MYDIN ONLINE SHOPPING CART

HISHAMSHAH BIN HAZMI



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

BORANG PENGESAHAN STATUS TESIS*

JUDUL:	MYDIN ONLINE SI	HOPPING CART	
SESI PENGAJIA	N:	2011	
	·	IURUF BESAR)	- 1:
Perpustakaan Falkegunaan seperti k	kulti Teknologi Maklum	rjana/Doktor Falsafah) ini disin at dan Komunikasi dengan syar	at-syarat
2. Perpu memb 3. Perpu memb penga	istakaan Fakulti Teknolog buat salinan untuk tujuan p istakaan Fakulti Teknolog	i Teknikal Malaysia Melaka gi Maklumat dan Komunikasi dib pengajian sahaja gi Maklumat dan Komunikasi dib ebagai bahan pertukaran antara	oenarkan
	SULIT	(Mengandungi maklumat yang berdarjah keselamatan atau kepent Malaysia seperti yang termaktub d dalam AKTA RAHSIA RASMI 1	li
	TERHAD	(Mengandungi maklumat TERHA yang telah ditentukan oleh organis badan di mana penyelidikan dijala	sasi/
/_	TIDAK TERHAD		
(TANDATANGA	AN PENULIS)	(TANDATANGAN PENYI	ELIA)
Ta. Jal	o68,Lot 3658,Lorong 4A man Sourabaya Indah, lan Bako,93050, uching,Sarawak	(Puan Noor Azilah Oran	ian 10 Mudo
Tarikh: 8 3	ules 2011	Tarikh: 8 Julai 20	<u> </u>
(PS	SM)	Laporan Akhir Projek Sarjana Muc TERHAD, sila lampirkan surat darip	

pihak berkuasa.

MYDIN ONLINE SHOPPING CART

HISHAMSHAH BIN HAZMI

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY UNIVERSITI TEKNIKAL MALAYSIA MELAKA 2011

DECLARATION

I hereby declare that this project report entitled

MYDIN ONLINE SHOPPING CART

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

STUDENT

(HISHAMSHAH BIN HAZMI)

Date: 8 Julian 201

SUPERVISOR

(PUAN NOOR AZILAH BINTI DRAMAN @MUDA)

Date: 8 Julai 2011

DEDICATION

To my beloved parents, supervisor, lecturers, and my friends for giving assistant and support to me to complete this project successfully.

ACKNOWLEDGEMENTS

Alhamdulillah, praise to Allah s.w.t, I am very pleased and grateful of being able to finish my final year project. First and foremost, I would like to thank my beloved parents and my family for their support and motivation that they gave to me not only for my final year project but also from the very beginning of my study in UTeM.

I would like to express my gratitude to my supervisor, Puan Noor Azilah Binti Draman@Muda, who was helping me through a lot to finish this project. I appreciate her expertise, understanding, patience and she also had given me a lot of moral supports to ensure that I can complete this project successfully.

Lastly, thank you to my friends in and outside UTeM for their exchanges of knowledge, skills, and venting of frustration while completing my final year project which helped enrich the experience. Although, I would like to thanks for many people that have contributed and helped me to complete this project. Their good deed will always remain in my memory forever. Thank you.

ABSTRACT

Mydin Online Shopping Cart (MOSC) is a web based system that has been developed for Mydin Holdings Sdn.Bhd. There are 3 types of user in this system which are administrator, customer and visitor. The system allow the user to easily manage the shopping process where an online cart will able the customer to buy from Mydin outlet from their home. All the manual process that currently used is changed to the computer based system. The shopping process such as browsing for product and manual payment method using cash which customer nowadays use is time consuming. Using MOSC, customer are able to do their shopping faster and efficiently without hesitations. Customer also can view product promotions in store at Mydin. It is important for the customer to view the promotions as it will help Mydin to get more customer. For administrator modules, admin are able to add,edit,delete and search for Mydin product,category,configuration,promotion,order and user. The order status is important for Mydin's business process as it will determine whether the orders are already been shipped or not. The development of this system is done by using PHP language and MySQL as the database management.

ABSTRAK

Mydin Online Shopping Cart ialah sebuah aplikasi web yang dibangunkan untuk Mydin Holdings Sdn. Bhd. Terdapat 3 jenis pengguna dalam sistem ini iaitu administrator, pelanggan dan juga pelawat. Sistem ini memudahkan pengguna untuk menguruskan proses membeli belah di mana "shopping cart" telah disediakan untuk pelanggan membeli barangan di Mydin daripada rumah mereka. Sistem manual yang diguna pakai sekarang telah ditukarkan kepada sistem berkomputer. Proses membeli belah yang menggunakan cara manual seperti mencari barang dan pembayaran secara tunai yang digunakan sekarang adalah memakan masa. Dengan MOSC, pelanggan boleh membeli belah dengan cepat dan efisyen tanpa teragakagak. Pelanggan juga boleh melihat semua promosi-promosi yang diadakan di Mydin. Ia adalah amat penting untuk pelanggan mengetahui tentang promosipromosi di Mydin kerana ia dapat membantu Mydin menambah bilangan pelanggan mereka. Untuk modul administrator, admin boleh menambah, mengubah, membuang dan mencari barang,kategori,konfigurasi, promosi,pesanan dan pengguna. Fungsi yang paling penting untuk admin ialah mereka boleh menukar status pesanan. Status pesanan adalah penting bagi proses perniagaan Mydin kerana ia akan menentukan sama ada pesanan itu telah dihantar atau tidak. Pembangunan aplikasi ini telah dilakukan dengan menggunakan PHP sebagai bahasa pengaturcaraan dan MySQL sebagai bahasa pangkalan data.

LIST OF ABBREVIATION

MOSC - Mydin Online Shopping Cart

SSADM - Structured Systems Analysis and Design Methodology

ERD – Entity Relationship Diagram

GUI - Graphical User Interface

PSM - Projek Sarjana Muda

PHP – Personal Home Page

LIST OF ATTACHMENTS

ATTACHMENT	TITLE	PAGE
1.1	Proposal Form	136

TABLE OF CONTENT

CHAPTER	SUBJECT	PAG
	DECLARATION	i
	DEDICATION	ii
	ACKNOWLEDGEMENT	Iii
	ABSTRACT	iv
	ABSTRAK	v
	LIST OF ABBREVIATION	vi
	LIST OF ATTACHMENTS	vii
	TABLE OF CONTENTS	viii
CHAPTER I	INTRODUCTION	1
	1.1 Project Background	1
	1.2 Problem Statement	2
	1.3 Objective	2
	1.4 Scope	3
	1.5 Project Significance	3
	1.6 Expected Output	3
	1.7 Conclusion	4
CHAPTER II	LITERATURE REVIEW AND PROJECT METHODOLOGY	5
	2.1 Introduction	5
	2.2 Facts And Findings	6
	2.2.1 Domain	6
	2.2.2 Existing System	7
	2.3 Project Methodology	9
	2.3.1 SSADM	9

	2.4 Project Requirement	21
	2.4.1 Software Requirement	21
	2.4.2 Hardware Requirement	22
	2.4.3 Other Requirement	22
	2.5 Project Schedule And Milestones	23
	2.6 Conclusion	25
CHAPTER III	ANALYSIS	26
	3.1 Introduction	26
	3.2 Problem Analysis	26
	3.2.1Overview Of Current System	26
	3.3 Requirement Analysis	28
	3.3.1 Data Requirement	28
	3.3.2 Functional Requirement	31
	3.3.3 Non-Functional Requirement	35
	3.3.4 Others Requirement	36
	3.4 Conclusion	37
CHAPTER IV	DESIGN	38
	4.1 Introduction	38
	4.2 High-Level Design	39
	4.2.1 System Architecture	39
	4.2.2 User Interface Design	47
	4.2.3 Database Design	77
	4.3 Detailed Design 4.3.1 Software Design	82 82
	4.3.2 Physical Database Design	82
	4.4 Conclusion	86
CHADTED X		
CHAPTER V	IMPLEMENTATION	87

	5.1 Introduction	87
	5.2 Software Development Environment Setup	88
	5.2.1 Environment Setup	89
	5.3 Software Configuration Management	90
	5.3.1 Configuration Environment Setup	90
	5.3.2 Version Control Procedure	95
	5.4 Implementation Status	96
	5.5 Conclusion	98
CHAPTER VI	TESTING	99
	6.1 Introduction	99
	6.2 Test Plan	100
	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	106
	6.4.2 Test Data	122
	6.5 Test Results And Analysis	122
	6.6 Conclusion	132
CHAPTER VII	PROJECT CONCLUSION	133
	7.1 Observation On Weaknesses And Strengths	133
	7.1.1 System Strengths	133
	7.1.2 System Weaknesses	134
	7.2 Proposition For Improvement	134
	7.3 Contribution	135
	7.4 Conclusion	135

CHAPTER I

INTRODUCTION

1.1 Project Background

Mydin Online Shopping Cart (MOSC) is conceptualized as an online shopping site where internet visitors can expect to find a wealth of helpful information and all necessary materials for their daily needs. Users coming to the site can order products cart sold by MOSC through a shopping cart. Affiliate providers, which have yet to be decided on, may also can sell products on MOSC site. For ease of use, the site will have search capabilities to assist visitors in finding relevant information throughout. Other interactive features will include an advertisement that the Mydin Store has in store for their customer. It is the intent that the host for the site will have the ability to provide auto-response email to visitors who shop online as a notification to indicate they have been shopping using MOSC recently. Overall goals of the look and feel will be to keep the interface simple, easy to navigate, and content oriented, without being overwhelming. Hope that the system can be as trustworthy, professional, knowledgeable, caring and friendly to the user.

1.2 Problem statement

The problem that troubles with manual shopping process is that it is time consuming. By building a system that can manage the data for a large variety of product, it can help the customer to do their shopping faster and efficient. The problems that exist in nowadays shopping process are:

- a) Browsing through product manually is time consuming because of large variety of product in Mydin.
- b) Customers do not know the total price of their purchases while still browsing for other product which may lead to over budget.
- c) Customers do not know about the promotions that Mydin has in store for them because the promotions usually are done inside Mydin outlet.

1.3 Project Objective:

MOSC continue to grow it needs to effectively provide customers with the ability to easily purchase items. Unfortunately, the existing web site lacks this functionality and is having a negative impact on customer experience and company growth.

Objectives for MOSC are built are for the user to:

- i. Enhance the overall shopping experience for Mydin customers.
- Can access an array of product information, advanced product specifications and product features.
- iii. Can search the item according its functionalities such as kitchen hardware, books, clothes and many more which will save time.
- iv. Aware live total of all items in the cart, being able to view new promotions and top selling products and be notified when the order is ready for pick up.
- v. Aware about promotions and advertisement that Mydin has in store for customer.

1.4 Project Scope:

The targeted users for MOSC are from peninsular Malaysia where Mydin branch are located at their nearest residence. MOSC mainly for users that have a busy working life which makes them unable to shops for their daily need and for users that likes to do shopping online. Nowadays, online shopping is the new style of shopping for all types of ages, not only for teenagers, but also for elderly citizens.

1.5 Project significance.

There are two people that will benefits from this project which are:

- a) Customer They can use the shopping cart to do their shopping faster and more efficient.
- b) Mydin Holdings Sdn.Bhd They can increase their customer using the online shopping cart because of the functions that are offer in MOSC will help to ease their potential customer shopping experience.

1.6 Expected Output

This proposed system will improve the current system to make the online shopping process become faster and efficient while avoiding mistake in storing data. Other than that, the data will store more systematically to avoid lost data.

1.7 Conclusion

This chapter discussed about the project background, objective, scope of the project and all problems that have been identified in the current system. Project requirement are also found which are needed to develop the system. Chapter 2 will discuss more details about existing system that are currently use and methodology used to develop the system.

CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

Literature review is the fact and information that can be used as a reference. The data in the reference are findings from the past research or sentence and also the existing systems that are currently used. The data and information were also collected through interview with the admin and customer. The purpose of a literature review is to give confidence to the reader about the project study with related information, sentence and the ideas that have been on a topic and what are the strengths and weaknesses. Literature review is also important to fulfill user requirements and specifications.

Methodology is a method or process of activities that has been used in developing the system. Mydin Online Shopping Cart (MOSC) is a web base application. There are phases in developing the system and each step of this phase is shown by a specific model. In software, the analysis and design activities are normally governed by a specific methodology.

2.2 Facts and Finding

Facts and findings establishes what the existing system does and what the problems are, and leads to a definition of a set of options from which users may choose their required system.

This section will maps out different perspective which related to the project that will be developed. It shows the visualization of MOSC. In the other situation, it will describe any element or method which is useful to be used for the purpose of searching and gathered useful information in developing this system.

2.2.1 Domain

This project is aimed to develop a web based for the company and the user. This system also allows users to search and purchase variety of products. The user can choose any type of product sold in the system and have their own shopping cart to view selected product.

There are many types and concepts can be applied for any system. MOSC will be as interactive system which provides processing data function to help user easily use the system.

2.2.2 Existing System

Today, there are a lot of system concerns about customer (who want to do shopping online) existed. The existed systems are www.walmart.com, walmart.com, walmart.com, walmart.com, walmart.com, www.walmart.com, <a href="www

2.2.2.1 Case Study: www.walmart.com

www.walmart.com is a domain that belongs to one of the United State largest grocery retailer which is Wal-Mart. User able to acquired relevant information of product sold in Wal-Mart. User can search base on they need. The searching of this website is more details and excellent then others. This website provides variety categories and user can search their desire product name according to their categories which are more details. User can filter the product by price and type. This actually will make a user easily to make a decision or choose the product they want to purchase.



Figure 2.1: Home of www.walmart.com website



Figure 2.2: Search to get the details of product

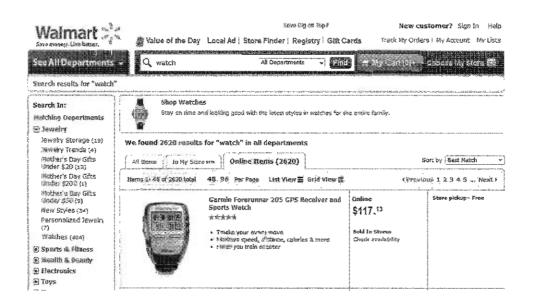


Figure 2.3: Display the result

2.2.3 Technique

There are some techniques to be implemented in the existing system. Mydin Holdings Bhd can use their own websites to advertise the product promotions by their own. Their customer will be alerted by the advertisement shown by Mydin Holdings Bhd. A cart will save selected product chosen by the customer and it will make the customer knows what they are purchasing.

Other than that, the customers also can make pay for their product using a few payment method. The method of online money transactions provides a safe and practical way to manage the risks of ecommerce transactions. This innovative system for moment transfer is entirely based on a person's banking details. When the transactions are done online, banking details such as information about funds limit and credit card details of the customer's account is required. So it is mandatory to identify the customer's authorization and the information will more secure. The major issue while making payments online is to protect the fraudulent, unwanted spam and computer viruses because they may access the information of customer over the Internet.

2.3 Project Methodology

Structured Systems Analysis and Design Methodology (SSADM)

A project methodology tells you what you have to do, to manage your projects from start to finish. It describes every step in the project life cycle in depth, so you know exactly which tasks to complete, when and how. Whether you're an expert or a novice, it helps you complete tasks faster than before.

For MOSC, the project methodology it will use is Structured Systems Analysis and Design Methodology (SSADM). SSADM is a systems approach to the analysis and design of information systems. It is an "open" methodology in that the concepts are not owned by a company, unlike many other methodologies. This has allowed it to be used by many commercial businesses, consultants, educational establishments and CASE tool developers which no doubt has contributed to its widespread use. SSADM has been extensively applied, the methodology has been modified to meet the various problems encountered in its use and it is now a very well-defined and mature approach to systems development. The current form of the methodology is version 4. The main feature of SSADM is the use of three views (the three kinds of model introduced earlier this unit) for the analysis and design of systems.

The main model of SSADM is always the logical data structure (ERD) as it generally changes the least in the course of development. Another important feature of SSADM is user involvement. Users are intensively involved at the requirements analysis stages and they are also required to "sign off" all stages as they are completed to ensure that the system will meet their requirements. To be able to do this, the users must be provided with good, clear and understandable documentation which describes the results of the work at every stage. The models form a key part of this documentation by providing different diagrammatic representations of the system which a user can easily learn to understand. The methodology itself consists of a sequence of modules, which are themselves made up of sequences of stages. These are further broken down into steps which are well-defined tasks which when completed produce the documents and models appropriate to the stage. These products are called the outputs of the stage and in true waterfall fashion form the inputs to the next stage. We will now consider the stages in detail.

2.3.1 The stages of SSADM

There are six stages of SSADM proper and one extra, the Feasibility Study which may or may not be performed depending on the nature of the project. For this reason, the Feasibility Study is referred to as Stage 0. The stages are grouped for conceptual simplicity into modules. The stages and modules are summarized in the following table.

Stage No.	Stage Name	Module
0	Feasibility Study	Feasibility Study
1	Investigation of Current Environment	Requirements Analysis
2	Business System Options	
3	Definition of Requirements	Requirements Specification
4	Technical System Options	Logical Systems Specification
5	Logical Design	
6	Physical Design	Physical Design

Figure 2.5: The stages of SSADM

We consider each of these stages in turn, outlining the main activities of the stage and the outputs of each stage.

Note: any reference to an analyst here can mean anything from a given individual to a large team of analysts and designers.