapter will discuss in detail about the literature review and project methodology which has been used to develop the scarf order system. Literature review is preview about the research, case study and other finding that relate with the project title while the project methodology is to describe the selected approach or methodology that used in the project.

2.2 Fact and finding (based on topic)

This section discuss about the research area and case study that have been done for this project. The research area will include the entire information that is related on the title of this project which focused on the research of e-commerce. The research will be explained below:

2.2.1 Supply-Chain Management and E-Commerce Research