

TESIS APPROVAL STATUS FORM

JUDUL: ANAEDAR ORDERING AND STOCK CONTROL SYSTEM
SESI PENGAJIAN: 2004/2005

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ANAEDAR ORDERING AND STOCK CONTROL SYSTEM

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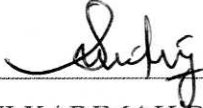
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Bachelor of Information & Communication Technology
(Software Development For BITS).

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
KOLEJ UNIVERSITI TEKNIKAL KEBANGSAAN MALAYSIA
2005

ADMISSION

I admitted that this project title name of
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DEDICATION

Specially dedicated to my beloved parents, family, friends and people who encouraged and support me in my life.....

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ABSTRAK

Sistem Penempahan dan Kawalan Stok AnaEdar merupakan sistem yang dibangunkan untuk Pusat Stokis AnaEdar Sdn.Bhd. Pusat stokis ini menyediakan perkhidmatan dan membekal barangan keluaran bumiputera kepada pelanggannya di seluruh Malaysia. Stokis ini masih lagi menggunakan sistem fail manual untuk urusan perniagaan setiap hari. Sistem ini dijangka dapat memenuhi objektif pembangunan sistem iaitu menukarkan manual kepada sistem berkomputer. Ini akan memudahkan urusan pembelian dan pembayaran dibuat. Sistem ini juga akan menghasilkan laporan secara automatik berdasarkan penempahan dan kawalan keluar masuk barang dalam stok. Sistem ini juga akan menyediakan kawalan keselamatan bagi transaksi pangkalan data iaitu hanya pengguna tertentu sahaja dapat menggunakannya. Disamping itu, pembangun sistem menggunakan metodologi air terjun kerana metodologi ini menggunakan konsep langkah demi langkah untuk menyiapkan sesuatu sistem.

ABSTRACT

This case study suggests developing a computer system for AnaEdar Sdn. Bhd stockis. AnaEdar Sdn. Bhd has a lot of branches in Malaysia that provide services and supply Bumiputera's goods to their customer. The stockis is using manual file system for their everyday business transaction. There are a lot of problems occurs in restoring data. So, it needs a computer system to solve the problems. AnaEdar Ordering and Stock Control System will fulfill the objectives such as transform the manual system to computer system for data restore and make the payment and purchase order easier. The system will also calculate automatically for preparing the report based on the ordering and input output item in stock control. This project also provides security for database transaction. Only the authorized user can use the system. Beside that, developer also using methodology waterfall model because its to approach that begin at the system level and progresses though step by step.

TABLE OF CONTENTS

	Content	Page
	PROJECT TITLE	
	TESIS APPROVAL STATUS FORM	
	ADMISSION	ii
	DEDICATION	iii
	ACKNOWLEDGMENT	iv
	ABSTRAK	v
	ABSTRACT	vi
	LIST OF TABLE	vii
	LIST OF FIGURE	viii
	LIST OF ACRONYM	ix
	INTRODUCTION	1
1.1	PREAMBLE/OVERVIEW	1
1.2	PROBLEM STATEMENTS	2
1.3	PROJECT OBJECTIVES	4
1.4	SCOPES	5
1.5	CONTRIBUTIONS	5
1.6	EXPECTED OUTPUT	6
1.7	CONCLUSION	7
	LITERATURE REVIEW	8
2.1	INTRODUCTION	8
2.2	FACT AND FINDING	9
2.3	CONCLUSION	16
	PROJECT PLANNING AND METHODOLOGY	18
3.1	INTRODUCTION	18
3.2	HIGH-LEVEL REQUIREMENT	19
	3.2.1 SOFTWARE REQUIREMENT	19
	3.2.2 HARDWARE REQUIREMENT	20
3.3	SYSTEM DEVELOPMENT APPROACH	21
	3.3.1 EARLY INVESTIGATION AND SYSTEM ANALYSIS	21
	3.3.2 SYSTEM DESIGN	24
	3.3.3 DEVELOPMENT SYSTEM	25
	3.3.4 TESTING AND EVALUATION SYSTEM	25
	3.3.5 OPERATION AND SUPPORTIVE SYSTEM	27
	3.3.6 SELECTED METHODOLOGY JUSTIFICATION	27
3.4	PROJECT SCHEDULE AND MILESSTONED	28
	3.4.1 GANTT CHART	28
3.5	CONCLUSION	29

ANALYSIS STUDY	30
4.1 INTRODUCTION	30
4.2 ANALYSIS OF CURRENT SYSTEM	30
4.2.1 BUSINESS PROCESS	30
4.2.2 PROBLEM ANALYSIS.	33
4.2.3 PROBLEM STATEMENT	35
4.3 ANALYSIS OF TO BE SYSTEM	38
4.3.1 FUNCTIONAL REQUIREMENT	38
4.3.2 TECHNICAL REQUIREMENT	39
4.3.2.1 SOFTWARE REQUIREMENT	40
4.3.2.2 HARDWARE/FIRMWARE REQUIREMENT	42
4.3.2.3 IMPLEMENTATION /DEVELOPMENT REQUIREMENT	42
4.4 CONCLUSION	43
DESIGN	44
5.1 INTRODUCTION	44
5.2 PRELIMINARY/HIGH – LEVEL DESIGN	44
5.2.1 RAW INPUT/DATA	45
5.2.2 SYSTEM ARCHITECTURE	46
5.2.2.1 THREE-TIER APPLICATION INTERACTION MODEL	47
5.2.3 USER INTERFACE DESIGN	48
5.2.3.1 NAVIGATION DESIGN	51
5.2.3.2 INPUT DESIGN	57
5.2.3.3 OUTPUT DESIGN	60
5.2.4 DATABASE DESIGN	61
5.2.4.1 LOGICAL DATABASE DESIGN	61
5.3 DETAILED DESIGN	62
5.3.1 SOFTWARE SPECIFICATION	62
5.3.2 PHYSICAL DATABASE DESIGN	69
5.4 CONCLUSION	70
IMPLEMENTATION	71
6.1 INTRODUCTION	71
6.2 SOFTWARE DEVELOPMENT ENVIROMENT SETUP	71
6.3 SOFTWARE CONFIGURATION MANAGEMENT	73
6.3.1 CONFIGURATION ENVIRONMENT SETUP	73
6.3.2 VERSION CONTROL PROCEDURE	79
6.4 IMPLEMENTATION STATUS	79
6.5 CONCLUSION	82

TESTING	83
7.1 INTRODUCTION	83
7.2 TEST PLAN	84
7.2.1 TEST ORGANIZATION	84
7.2.2 TEST ENVIRONMENT	84
7.2.3 TEST SCHEDULE	84
7.3 TEST STRATEGY	85
7.3.1 CLASSES OF TEST	86
7.4 TEST DESIGN	87
7.4.1 TEST DESCRIPTION	87
7.4.2 TEST DATA	88
7.5 TEST CASE RESULT (FOR EACH CASE INDIVIDUALLY)	89
7.6 SUMMARY	91
7.7 CONCLUSION	91
PROJECT CONCLUSION	92
8.1 OBSERVATION ON WEAKNESSES AND STRENGTHS	92
8.1.1 WEAKNESS	92
8.1.2 STRENGTHS	92
8.2 PROPOSITIONS FOR IMPROVEMENT	93
8.3 CONCLUSION	94
BIBLIOGRAPHY	
APPENDIXES :	
APPENDIX A : GANTT CHART	
APPENDIX B : CONFIGURATION	
APPENDIX C : USER MANUAL	

LIST OF TABLE

Table	Pages
Table 3.1: The list of software used to develop a methodology.	19
Table 3.2: The software type used to develop the system.	19
Table 3.3: Suggested Requirements for Hardware Configurations.	20
Table 4.1: Software types that involve in system implementation	40
Table 4.2: Equipment types that involve in system operation	42
Table 5.1: Raw data for <i>negeri</i>	45
Table 5.2: Raw data for <i>pegawai</i>	45
Table 5.3: Raw data for <i>produk</i>	46
Table 5.4: Raw data for <i>tempahan_pelanggan</i>	46
Table 5.5: Ordering Form	57
Table 5.6: View Customer Order	58
Table 5.7: Login Form	59
Table 5.8: Data Dictionary	69
Table 6.1: Summary of VCP	79
Table 6.2: Progress development status	80
Table 7.1: Test schedule according tasks, activities and duration to carry out testing activities.	85
Table 7.2: Test design record according purpose, test description and expected result.	87
Table 7.3: Test data record according test cases, test data and expected results.	88
Table 7.4: Test case record according test case ID, tester, test objective, test data, result.	89

LIST OF FIGURES

Figure	Pages
Figure 4.1 : Three stages of software used to develop a methodology	40
Figure 5.1 : AnaEdar Ordering and Stock Control System	47
Figure 5.2 : Interface for Main Page System	48
Figure 5.3 : Interface for Login	49
Figure 5.4 : Interface for Customer Reservation Information	49
Figure 5.5 : Interface for <i>Penyelaras</i>	50
Figure 5.6 : Interface for <i>Kerani</i>	50
Figure 5.7 : Interface for <i>Pegawai Stok</i>	51
Figure 5.8 : Main Navigation	52
Figure 5.9 : Form Customer Navigation	52
Figure 5.10 : Login Navigation	53
Figure 5.11 : <i>Penyelaras</i> Navigation	53
Figure 5.12 : <i>Tempahan</i> Navigation	54
Figure 5.13 : <i>Penyelenggaraan Kod</i> Navigation	54
Figure 5.14 : <i>Pegawai Stok</i> Navigation	55
Figure 5.15 : <i>Tempahan</i> Navigation	55
Figure 5.16 : <i>Carian</i> Navigation	56
Figure 5.17 : <i>Stok</i> Navigation	56
Figure 5.18 : View total of the customer order	62
Figure 5.19 : AOSC Entity Relationship Diagram (ERD)	62
Figure 5.20 : Context Diagram for AOSC System	63
Figure 5.21 : Context Diagram Level 0 for AOSC System	64
Figure 5.22 : Context Diagram Level 1 for AOSC System	65
Figure 5.23 : Context Diagram Level 2 for AOSC System	66
Figure 5.24 : Context Diagram Level 3 for AOSC System	66
Figure 5.25 : Context Diagram Level 4 for AOSC System	67
Figure 5.26 : Context Diagram Level 5 for AOSC System	68
Figure 6.1 : Software Development Environment for AOSC	72
Figure 6.2 : Welcome wizard	74
Figure 6.3 : Licence Agreement	74

Figure 6.4 : Server Information	75
Figure 6.5 : Setup type	75
Figure 6.6 : Destination Folder	76
Figure 6.7 : Apache start service	76
Figure 6.8 : winMySQLadmin.exe	78
Figure 6.9 : Setup MySql Server name and password	78
Figure 6.10 : MySql server running	78

LIST OF ACRONIM

KUTKM	Kolej Universiti Teknikal Kebangsaan Malaysia
HTML	Hypertext Manipulated Language
UiTM	University Institute of Technology MARA
PMI	Homepage For Persatuan Mahasiswa Islam
ASP	Active Server Programming
PHP	Hypertext Preprocessor
SDLC	System developments Life Cycle
FTMK	Fakulti Teknologi Maklumat dan Komunikasi
AOSC	AnaEdar Ordering and Stock Control System
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
LAN	Local Area Network
RAM	Random Access Memory

CHAPTER I

INTRODUCTION

1.1 Preamble/Overview

Most of the management and requirement is done by the store maintenance use manual technique. This manual technique involved the used of lots printing documents that gave problems in a documentation process. Information that is recorded at the AnaEdar stockiest center such as receipt, addresses, and stockiest information must be saved in hard-copy and will be placed in a locker in sequence according to the file name and categories.

This research is done to get more information about the manual technique and the activities involve at the AnaEdar stockiest center. The research also done to investigate problems acquires and finds a way to solve it. A proposal is purpose to show how the problems will be solved. The idea in the proposal is to build an effective management information system that will help store maintenance to manage the stuff.

This research is in hoped of given a solution of solving the system information management inside the AnaEdar stocks such as the file space saving problems, the issues regarding the controlling the input and output process of the store stuffs. This research helps in managing the incoming information, the unfilled information, lost information, not updated information, and etc.

On this inventory process addition, the user only has to key-in the amount quantity of inventory addition and the system then will add it with available inventory amount in the store. The same things happen on the inventory output process where the system will record the output quantity and will make a minus calculation process with

the available inventory amount in the store. Using this method, the user will no longer had to calculate the overall inventory amount or do it manually. This is because of all record process of the system are done automatically.

1.2 Problem Statement

The reservation and stock controlling of AnaEdar is created to overcome some problems that occurred to the stockiest manager. The problem is state below:

i) Database management problems.

This system is built to overcome a management problems in the database management such recorded an information, updating information, erase, and stored information in the computer in much easier, smoothly, and safer. With this way the user will able to know the budget used to buy the bargain that had less stock.

ii) Data safety problems

Even tough the data safety in the database management process is also important to make sure each data kept is safe. This is because data safety might not safe if it is kept manually. Sometimes, careless will cause important information are lost from the storage where an old paper were abandon and thrown away this will bring a difficulty to the management site.

However if the system development are not provided along with a password, it might unsafe. Thus, the system design are providing with safety feature that need to be entered by user before entering system. With this way, it will bring a difficulty for irresponsible person to entering the system.

iii) The Updating Data Problems

The users are also facing the problems in updating the storage data. The updating process is also important to the user to ensure the data recorded is always been updated and ensure any relevant information in database stored is latest and proven.

iv) Problems in fast and easy searching.

The searching in easier are often occurred by user that facing a crowded data in a database. This system is providing a searching button that could help user in searching process. Those processes wither based on word typed or searching category.

v) Problems to recorded total inventory exit and entering store.

The process of recorded an inventory data that entering and exiting store will be much easier by using this system. This is why, each inventory that exit and entering from store will be recorded. If the users are still using manual method, users are facing such process of entering and exiting problems that unable to record precisely. And also, the corruption in inventory handling might occurred.

In the process of increasing inventory, the users are only need to entering total quantity of increasing and the system will increasing total inventory available in store. Same also with an inventory production process, where the system will recorded the production quantity and perform rejection process with total inventory available that entering and exiting from store manually. This is because all recording process is done by the system automatically.

vi) Problems of recording total inventory, monthly expenses.

Every inventory expenses from suppliers are also important to be recorded to ensure total expenses are worth with the profit. By using a manual method,

every expenses bill will be kept and sometimes it might lose. This will bring a difficulty for monthly recording.

vii) Problem of reservation process from customer.

Users are required to accumulate the entire bill that acquired from suppliers in every month. If careless occurred, this will crucial the process. Through this system, users are only acquired to recorded the buying data into the system, and the process of calculating total inventory of customer order in every month will be accomplished by the system.

viii) The problems of stock checking in the store.

Other problems involve is the difficulty of identifying a stockless inventory. This is because the user might not have enough time to check total inventory in the store in much easier and faster technique. Through the research, user will identify total inventory that insufficient in the store.

1.3 Project Objective

i) Make it easy for user to get the stock material status left while making reservation process.

Allowed and make it easier for the user to make a checkup for stuff in stock follow the category of stuff, also make it easier for stuff booking from customer side. The user will also has no need to calculate the stuff amount using the old days method that needed to be manually calculate each of the stock. This new system will helps the user in knowing the updated stuff amount on the store as the stuff amount itself seldom change according to its manufactured and acquired process.

1.4 Scopes

The contents of this research would be as follow:

- i) Facilitated the user in producing a stock report that are schedule as the date, month, and years.
Ensuring that the stocks report are produced as schedule according to date, weeks, month, and years. This facilitated the user in getting a statistics reporting systematic way based on the report that was saved on database.

- ii) Noticed the user in knowing the stuff amounts that are decreasing in the stock. This will ensure the user to check the stuff amounts that are decrease and its minimum quantity for each of stuff. This checkup can be made easily and all the sold stuff are automatically been recorded its balanced. The user will know the most sold out stuff and the minimum stuff required by user.

1.5 Contributions

The implementation of AnaEdar ordering and stock controlling will decrease the paper used in recording the stock stuff data. In the past, the record processes for stuff stock are based on paper used and its implementation is not systematic. These causes another type of problems such data lost which make the process of relocating the data is a bit difficult.

This project exposed the AnaEdar stocks management in managing the incoming and out coming manufacture stock and the booking that was made according to the acquired stuff. As for this, the booking process can be done effectively. In the same time user can also make a checkup on the stuff directly.

The implementation of the system also helps the AnaEdar stocks in aspect of time saving. Through this project, the AnaEdar stock will have the chance to know the

total of each of stuff such as the updated amount of the stuff stock. Stuff searching also can be done effectively based on the system reference in getting the location of the stuff that is looking for.

1.6 Expected Output

Result from the research that was done toward this system showed that the AnaEdar stocks is a company that focusing on the buying and selling stuff such as booking stuff that was made by the user and ensuring the stuff that is require by the user can be provide perfectly.

The research that was developed is in hoped of transiting and helping the AnaEdar stocks center in getting the exact totally for each stuff on the stock and also achieving the of the stuff. This will surely make the stuff booking process easier and effective.

This project provided benefits in solving the problems that was faced by the management side. On the aspect of capability, this system capable on recording the data, make a calculation on the incoming and out coming inventory for every part of time and also capable of detecting any inventory that needed to be add on or out of stock. In other word, this project was developed for helping the manager and also the store keeper/maintenance in solving any problems that was faced by the AnaEdar stocks and in the same time tried to achieve its main purpose.

1.7 Conclusion

Chapter 1 had discussed about the overview of AnaEdar Ordering and Stock Control system. This project will provide the system as requested for customer and staff AnaEdar . It will simplify the user's task in term of finding the receipt of customer ordering.

There are several objectives need to be achieved for this project. This including providing a new idea of ordering system. Beside that, the system development has its own contribution and significance in many aspect which are significance to the user and organization. This has leaded the system developer to the new idea of implementing this project.

CHAPTER II

LITERATURE REVIEW

2.1 Introduction

This research was done in analyzing the techniques and also the method that was implemented by other available or previous system that have the similarity with this system. The main purpose for this literature research is to make a research on how the project is going to be implemented and made a best selection for the method that will be used on. Other than that there are a few proposed solution that are made for development of this project.

Through this literature research, the project requirements proposed can be known and can be understood. The available system problems can be used in getting the ideas on how to find a solution for handling the problems.

There are many types of steps that can be used in research making. Research was started toward the background of the organization in knowing the system suitability acquired by the organization. Next, an interview with the organization manager and also its staffs are made on getting information on how the previous or available works are done and if there are any problems acquired through it. Other than that, process that involve must be known its beginning and its end process to ensure no process are left behind.

Beside the interview method, others techniques were also been used in perfecting the information that were collected. For example, the observation technique, reading and searching through the internet were also been implemented in understanding the

proposed system more clearly especially items that involved the technology used. Information that was needed for this project is achieved from the AnaEdar Stokiest staff.

2.2 Fact And Finding

System researches were done toward the previous and available system which focused on the theories which were used in developing its. Concept such as searching, login select query and button concept was used in connecting every interface with one another.

Research involved stokes and inventory management for nowadays purposed is limited. This opinion is made by Encik Rahmat Mohd Nor (1999) who made a research on “ Sistem Pengurusan Inventori dan Stok Pejabat Sekolah” and described that the system part that was made manually must be change with a better management system.

However Encik Rahmat Mohd Nor has focused on preparing the requirement for providing a tutorial toward the school members and also in-charge on the security criteria in ensuring that the system will brought profit for the management organization. The library is the perfect example for the system that maintain its stoke and its inventories.

The mention research are done by Mohd Arifen Naim (1999) who state that the information management system that was developed have managed to increase the saving data process and also the data updating task. For example the record achieving for un-printing materials, record for printing material, record for physical facilities used, the equipment record and lastly the expenditure record.

Another field that have a connection with stoke and inventory is the textbooks borrowing skim management. The research was made toward the “Sistem Pengautomasian Skim Pinjaman Bke teks SK (Perempuan) Bukit Kuda, Klang” that was

made by Raudzifah Haji Omar (2000). The researcher has developed the system by using the Microsoft Access Office software.

The development of this system are on proposed of tried to increase the effectiveness of managing the texts books through a systematic type of way using the computer technology.

This system was designed in given facilities for the teachers and also the school management in getting accurate and updated information. The school side also can achieved a report that is needed according to specify time. This showed that the system that was developed for the used of the school purposed have managed to handle the task that was programmed on it successfully.

However, there are still no overall research that was done toward the achievement of the stoke and inventory system. As for this, a comprehensive research must be made in ensuring that the stoke and inventory management can be progress effectively.

a) Asset and Inventory Management System

The main objective of the development of this system is to help the ESPEK in observing every asset and inventory that have been bought. The classifications are made in deciding whether the material are classify on the asset or on the inventory. This are made according to the price of the material. If the price are RM 5000 and above so it will be categorized as asset and if the price is below then RM 5000 so it will categorized as inventory.

This project included with system criteria such as the 'login password' for data security, members registration for new user an lastly the searching function that was made base on the dates, categories and also keyword that must be key-in by the user.