



Practical Development of Information System in Business Context:
Abac Dummy Inventory System for Abac Dummy Company

PROJECT WRITE-UP

Prepared by

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Submitted in Partial Fulfillment
of the Course BIS 4995 Information System Development
Bachelor's Degree of Business Administration
in Business Information Systems Program
Assumption University

December, 2004

Project Name: Abac Dummy Inventory System, Abac Dummy Company


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The Department of Business Information Systems, ABAC School of Management has approved the aforementioned project, which includes complete Project Write-up and System submitted in fulfillment of the 3-credit course BIS 4995 Information System Development towards the requirements for the Bachelor's Degree of Business Administration in Business Information Systems

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March, 2004

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I. INTRODUCTION

1.1 Organization's Profile

The idea of Abac Dummy Company was come from the summer training of Abac students in 1975. Mr. Kasem Kornseri, the president of Abac students, and Mr. Suthep Chawanavirat, the CEO of SC Johnson and Johnson Co., Ltd., were the founders of Abac Dummy Company.

In 1980, Thailand Management Association brought the idea of Abac Dummy Company to the universities that provided BBA program. They provided the training for the students and assigned the advisor for each Dummy Company. Moreover, they evaluated the results and gave the certificate to the students in Dummy Company.

In 1993, Abac spread the idea of Abac Dummy Company to the universities which had no Dummy Company by using the name "Dummy Company Management Training Project (MAT Project)". There were many universities that were interested in this project such as Khonkan University, Maejo University and Burapha University.

In 1994, Abac offered the varied projects. They were not strict in operating more than 1 company in a year. All of these depend on the performance and interesting of the students as a major drive.

1.2 Organization's Location

The office of Abac Dummy Company is located at the 1st floor of Q Building of Assumption University, Hua Mark, Bangkok 10240, Thailand.

1.3 Organization's Structure

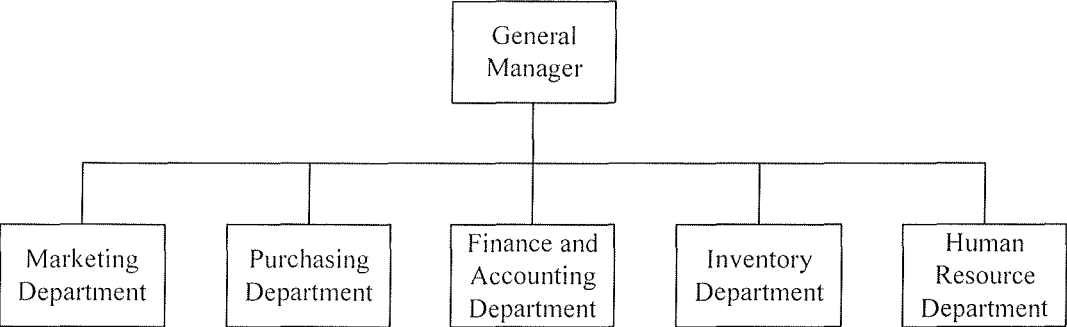


Figure 1-1 Organization Chart

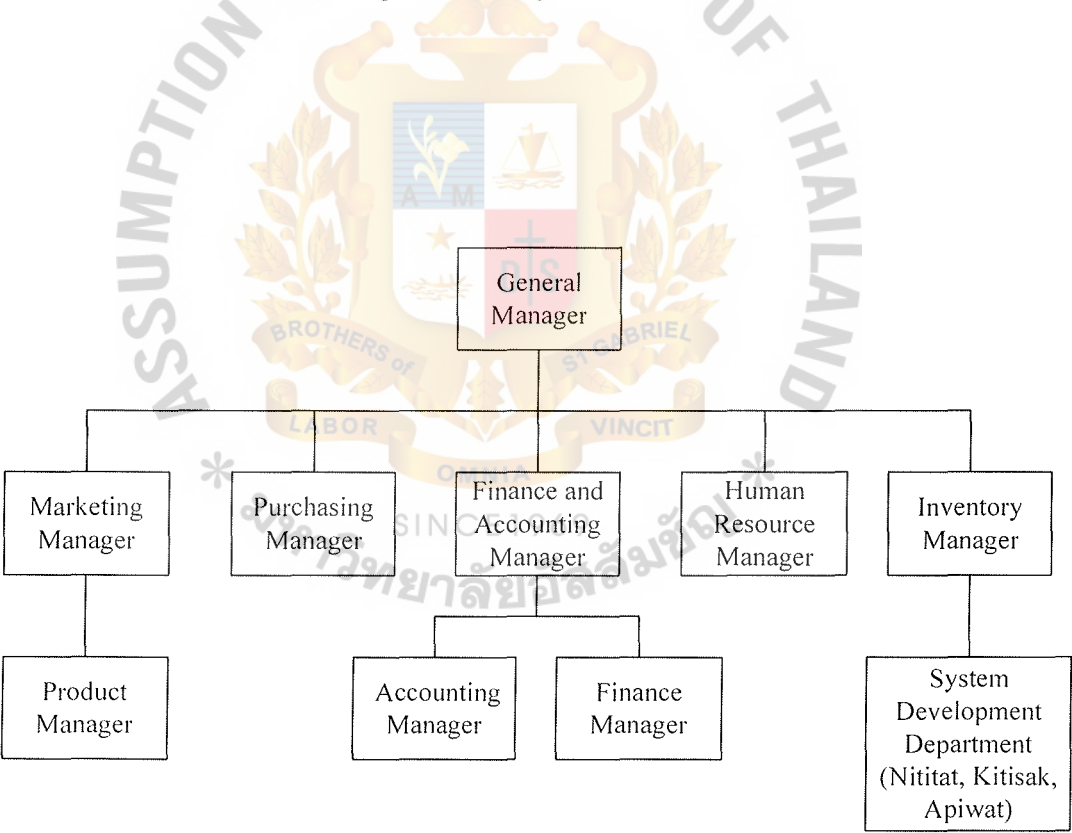


Figure 1-2 Department Chart

1.4 Project Plan

We will start the project on 31 October 2004 and the finish date is 19 February 2005. The first main task is Analysis of the existing system which would take 7 days to finish. We will start this task on 31 October 2004 and finish on 7 November 2004. This task includes 4 sub tasks that are Study of the existing system and Problems definition. The first sub task takes 4 days and the second sub task takes 3 days.

The second main task is the Feasibility study, which takes 10 days which is divided into 3 sub tasks. The first sub task is Define the objective and scope which takes 4 days to finish. The second sub task is Hardware and software requirements which takes 4 days. The third sub task is Cost analysis which takes 4 days.

The third main task is Design of the proposed system that requires 50 days to finish. This task has 7 sub tasks included Data Flow Diagram, Entity-Relationship diagram, Database Design, Process specification, Data dictionary, Interface Design, and Management Report Design.

The forth main task is the Implementation of the proposed system, which requires 67 days to finish on 19 November 2005. There are 3 sub tasks included Coding, Testing, Documentation. Coding takes 53 days. We give a lot of days for Coding because we are new for programming. Testing takes 44 days and Documentation takes 67 day.

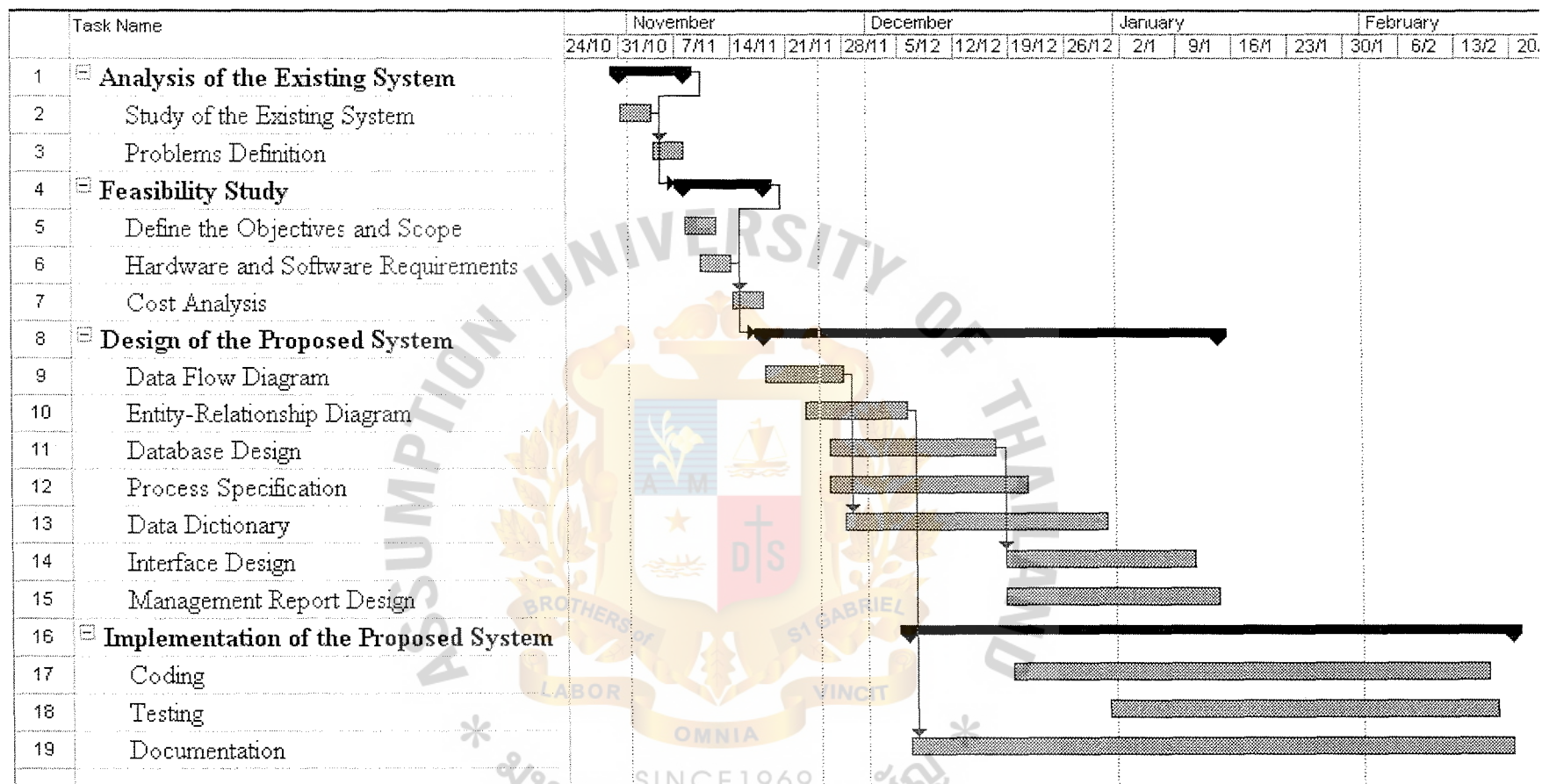


Figure 4 Project Plan for Abac Dummy Company-Dummy Inventory System

II. THE EXISTING SYSTEM

2.1 Background of Existing System

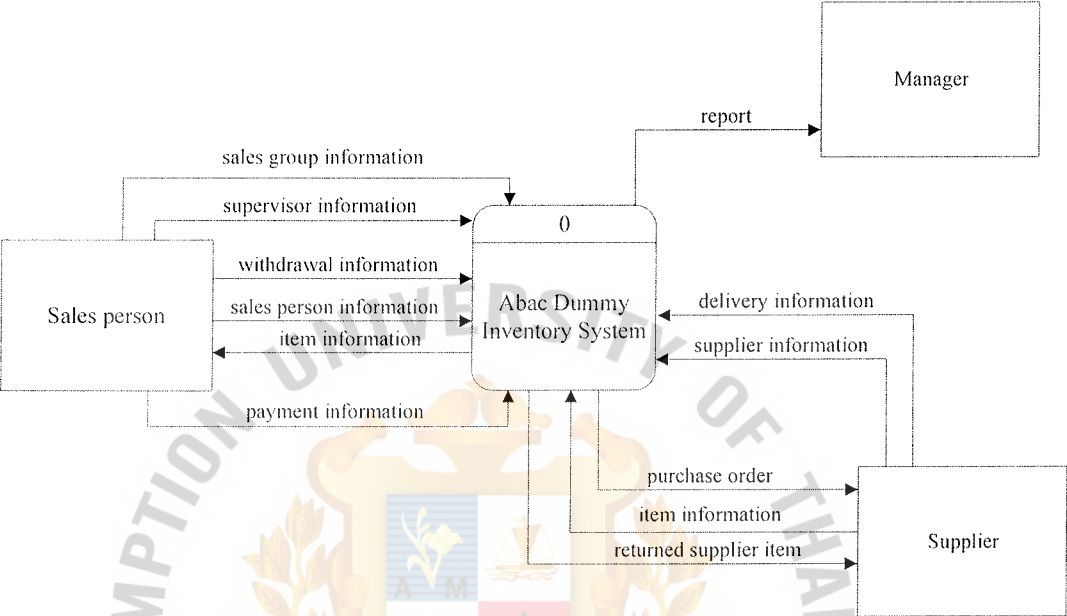


Figure 2-1 Context Diagram of Existing System

2.2 Problem Definition

(1) Difficulties in managing inventory.

It is possible to be out of stock if many sales persons withdraw many products at the same time. When the sales persons return the products, it increases the cost of warehousing in order to keep the returned products. And sometimes it has no place to keep the returned products.

(2) Insufficient of data to make a decision.

Theoretically, the manager uses the information to make a decision. When an information system cannot provide accurate and timely data to managers, effective decisions cannot be made. This could have an effect on overall operation since decisions are not based on complete insight in flowing of stock, including those associated with costs and opportunities.

(3) Difficulties in searching information.

The withdrawn document is needed to be signed when the sales person want to borrow items. The copy is kept by sales person while the original is kept in Inventory department. The problem occurred when the inventory department keeps many withdrawn document as a result some data may be lost and it is difficult to check stock.

(4) Island of Information.

Comprehensive gathering all required information remains a challenge for new enterprises. In addition to the lack of database, information is continued to be kept in non-digitized format. Therefore, updating such information is not effective.

III. THE PROPOSED SYSTEM

3.1 Feasibility Study

(1) Objectives of the System

- a) Set the returned policy.
- b) Create means and way to ensure data consistency.
- c) Reducing organization cost by transforming the data in paper to the digitized format.
- d) One database will be shared throughout the company.
- e) Improve work and decision accuracy.

(2) Scope of the System

a) Purchase management

- To print item quotation.
- To add, edit, update or delete supplier information.
- To record the purchase order.
- To print purchase order.
- To keep track of product that is on delivery.
- To calculate total cost of item.
- To print return script for the item that is defective.
- To alert the returned item to supplier one day before due date.
- To print the returned item to supplier that is due.

b) Storage room management

- To add, edit, update or delete items information.
- To update stock information.
- To record the withdrawn and returned item.
- To check the stock available.

- To alert user when the stock is lower than safety stock level weekly.

c) Sale management module

- To add, edit, update or delete sales person information, sales group information and supervisor information.
- To add, edit, update or delete customer information.
- To print invoice.
- To print receipt.
- To record total sales of each seller weekly.
- To print the sold item weekly.

Sale performance module.

- To grant a sales volume quota to the sales person.
- To show schedule and location sales.

Sale return module.

- To set the return policy.
- To alert the returned item to seller one day before due date.
- * To print the returned item to seller that is due.

d) Management Report module

- To print the order list for new item weekly.
- To print the report of item cost weekly.
- To show comparing relationship between weekday sales report and weekend sales report.
- To show comparing sales report between current and previous month in table.
- To print the inventory report categorized by inventory on hand
- To print a safety stock list

- To generate the best sales report weekly.
- To print stock list at the end of each week.

(3) Hardware and Software Requirements

We will use Visual Basic 6.0 because it is flexible for editing and evaluating. Next, we use Microsoft Access 2000 to provide Microsoft Access Query with visual basic 6.0. For hardware, we use Pentium IV 2.8 GHz and 512MB DDR RAM to provide the suitable processing for our server. We use Windows 2000 Server because it is suitable for LAN and multiple users who work inside the company. Other is client we suggest to use Pentium IV 2.0 GHz because now it is cheap and effective to use with our program and it is not outdated in term of performance. It can still support our programs in the future and it is easy to use and add more features. Our computers can support the other program requirement for the company.

Table 3-1 Hardware Requirements for Server Computer

HARDWARE	SPECIFICATION
CPU	Pentium IV 2.8 GHz
MEMORY	DDR RAM Kingston 400MHz 512 MB
HARD DISK	Maxtor 80GB S-ATA 133
CD-ROM DRIVE	LG 52x
FLOPPY DRIVE	Teac 1.35" Drive
DISPLAY ADAPTER	SparkTNT2 64MB
DISPLAY	ACER AC711 17"
UPS	Syndrome SZ801
PRINTER	EPSON Laser EPL-6200

Table 3-2 Software Requirements for Server Computer

SOFTWARE	SPECIFICATION
Operating System	Microsoft Windows 2000 Server
Application	Microsoft Visual Basic 6.0 Microsoft Office 2003 Crystal Reports 8.5

Table 3-3 Hardware Requirements for Client Computer

HARDWARE	SPECIFICATION
CPU	Pentium IV 2.8 GHz
MEMORY	DDR RAM Kingston 400MHz 256 MB
HARD DISK	Maxtor 80GB S-ATA 133
CD-ROM DRIVE	LG 52x
FLOPPY DRIVE	Teac1.35" Drive
DISPLAY ADAPTER	SparkTNT2 64MB
DISPLAY	ACER AC711 17"
UPS	Syndrome SZ801
PRINTER	EPSON Laser EPL-6200

Table 3-4 Software Requirements for Client Computer

SOFTWARE	SPECIFICATION
Operating System	Microsoft Windows 2000 Server
Application	Microsoft Visual Basic 6.0 Microsoft Office 2000

(4) Cost Analysis

Cost analysis focuses on the cost of the system derived from non-operating and operating costs.

(a) System Costs of Existing System

Table 3-5 Cost of Existing System, Baht

Cost	Year			
	1	2	3	4
<u>Fixed costs:</u>				
Hardware				
3 Client				
Pentium IV 1.7 GHz	7,500	7,500	7,500	7,500
Samsung 17"	5,200	5,200	5,200	5,200
HP Ink-Jet Printer	2,650	2,650	2,650	2,650
Syndrome SZ801	1,500	1,500	1,500	1,500
DDR RAM Kingston 400MHz 512 MB	1,850	1,850	1,850	1,850
Software				
Microsoft Window 2000 Professional	13,000	13,000	13,000	13,000
Microsoft Office 2000	15,000	15,000	15,000	15,000
	46,700	46,700	46,700	46,700
<u>Operating Costs:</u>				
Manager @2500	30,000	31,500	32,450	33,480
Finance Officer @2500	30,000	31,100	33,030	34,750
Accounting Officer @2500	30,000	32,500	34,870	35,550
Human Recourse Officer @2500	30,000	33,600	34,780	35,480
Purchase Officer @2500	30,000	30,800	31,740	32,480
Marketing Officer @ 2500	30,000	31,050	32,480	33,640
Store Officer @ 2500	30,000	30,500	30,940	32,490
Paper	1,500	1,500	1,500	1,500
Utility	50,000	50,000	50,000	50,000
Total Operating Cost	261,500	272,550	281,790	289,370
Total Cost of Existing System	308,200	319,250	328,490	336,070

(b) System Costs of Proposed System

Table 3-6 Cost of Proposed System, Baht

Cost	Year			
	1	2	3	4
<u>Fixed costs:</u>				
Hardware				
Pentium IV 2.8 Ghz	7,500	7,500	7,500	7,500
ACER AC711 17"	4,000	4,000	4,000	4,000
EPSON Laser EPL-6200	7,500	7,500	7,500	7,500
UPS Syndrome SZ801	1,500	1,500	1,500	1,500
DDR RAM Kingston 400MHz 512 MB	1,600	1,600	1,600	1,600
D-Link DGS-1008D Gigabit Switch	18,000			
LAN Cable	800			
3C509B Etherlink III ISA NICs	3,000			
Software				
Microsoft Window 2000 Professional	13,000	13,000	13,000	13,000
Visual Basic 6.0	20,000	20,000	20,000	20,000
Microsoft Office 2000	15,000	15,000	15,000	15,000
Crystal Report	5,000	5,000	5,000	5,000
Development Cost 1000 hr *100	100,000	-	-	-
Training Cost	5,000	-	-	-
Maintenance Cost	-	-	-	10,000
	201,900	75,100	75,100	85,100
<u>Operating Costs:</u>				
Manager @2500	30,000	29,500	29,350	28,700
Finance Officer @2500	30,000	29,700	29,200	28,800
Accounting Officer @2500	30,000	29,000	28,500	28,000
Human Resourse Officer @2500	30,000	29,300	29,000	28,500
Marketing Officer @ 2500	30,000	29,400	28,600	28,100
Purchase Officer @2500	-	-	-	-
Store Officer @ 2500	-	-	-	-
Paper	1,000	800	700	500
Utility	50,500	50,500	50,500	50,500
Total Operating Cost	201,500	198,200	195,850	193,100
Total Cost of Existing System	403,400	273,300	270,950	278,200

(c) The Comparison of Accumulated System Costs between Existing System and Proposed System

Table 3-7 Accumulated System Costs of Existing System for 4 Year, Baht.

Year	Total Annual Cost	Accumulated Cost
1	308,200	319,250
2	319,250	638,500
3	328,490	966,990
4	336,070	1,303,060

Table 3-8 Accumulated System Costs of Proposed System for 4 Years, Baht.

Year	Total Annual Cost	Accumulated Cost
1	403,400	403400
2	273,300	676700
3	270,950	947650
4	278,200	1225850

Table 3-9 The Comparison of Accumulated System Costs, Baht.

Year	Accumulated Existing System Cost	Accumulated Proposed System Cost
1	319250	403400
2	638500	676700
3	966990	947650
4	1303060	1225850

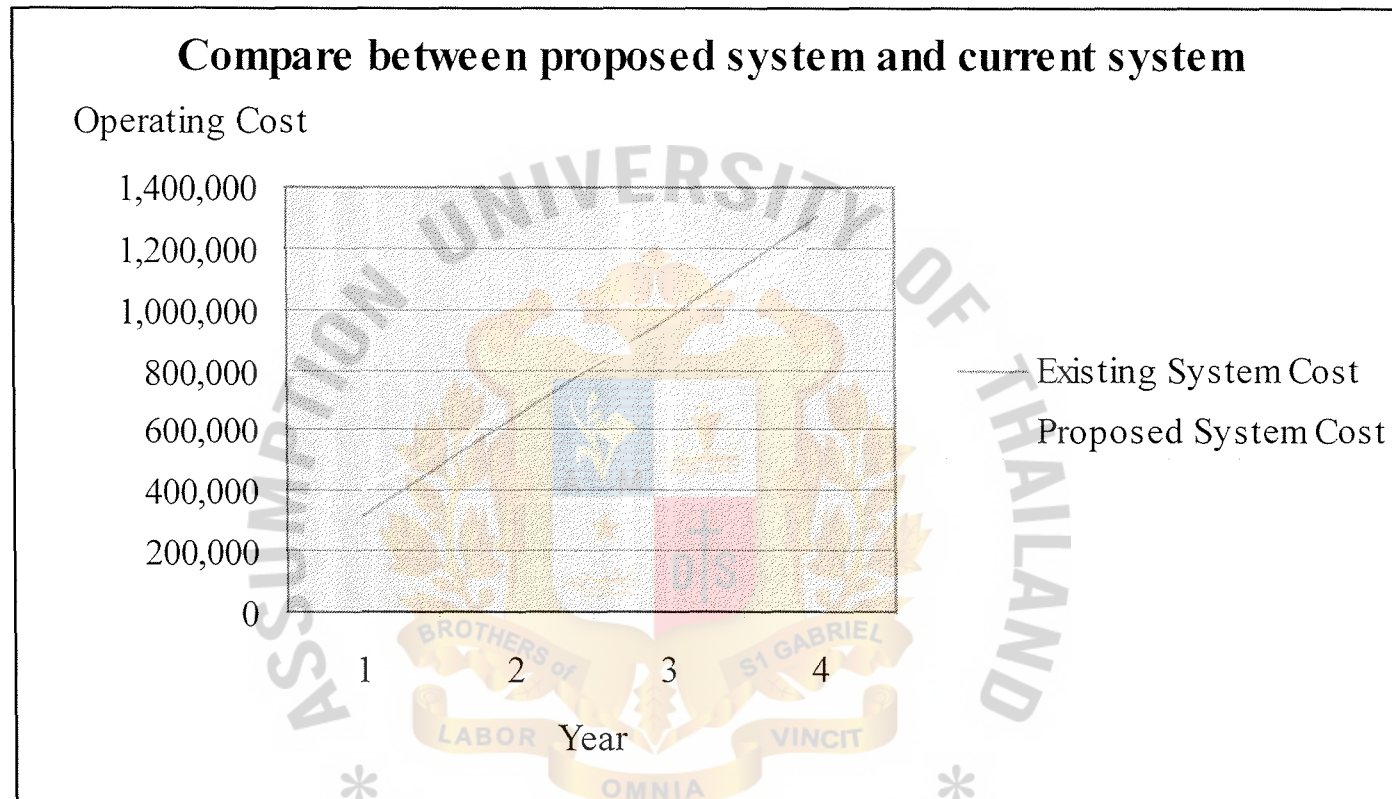


Figure 3-1 Break-even Analysis

For the existing system and new system that have Break Even analysis within 4 years new system can satisfy cost that use in this project within 2 years and 6 month. At first, this system work in cost analysis like existing system but the new system will work effectively. After Break Even Analysis this new system will work more effectively than Existing system.

At first, company has to invest money for implement system and has to buy many new equipments such as computers. There are also other fee such as monthly licensed program fee, program fee, and staff training. After implement system is done, flow data system will be more efficient, less error from human work, and reduce resource consumption.

Existing system, just human resource and hard copy data are used. This consumes money and time to search data. After implement system, resource consumption decrease and search data quicker.

Project period is about 3-4 months. Program license period is 4 years. After program license period has expired, the dummy company can contact system developer to extend period of the expired program for future work.

3.2 System Design

(1) Data Flow Diagram

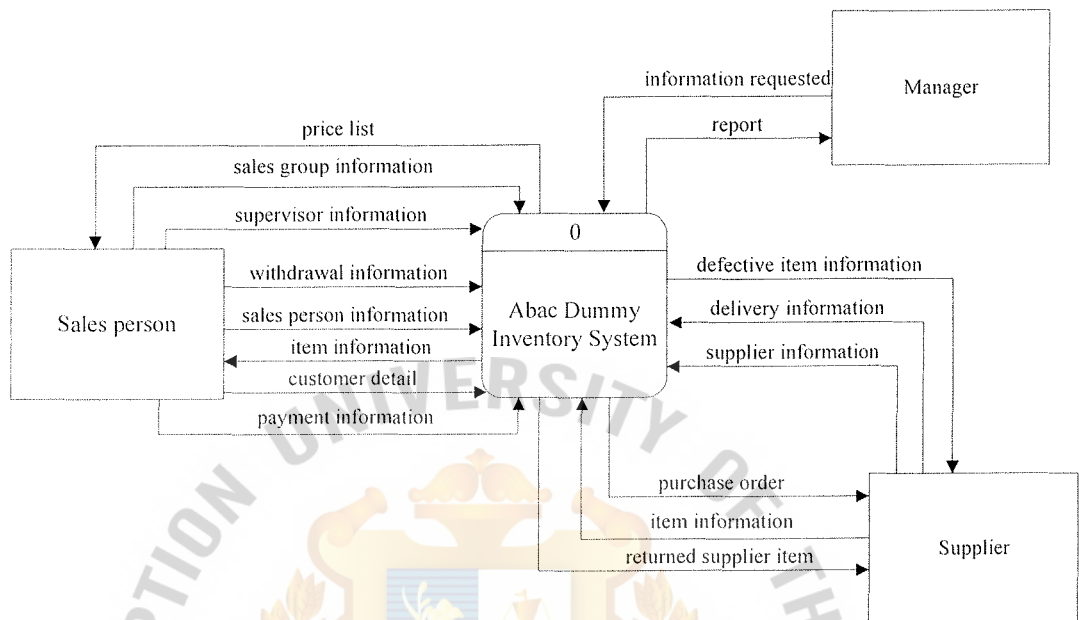


Figure 3-2 Data Flow Diagram – Context Diagram

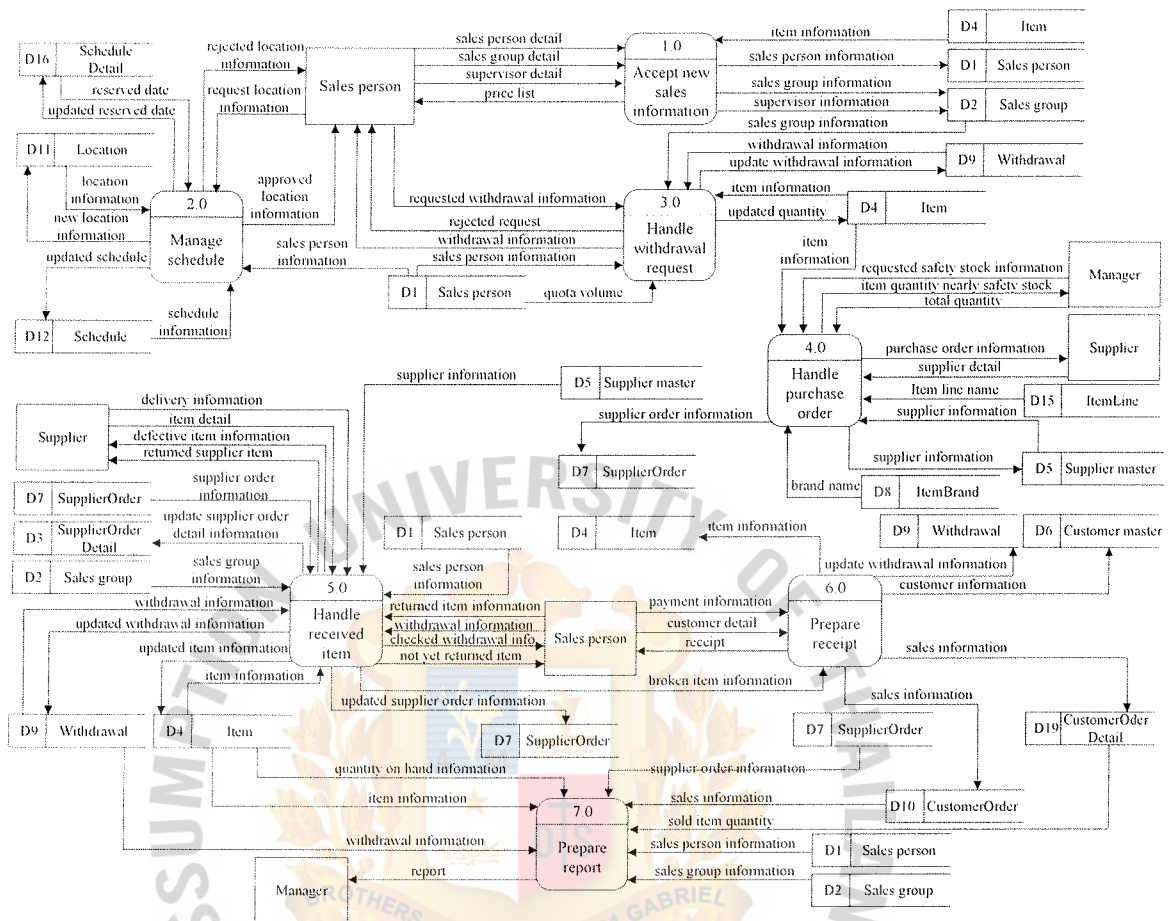


Figure 3-3 Data Flow Diagram – Level 0

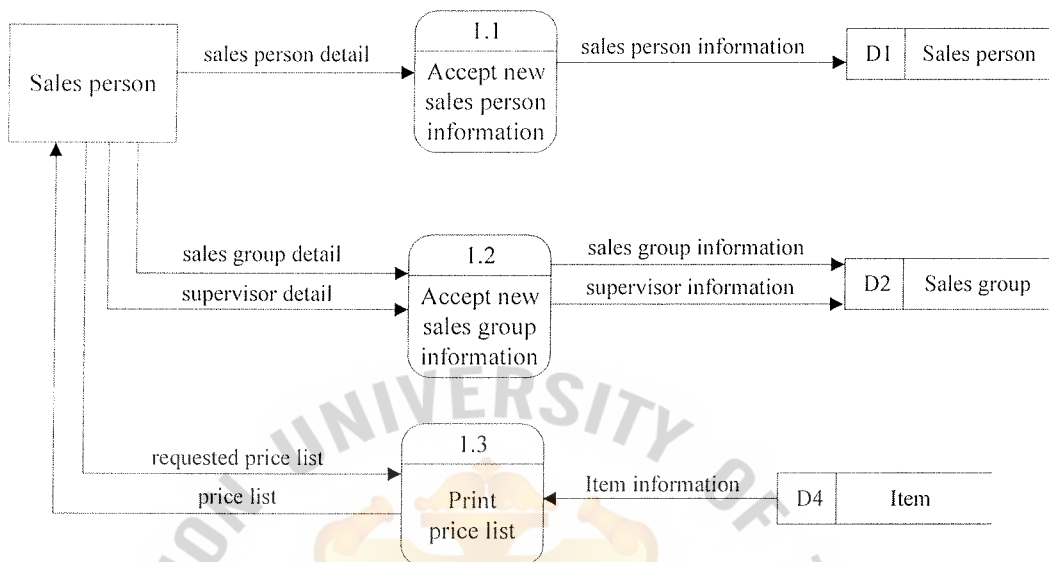


Figure 3-4 Data Flow Diagram – Level 1 for Process 1

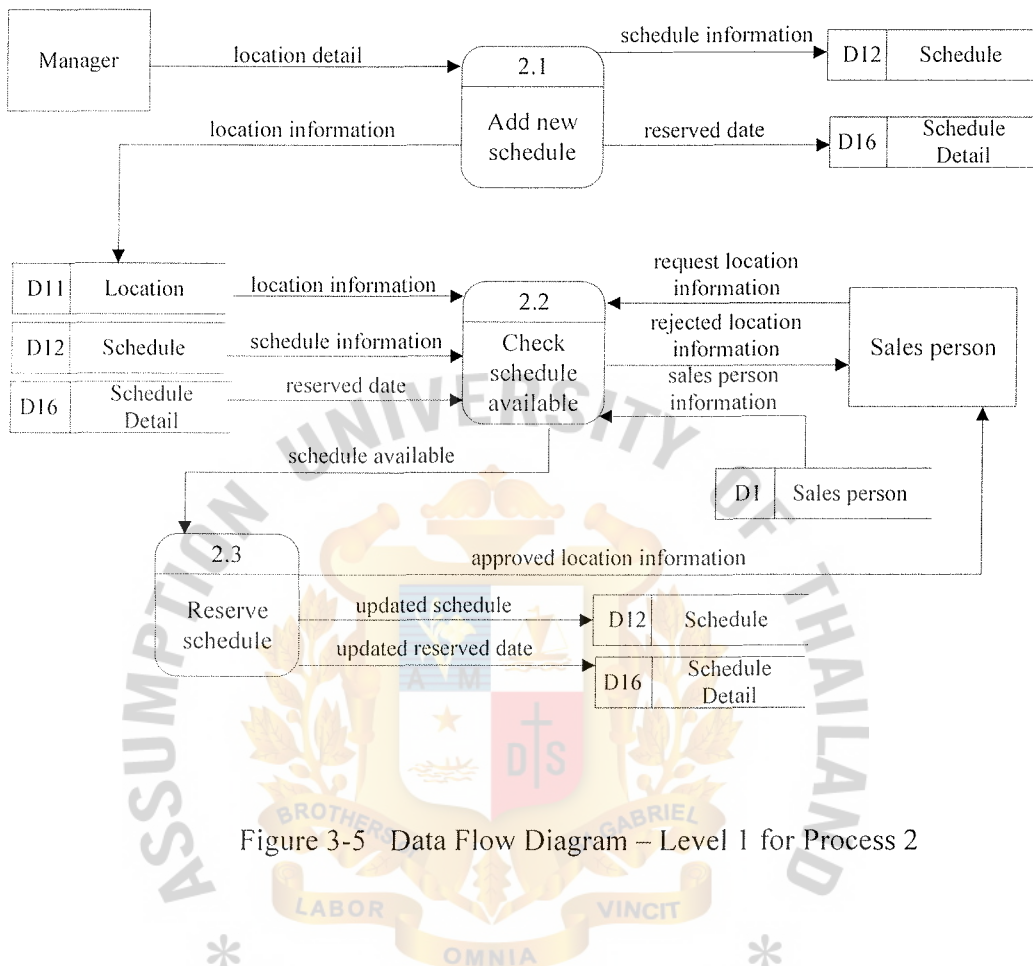


Figure 3-5 Data Flow Diagram – Level 1 for Process 2

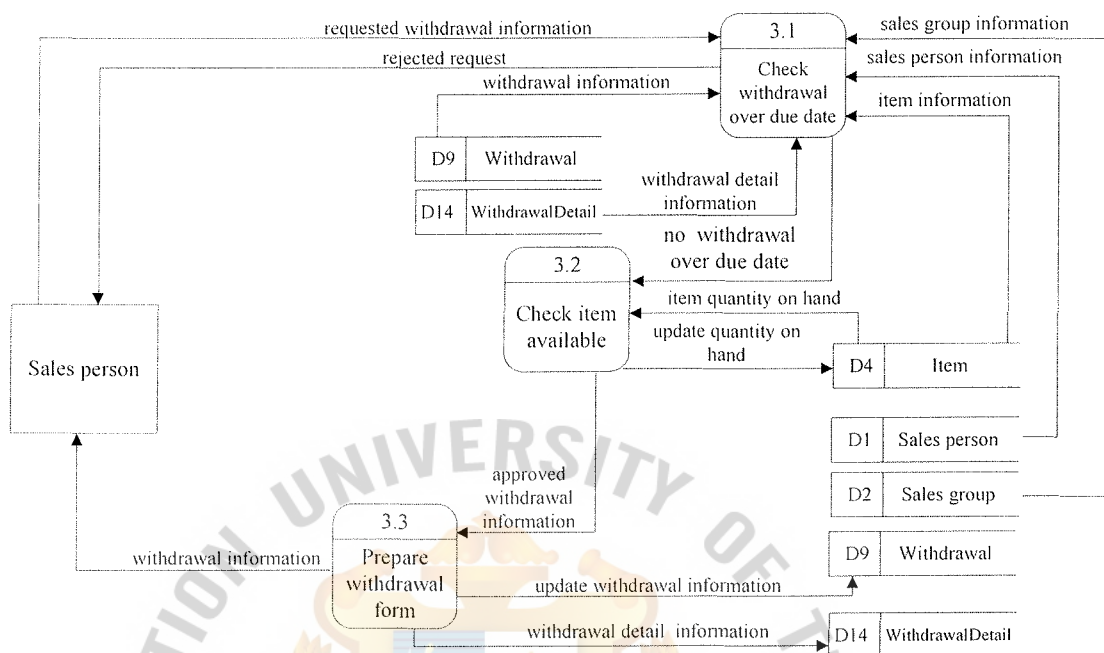


Figure 3-6 Data Flow Diagram – Level 1 for Process 3

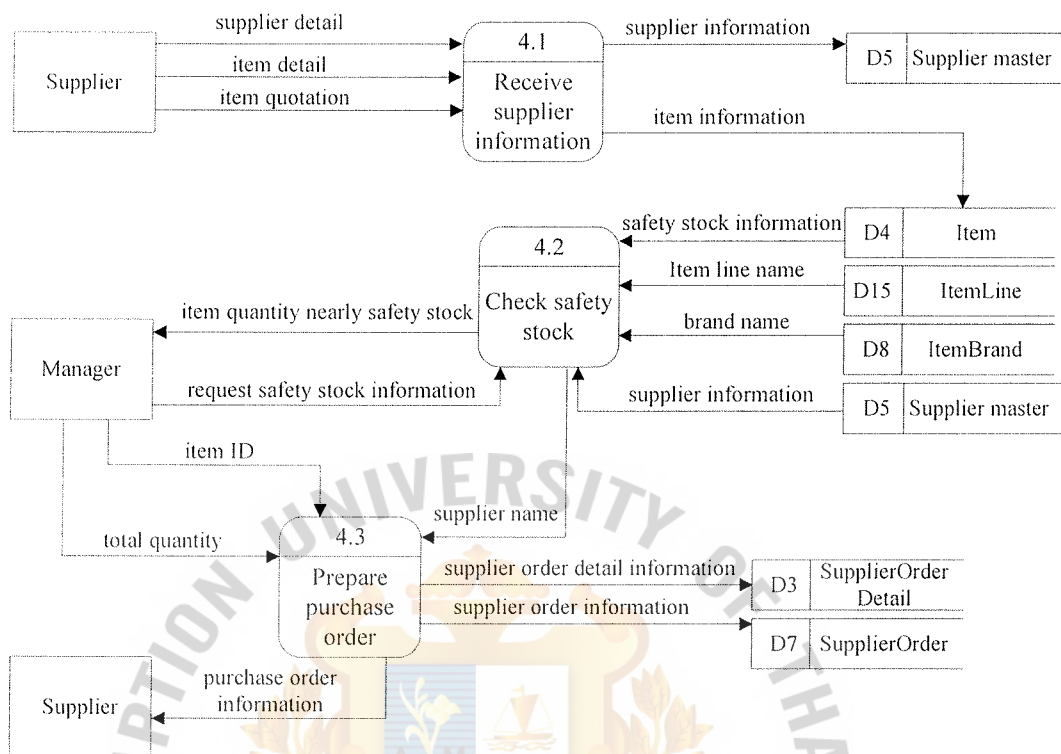


Figure 3-7 Data Flow Diagram – Level 1 for Process 4

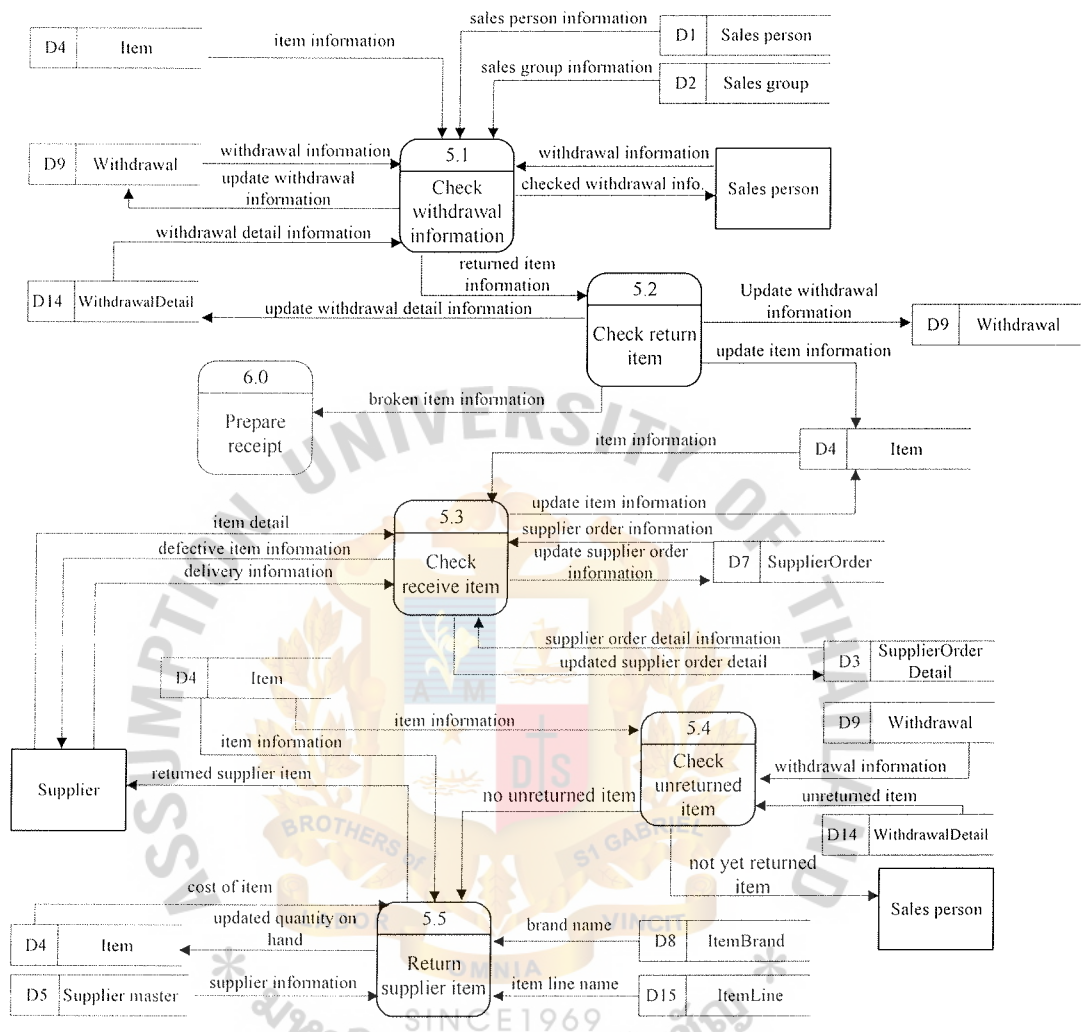


Figure 3-8 Data Flow Diagram – Level 1 for Process 5

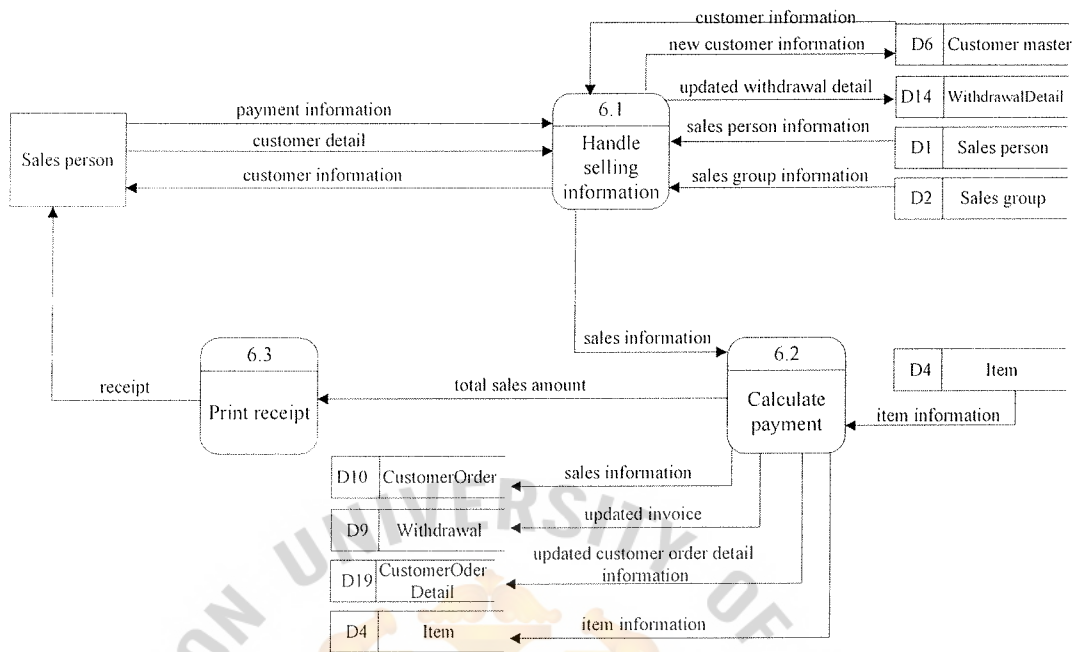


Figure 3-9 Data Flow Diagram – Level 1 for Process 6

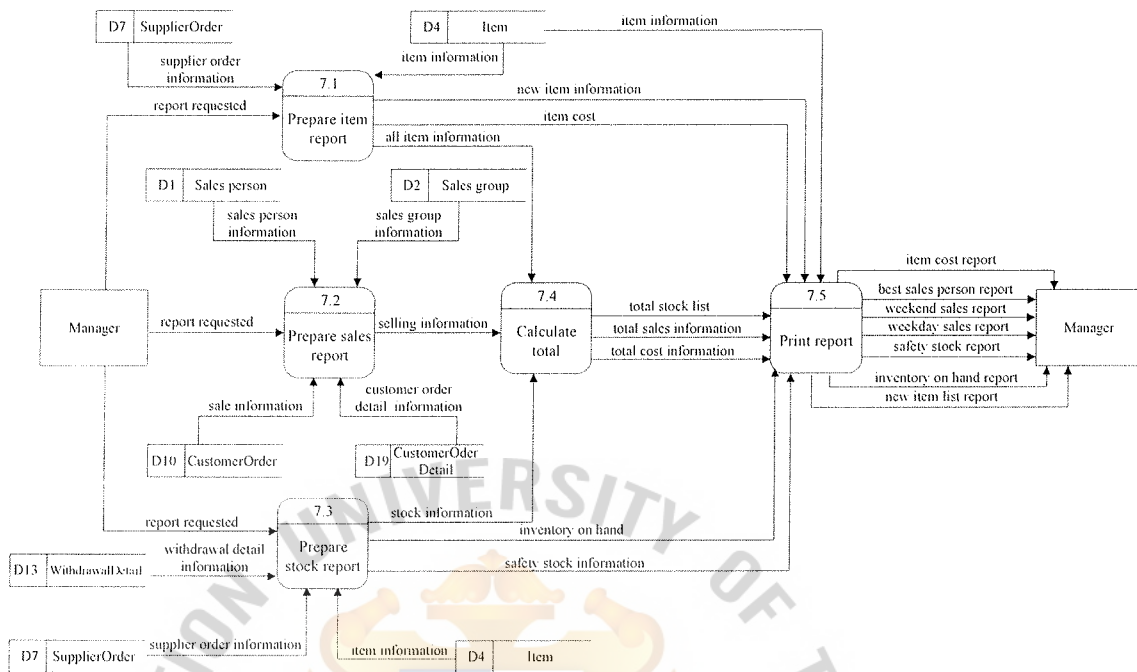


Figure 3-10 Data Flow Diagram – Level 1 for Process 7

(2) Entity-Relationship Diagram

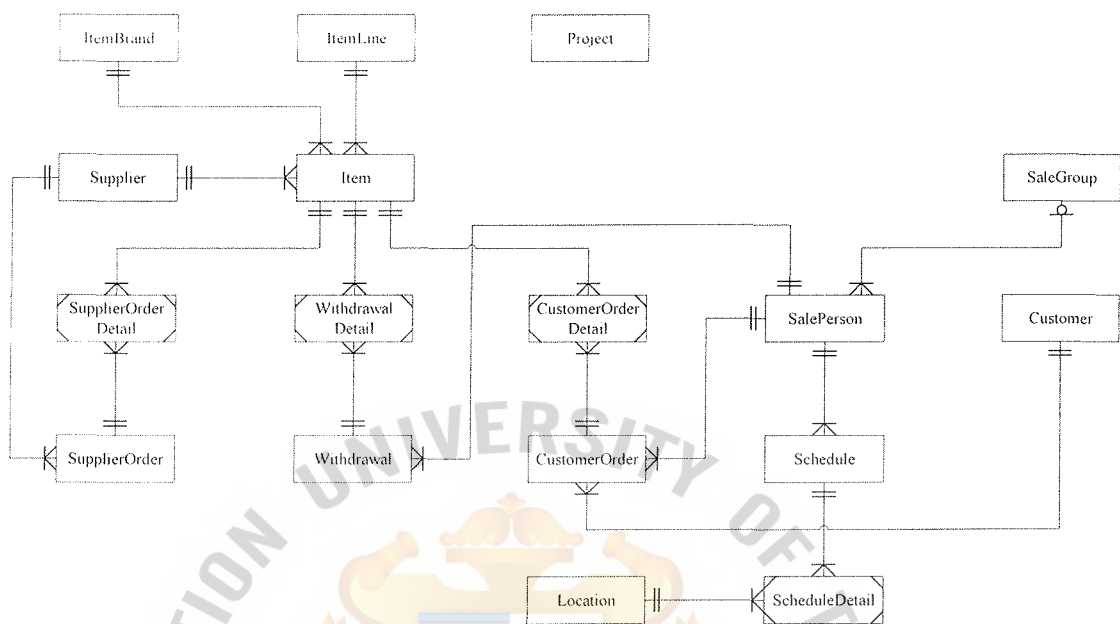


Figure 3-11 Entity-Relationship Diagram

(3) Database Design

Customer Table

Customer table keeps all customer information except anonymous customer and is used within project period. The data from customer table is used when customer receipt is issued. This table composes of information from customer. The information provide important data such as customer ID which identify individual customer as primary key, customer gender, customer's first name, customer's last name, customer address, customer telephone number, customer citizen ID and salesperson ID which one customer is belong to one salesperson.

(Appendix A Figure A-1)

Customer Order Table

Customer table keeps all sales detail which is printed in receipt. This table shows data of customer order which identified selling number as primary key, customer ID which has relationship with customer table and one customer order ID need one customer ID, the date of order, net total and salesperson ID.

(Appendix A Figure A-2)

Customer Order Detail Table

Customer order detail table keeps additional detail from customer table and the detail can identify selling number and customer ID. Customer order detail table can be referred with customer table and customer order table. This is composite table. This table shows data of customer order detail. The sub detail that is in this table are customer order ID and item ID as primary key, item line ID, price per unit, the quantity of sell each time, and net total. (Appendix A Figure A-

3)

Item Table

Item table keeps all item information which is in particular project period. The information is arranged by item ID. This table is about database of item information such as item ID as primary key, item brand ID, item name, item description, color, item in stock, item on delivery, item in back order, item during withdrawal, item safety stock number, item cost, item selling price, item line ID, item status, item receive date, and the supplier ID which is foreign key (Appendix A Figure A-4)

Item Brand Table

Item brand table keeps all sales item brand name which are in inventory in particular period such as Samsung, Sony, Nokia, etc. This table composes of information of item brand. Primary key is item brand ID, which composes of item brand name. (Appendix A Figure A-5)

Item Line Table

Item line table keeps all sales item line which are in inventory in particular period such as Car Accessories, Food and Beverage, Health, etc This table composes of information of item line. Primary key is item line ID, and it shows an item line name. (Appendix A Figure A-6)

Location Table

Location table keeps data about sales locations which are discussed and signed contract before project began. The data is for salesperson only. This table composes of information of the location ID as primary key of this table, location name, location address, location telephone number, contract of the location, start date of selling in the location, end date of selling in the location, location status

whether reserved by salesperson or not, the range between start and end date, the number of date left for reservation. (Appendix A Figure A-7)

Project Table

Project table keeps some project detail in particular period. There are GM name, expected revenue, project sales quota, etc. This table composes of detail of the entire project. The data about project ID, general manager first name, general manager last name start date of the project, end date of the project, the vat of each project, user name and password for manager to log in to the system, the project expectation for the entire project, the number of salesperson, and the quota that grant to each salesperson from project expectation divided by amount of salesperson (Appendix A Figure A-8)

Sale Group Table

Sales group table keeps group member data such as name, particular salesperson's group, etc. in particular period. Sales group application can occurred within project period. This table shows the data of sale group which has group ID as primary key of this table, group name, the maximum number of salesperson in the group, and supervisor. (Appendix A Figure A-9)

Salesperson Table

Salesperson table keeps data of applicants who apply for salesperson. The data is kept until project and date. All applicants are ABAC student. This table composes of salesperson ID which is primary key, salesperson's gender, salesperson first name, salesperson last name, salesperson citizen ID, the date of birth, address, telephone number, admit date and resigned date, quota, left quota, and group ID which is foreign key of this table. (Appendix A Figure A-10)

Schedule Table

Schedule table keeps reserved location data in project period. This table shows schedule data ID as primary key of this table and salesperson ID which specify that salesperson belong to which schedule. (Appendix A Figure A-11)

Schedule Detail Table

Schedule detail table keeps additional data which cannot keep in schedule table. It is referred with location table and schedule table. This is composite table. This table shows sub data of the schedule table such as schedule ID and location ID as primary key of this table, reserved date, and status of schedule. (Appendix A Figure A-12)

Supplier Table

Supplier table keeps data of suppliers whom the dummy company has signed contract with. This table is about database of all supplier detail such as supplier ID which is primary key of this table, supplier company name, address, telephone number, email, homepage, fax, supplier contract, contract name of the supplier staff, and supplier status whether still withdraw from the supplier company or not. (Appendix A Figure A-13)

Supplier Order Table

Supplier order table keeps all purchase order data in particular project period. It referred with supplier table. This table shows the data of supplier order. The data is about purchase order code which is primary key of this table, supplier ID which is foreign key, purchase order date, payment date of purchase order, the total of quantity multiplied by selling price from item table, and the validity for checking whether item is paid or not. (Appendix A Figure A-14)

Supplier Order Detail Table

Supplier order detail table keeps data which cannot keep in supplier order table. It is referred with supplier order table and item table. This is composite table. This table shows the data of supplier order detail. The data is purchase order code and item ID as primary key of this table, item line ID, item cost, quantity of item on the purchase order, quantity of defective item, discount , vat, and the total of order cost. (Appendix A Figure A-15)

Withdrawal Table

Withdrawal table keeps data of withdrawal. Only salesperson can withdraw item from inventory. This table is about database of withdrawal such as transaction ID use as primary key of this table, and salesperson ID specify that withdrawal transaction is belong to particular salesperson, validity check for item whether it is returned or not. (Appendix A Figure A-16)

Withdrawal Detail Table

Withdrawal detail table keeps data which cannot keep in withdrawal table. Withdrawal detail table is referred with withdrawal table and item table. This is composite table. This table about database of withdrawal detail such as transaction ID and item ID which are primary key of this table, withdrawal date, return date, withdrawn item number, returned item number, sold item number, validity check for item whether it is return or not. (Appendix A Figure A-17)

(4) Interface Design

Login Form

This form is for input user name and password to access to the program. The form is for manager class, who are only authorized people. Security system is made to prevent unauthorized access the data. (Appendix D Figure D-1)

Return Item Alert Form

If the manager login the system on the date that is one week or less before project end date, the system will pop up alert message box to tell the user how many days left before return item to supplier. (Appendix D Figure D-2)

Setup Form

This form is used for the start date of the project. User has to input the data such as vat rate that set by the government at that period, name of general manager who is in charge in the project, user name and password that is set by the manager, start date and end date of the project, and the quota that is granted to each salesperson for the entire project, but for the salesperson is automatically calculate each salesperson quota when the salesperson apply date is end. (Appendix D Figure D-3)

Shortage Stock Form

This form is shown after the user has login in to the program. The system will tell that how many item ID in the stock is less than safety stock. The user can customize by line of item or show all of the item that is lower than the safety stock (Appendix D Figure D-4)

Supplier Information Form

This form is for input the supplier information. The supplier ID is automatically run number. User has to input the supplier data such as company name, homepage and contract staff of that company, telephone number, and fax. The data should be added in the first time of login. (Appendix D Figure D-5)

Item List Form

In this form user can see and input the information of all items. User has to select the item line of the product first then the information about that line of the product will be shown. The information of product is composed of item ID, item name, brand name, supplier company name, item description, item received date, item color, cost, selling price, quantity of item on hand, on delivery and in withdrawal. The data can be added, edited or deleted. (Appendix D Figure D-6)

Purchase Order Form

This form is for input the purchase order information. The purchase order ID number will run automatically when input the new data. The supplier ID, order date and payment date is needed to input before item detail. The item ID and quantity is needed, but the price and total is automatically calculated. If the calculation is not executed, user can do it by using the calculation button. When all data is put, user has to print the purchase order by pressing a save button and there will be popup of message that ask you whether you would like to print the purchase order or not. (Appendix D Figure D-6)

Received Item Form

This form is used when there are delivered items to the company. If ordered items to the company. If ordered items type and quantity are correct, user has to confirm by pressing save button. If it is incorrect, user has to press void button. (Appendix D Figure D-8)

Unreceived Item Form

This form shows the unreceived item. User can set a range of the purchase order by input the purchase order code. (Appendix D Figure D-9)

Salesperson Information Form

This form shows salesperson information and can add a new salesperson. User has to input first and last name of the salesperson, the ID of salesperson is student ID because all salesperson is student. Date of birth, address and citizen ID is needed. The gender of the salesperson and left quota of each salesperson will be shown. (Appendix D Figure D-10)

Sale Group information Form

This form is used to assign group for each salesperson by input group ID, salesperson ID. If that salesperson is supervisor of the group, user has to check a checkbox for assigning a supervisor class. The new group can be created in this page. If any salespersons need to know about the members of the group they belong, they can ask the manager to show them by pressing show group members button. (Appendix D Figure D-11)

Unreturned Form

This form shows unreturned list of item that belongs to salesperson. User can input the salesperson ID or salesperson name to specify the list of unreturned item. (Appendix D Figure D-12)

Create Group Information Form

This form is the popup window that used to assign the group name and the number of members in that group. The default number of group members is 4 members. (Appendix D Figure D-13)

Show Group Members Form

This form is popup window that shows the particular group ID, group name, and maximum number of members in that group and also shows the group supervisor salesperson ID. If the user click on the group ID and press ok button, at lower section will show the members that belong to that group. (Appendix D Figure D-14)

Location Information Form

This form is for choosing the location to reserve schedule. The screen available for the location is used to show only unreserved date and location. User can search the location by location ID or location name. The information about the location will be shown on the bottom of screen. The schedule can be deleted by pressing the button. (Appendix D Figure D-15)

Reserved Schedule Form

This form is schedule form that reserved by salesperson who belongs to any group. User has to input salesperson ID and then group name and salesperson information will be shown automatically. When location ID is input to the system the start date and end date of the reserved location will show. A group of salesperson can input data once a day. (Appendix D Figure D-16)

Withdrawal Form

This form is used to record withdrawal information when withdraw the item from the dummy company. The manager has to input the salesperson name, then the information about the salesperson will be shown. The item ID has to be added the item withdrawal. If the salesperson needs to withdraw unreturned product, user has to input data after alert message has been shown. Then press save button to execute the system and the withdrawal report will be printed. (Appendix D Figure D-17)

Return Form

This form is used when the salesperson comes back to the dummy and returns withdrawn item. User has to input salesperson ID, then the information about salesperson will be shown. Then user has to input the number of item that salesperson has returned to the dummy. After input the data is input finish, user has to save. Then quantity on-hand in item table will be updated. (Appendix D Figure D-18)

Unreturned item Form

This form shows the unreturned list of item that salesperson has borrowed. The unreturned for salesperson can be categorized by date of return and user can see the entire unreturned item. (Appendix D Figure D-19)

Selling information Form

This form shows sales information. User has to input salesperson ID and customer ID which both has to be matched each other. Incase of anonymous customer, customer has to tell salesperson to print receipt. Sales transaction ID will run automatically. After item ID and quantity has been identified, user

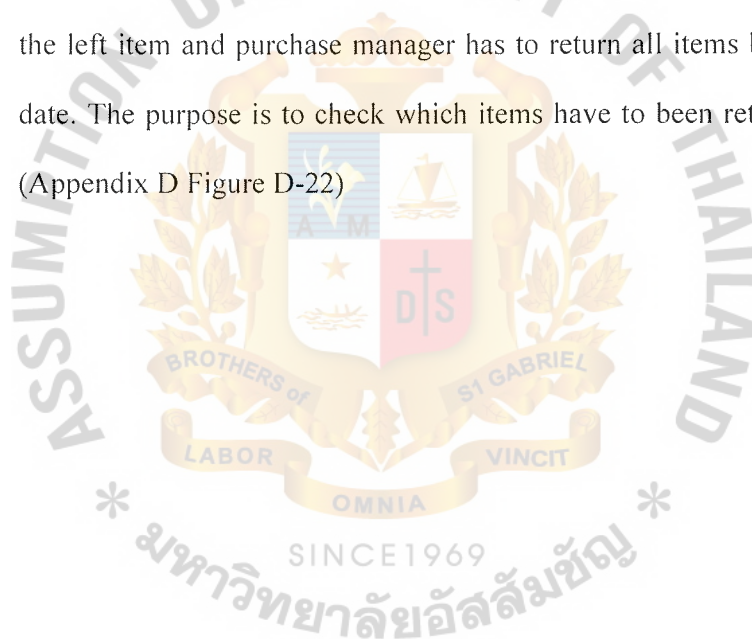
has to press the save button to execute the system and print receipt. (Appendix D Figure D-20)

Sale Transaction Form

This form shows sales transaction of all salespersons. User can set the range of sales date by using calendar box and result will be shown at the lower section. (Appendix D Figure D-21)

Returned Item to Supplier form

This form is used when project period nearly end. The screen will show the left item and purchase manager has to return all items before project end date. The purpose is to check which items have to been returned to supplier. (Appendix D Figure D-22)



(5) Management Report Design

Withdrawal

This paper is used when salesperson withdraws item from the dummy company. The purpose of this paper is about using as evidence for withdrawal item. Salesperson has to submit this form to inventory staff when he/she returns item and/or takes receipt from inventory department to customer who has bought item. (Appendix E Figure E-1)

Purchase Order

This purchase order is used when the dummy company order item from supplier. Each purchase order report is for each supplier only. The purchase order purpose is to check delivered items to the company whether the type and quantity are correct. In case of incorrect event, the old one will be voided and the new one will be issued. (Appendix E Figure E-2)

Receipt

This receipt is written when salesperson sell item to customer. Salesperson has to take receipt at the company. The purpose of this receipt is to be evidence of payment that also shows salesperson's name and shows that items are from the company. (Appendix E Figure E-3)

Inventory On-Hand

This report shows all on-hand inventory and still-deliver items. Items are categorized by item line. The report can be printed at any time in project period. The purpose of this report is that manager can check quantity of each item. (Appendix E Figure E-4)

Price List Report

This report shows item price which is categorized by brand name. The purpose of this report is to show price of all items. The price list is given to all salespersons at the beginning or start date of project period. (Appendix E Figure E-5)

Item Price Weekly Report

This report shows item price and is arranged by brand name. The purpose of this report is to give updated item price list of each week. The report is printed every Sunday and all salespersons have to take it at the company. (Appendix E Figure E-6)

Item Sold Weekly Report

This report shows sold item in particular week. Item list is arranged by sold date and item line. The purpose of this report is to report manager that which items have been sold and support decision about next withdrawal item from supplier for plant next week sale. (Appendix E Figure E-7)

Compare Sales Present Month and Previous Month Report

This report shows all sold items in present month and previous month arranged by item line and sold date. The purpose of this report is to report manager and help planning marketing next month (Appendix E Figure E-8)

Return Supplier Report

This report shows supplier's detail and returned items which are arranged by purchase order report. It is printed when there are returned item and it is on project end date. The purpose of this report is to inform manager about how many on-hand items left that will be returned. (Appendix E Figure E-9)

Salesperson Report

This report shows each salesperson's detail and sales which are arranged by selling ID. The purpose of this report is to inform salesperson about all of their sales from project start date and support salesperson's decision about next sales to reach their quota. Salesperson can check their own performance in order to improve themselves. (Appendix E Figure E-10)

All Salesperson Report

This report also show each salesperson's detail and sale which are arranged by selling ID. The purpose is to help manager check each salesperson easily about their sales performance. (Appendix E Figure E-11)

Best Salesperson Report

This report shows each salesperson about sales and salesperson ID in term of 3D pie graph, with percentage and number of sales. There is also data table under the graph. The purpose is to inform manager and salespersons that which salesperson conducts highest sales. (Appendix E Figure E-12)

Safety Stock Report

This report shows stock and safety stock of each item by item line. The purpose is to help manager check items in stock whether they are less than safety stock or not. The report can be printed any time in project period. In addition, it is decision support for manager to order items from supplier in order to keep items in stock equal or more than safety stock. (Appendix E Figure E-13)

Stock List Report

This report shows stock and item price arranged by item line. The purpose is to inform manager about value of total items available in stock and support manager's decision about order of item from supplier in order to make sales reach expectation. (Appendix E Figure E-14)

Weekday Report

This report shows sold item and sales in weekday and weekend arranged by item line and sold date. The purpose is to compare also between weekday and weekend sales, and support manager's decision that which item should be order. (Appendix E Figure E-15)

IV. SYSTEM IMPLEMENTATION

4.1 Overview of the System Implementation

For our Implementation, we use Pilot Operation. The old system of company still has to maintain existing system and proposed system together. We try to change the whole system in short period. Therefore the company has to use manual work system to cooperate with proposed system. Because ABAC Dummy Company is the company that run business in short term, so we have not much time to use to train staff in the company.

Pilot Operation will be useful for company because it takes short time period to change the system. On the other hand, we do not use Direct Cutover because of too much risk. Although Direct Cutover will take less cost than Pilot Operation, it has higher risk than Pilot Operation.

We use the proposed system in inventory department, purchasing department and human resource department. We do not use the proposed system in Finance and Account department because it will spend time to train the staff because Abac Dummy Company run its business in two and a half months. Then, Finance and Account they use the old system to do their job.

4.2 Test Plan

- Database Testing

We had developed the database since we finished studying the project, this task must be done before programming activities because database system would determine the effectiveness of the flow of activities. First, we reviewed the database design requirements for the activities in the system that is stated in the documentation. Then we developed the database from the designed specifications. After that, we input the sample data to the database to test along with the application to test the compatibilities of the database to the application and the system. We revised, corrected and improved the database design to be suitable for the system's structure.

- Application Testing

We started application testing after the application had been finished. We conducted system testing to test the application for monitoring bugs and the flow of application whether it was arranged correctly along with the system's actual activities. If the application did not work properly or produce incorrect or unsatisfied output, the programmer would correct or debug the application and test it again until it gave the correct output.

V. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

After reviewing all major operations of ABAC Dummy Company, problems associated with management in the dummy were found to be derived from reliance on manual based process. Under the current system, mistakes were often cause by human errors, this resulting in the loss of valuable time. The purposed system was needed to overcome obstruction. The new system would make full uses of valuation information technologies in order to ensure more efficiency. Their applications would allow the ABAC Dummy Company to effectively retrieving process with better access to required information, withdrawal, sales transaction can be finalized at greater pace, while lessoning burden on resources related to such task.

The proposed system was designed to take advantage of advance in current technologies. The system would effectiveness and efficiency in making any purchase, inspecting inventory and withdrawal systems. It would also reduce documentation and free up more time and resources that may better be used. More importantly, by enabling better insight into current inventory, The ABAC Dummy Company can assess whether there due sufficient product to meet requirement of withdrawal needs.

To this end, proposed system could allow operations in the ABAC Dummy Company to carry out more efficiently, by saving time use in documentation. In addition, the system would also reduce human error by staff to be more efficiently.

5.2 Recommendations

This proposed system was based Microsoft Visual Basic. The system aimed to create the suitable application for the ABAC Dummy Company. Using the system, the Dummy can create and make full use of a database, in order to improve gathering and retrieval of data required for day-to-day work.

The system should demonstrate how effective IT could allow for more informed management and better utilization at resources in a typical small-scale firm. To use the system at the highest effective, the managers need to be trained for 5 days for the program. The system is reliable for the user who training for a few days and it would more effective for the well known.

The proposed system was builded for the Abac Dummy Company, but it is not cover all departments. Accounting and financial department should have the system to support. There is no any calculation of commissions and point of each item, so the system should supported.



APPENDIX A
DATABASE DESIGN

Table A-1 Customer Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Cus_ID	Char(7)	Y	Y			PK	
2	Cus_Sex	Char(1)				M/F		
3	Cus_FName	Varchar(50)	Y					
4	Cus_Lname	Varchar(50)						
5	Cus_Address	Varchar(255)						
6	Cus_Tel	Char(11)				02-000-0000		
7	Cus_CitizenID	Char(17)	Y	Y	Y	0-0000-00000-00-0		

Table A-2 Customer Order Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	CustomerOrderID	Char(15)	Y	Y			PK	
2	Cus_ID	Char(7)	Y				FK	Customer
3	OrderDate	Date	Y			dd/mm/yyyy		
4	NetTotal	Number				*,###.##		
5	OrderFlag	Char(1)				0 = Cancellation of Customer Order, 1 = Normal		
6	SaleP_ID	Char(7)	Y				FK	SalePerson

Table A-3 Customer Order Detail Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	CustomerOrderID	Char(15)	Y				PK, FK	CustomerOrder
2	Item_ID	Varchar(20)	Y				PK, FK	Item
3	UnitPrice	Number				#,###.##		
4	Item_LineID	Text	Y					
5	ItemQuantity	Number				#,###.##		
6	Net	Number				#,###.##		



Table A-4 Item Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Item_ID	Varchar(20)	Y	Y			PK	
2	Item_BrandID	Char(2)	Y				FK	ItemBrand
3	Item_Name	Varchar(50)	Y					
4	Item_Description	Varchar(50)						
5	Item_Color	Varchar(50)						
6	Item_InStock	Number				#,###.##		
7	Item_InOrder	Number				#,###.##		
8	Item_InBO	Number				#,###.##		
9	Item_InWithdrawal	Number				#,###.##		
10	Item_Total	Number				#,###.##		
11	Item_Safety	Number				#,###.##		
12	Item_Cost	Number				#,###.##		
13	Item_SellPrice	Number						
14	Item_LineID	Char(2)	Y				FK	ItemLine
15	Item_Status	Char(1)				0 = Product Cancelled, 1 = On Sale, Normal		
16	BrandPictureFileName	Text			Y			
17	ItemPictureFileName	Text			Y			
18	IsNormalRent	Char(1)				0 = Normal Rent, 1 = Member Only, 2 = VIP only		
19	Sup_ID	Char(3)	Y					
20	Item_ReceiveDate	Date	Y			dd/mm/yyyy		

Table A-5 Item Brand Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Item_BrandID	Char(2)	Y	Y			PK	
2	Item_BrandName	Varchar(50)						

Table A-6 Item Line Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Item_LineID	Char(2)	Y	Y			PK	
2	Item_LineName	Varchar(50)						

Table A-7 Location Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Lct_ID	Char(3)	Y	Y			PK	
2	Lct_Name	Varchar(50)	Y					
3	Lct_Address	Varchar(255)						
4	Lct_Tel	Char(11)				02-000-0000		
5	Lct_Contact	Text						
6	Lct_StartDate	Date						
7	Lct_EndDate	Date						
8	Lct_Status	Char(1)				0 = Location Cancelled, 1 = Normal		
9	Lct_DateDiff	Number				The range between Start and End Date		
10	Lct_DateLeft	Number						
11	Lct_IsReservedAll	Char(1)				0 = not yet all, 1 = All is reserved		

Table A-8 Project Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Pj_ID	Char(3)	Y	Y			PK	
2	Pj_GM_FName	Varchar(50)	Y					
3	Pj_GM_LName	Varchar(51)						
4	Pj_StartDate	Date				dd/mm/yyyy		
5	Pj_EndDate	Date				dd/mm/yyyy		
6	Pj_Profit	Number				#,###.##		
7	Pj_TaxRate	Number				#,###.##		
8	Pj_UserName	Text						
9	Pj_Password	Text						
10	Pj_ExpectedSales	Text						
11	Pj_NoOfSales	Text						
12	Pj_Quota	Text						

Table A-9 Sales Group Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Group_ID	Char(3)	Y	Y			PK	
2	Group_Name	Varchar(50)						
3	Group_MaxPerson	Number				#,###		
4	Supervisor	Char(1)				0 = Not yet assigned, 1 = Assigned already		



Table A-10 Salesperson Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	SaleP_ID	Char(7)	Y	Y			PK	
2	SaleP_Sex	Char(1)				M/F		
3	SaleP_Fname	Varchar(50)						
4	SaleP_LName	Varchar(50)						
5	SaleP_NName	Varchar(20)						
6	SaleP_CitizenID	Char(17)				0-0000-00000-00-0		
7	SaleP_DOB	Date						
8	SaleP_Address	Varchar(255)						
9	SaleP_Tel	Char(11)				02-000-0000		
10	SaleP_AdmitDate	Date						
11	SaleP_ResignedDate	Date						
12	SaleP_Quota	Text						
13	SaleP_LeftQuota	Text						
14	Group_ID	Char(3)	Y		Y		FK	SaleGroup
15	PictureFileName	Text			Y			

Table A-11 Schedule Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Schedule_ID	Char(4)	Y	Y			PK	
2	SaleP_ID	Char(7)	Y				FK	

Table A-12 Schedule Detail Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Schedule_ID	Char(4)	Y	Y			PK, FK	Schedule
2	Lct_ID	Char(3)	Y				PK, FK	Location
3	ReservedDate	Date				dd/mm/yyyy		
4	Schedule_Status	Text				0 = Normal, 1 = Cancel		

Table A-13 Supplier Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	Sup_ID	Char(3)	Y	Y			PK	
2	Sup_Company	Varchar(255)	Y					
3	Sup_Address	Varchar(255)						
4	Sup_Tel	Char(11)				02-000-0000		
5	ContactName1	Varchar(50)						
6	ContactName2	Varchar(50)			Y			
7	Email	Varchar(255)			Y			
8	Homepage	Varchar(255)			Y			
9	Fax	Char(11)				02-000-0000		
10	Sup_Contact	Text						
11	Sup_Status	Char(1)				0 = Cancel Contract , 1 = still have a contract		

Table A-14 Supplier Order Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	POCode	Char(15)	Y	Y			PK	
2	Sup_ID	Char(3)	Y				FK	Supplier
3	OrderDate	Date				dd/mm/yyyy		
4	ReceiveDate	Date				dd/mm/yyyy		
5	DueDate	Date				dd/mm/yyyy		
6	NetTotal	Number				#,###.##		
7	OrderFlag	Char(1)				0 = Supplier Order Cancelled, 1 = Normal		
8	IsReceived	Char(1)				0 = Not yet received, 1 = Received Already		
9	IsPaid	Char(1)				0 = Unpaid, 1 = Paid Already		

Table A-15 Supplier Order Detail Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	POCode	Char(15)	Y				PK, FK	SupplierOrder
2	Item_ID	Varchar(20)	Y				PK, FK	Item
3	Item_LineID	Text	Y					
4	Cost	Number				#,###.##		
5	Quantity	Number				#,###		
6	DefectiveQty	Number				#,###.##		
7	Discount	Number				#,###.##		
8	VAT	Number				#,###.##		
9	Net	Number				#,###.##		

Table A-16 Withdrawal Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	TransID	Char(7)	Y	Y			PK	
2	SaleP_ID	Char(8)	Y				FK	SalePerson
3	IsReturnAll	Char(1)				0 = Not yet all returned, 1 = All is returned		

Table A-17 Withdrawal Detail Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key	FK Referenced Check
1	TransID	Char(7)	Y				PK, FK	Withdrawal
2	Item_ID	Varchar(20)	Y				PK, FK	Item
3	WithdrawnDate	Date				dd/mm/yyyy		
4	ReturnDate	Date				dd/mm/yyyy		
5	WithdrawnNum	Number				#,###		
6	ReturnNum	Number				#,###		
7	SoldNum	Number						
8	AmountReceived	Number				#,###.##		
9	IsReturn	Char(1)				0 = All is returned, 1 = Not all is returned		



APPENDIX B
PROCESS SPECIFICATION

Table B-1 Process Specification for Process 1.0

Process Name:	Accept new sales information
Data In:	(1) sale person detail (2) sales group detail (3) supervisor detail (4) item information
Data Out:	(1) sales person information (2) sales group information (3) supervisor information (4) price list
Process:	(1) Get new sales person detail and assign new sales person information (2) Get new sales group detail and assign new sales group information (3) Get supervisor detail and assign supervisor information (4) Print price list and send to sales person
Attachment:	(1) Sales person (2) Data Store D1 (3) Data Store D2 (4) Data Store D4

Table B-2 Process Specification for Process 1.1

Process Name:	Accept new sales person information
Data In:	(1) sales person detail
Data Out:	(1) sales person information
Process:	(1) Get new sales person detail and assign new sales person information
Attachment:	(1) Sales person (2) Data Store D1

Table B-3 Process Specification for Process 1.2

Process Name:	Accept new sales group information
Data In:	(1) sales group detail (2) supervisor detail
Data Out:	(1) sales group information (2) supervisor information
Process:	(1) Get new sales group detail and assign new sales group information (2) Get supervisor detail and assign supervisor information
Attachment:	(1) Sales person (2) Data Store D2

Table B-4 Process Specification for Process 1.3

Process Name:	Print price list
Data In:	(1) requested price list (2) item information
Data Out:	(1) price list
Process:	(1) Receive request price list (2) Get item information (3) Print price list
Attachment:	(1) Sales person (2) Data Store D4



Table B-5 Process Specification for Process 2.0

Process Name:	Manage schedule
Data In:	<ul style="list-style-type: none"> (1) request location information (2) location information (3) sales group information (4) schedule information (5) reserve date
Data Out:	<ul style="list-style-type: none"> (1) rejected location information (2) approved location information (3) updated schedule (4) update reserve date
Process:	<ul style="list-style-type: none"> (1) Receive request location and date (2) Check schedule of request location (3) Approve request (4) Update location and schedule that was reserved (5) Reject request
Attachment:	<ul style="list-style-type: none"> (1) Sales person (2) Data Store D1 (3) Data Store D11 (4) Data Store D12 (5) Data Store D16

Table B-6 Process Specification for Process 2.1

Process Name:	Add new schedule
Data In:	(1) location detail
Data Out:	(1) location information (2) reserved date (3) schedule information
Process:	(1) Receive location detail and schedule detail. (2) Add all detail in to data store.
Attachment:	(1) Manager (2) Data Store D11 (3) Data Store D12 (4) Data Store D16

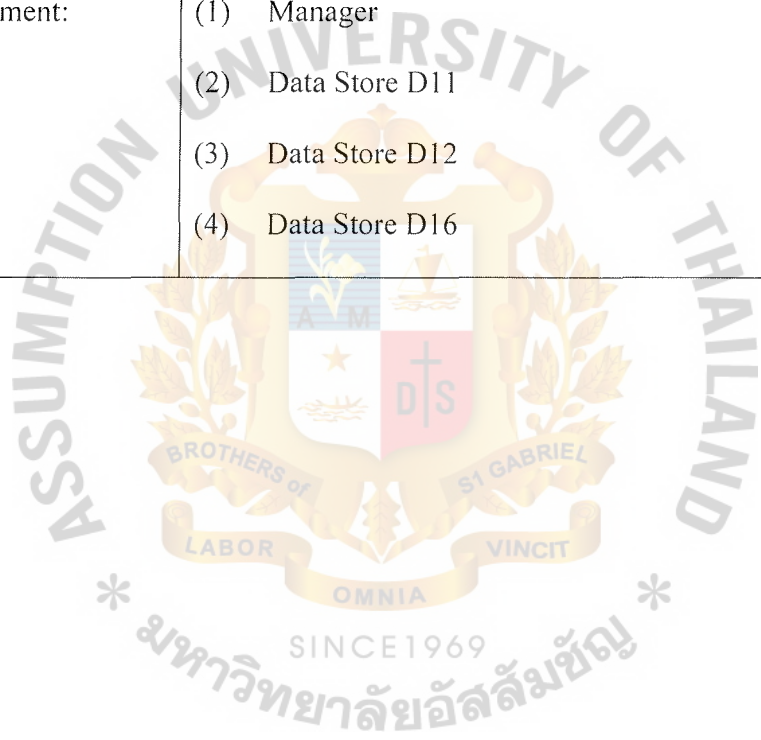


Table B-7 Process Specification for Process 2.2

Process Name:	Check schedule available
Data In:	(1) request location information (2) location information (3) sales person information (4) reserve date
Data Out:	(1) schedule available (2) rejected location information
Process:	(1) Receive request location and date from sales person. (2) Check schedule of request location. (3) Approve request. (4) Reject request ,if the location not available
Attachment:	Sales person Data Store D11 Data Store D12 Data Store D16 Process 2.3

Table B-8 Process Specification for Process 2.3

Process Name:	Reserve schedule
Data In:	(1) schedule available
Data Out:	(1) update reserve date (2) updated schedule (3) approved location information
Process:	(1) Get date of schedule that available. (2) Update schedule.
Attachment:	Sales person Data Store D1 Data Store D12 Data Store D16



Table B-9 Process Specification for Process 3.0

Process Name:	Handle withdrawal request
Data In:	(1) request withdrawal information (2) sales group information (3) withdrawal information (4) item information (5) quota volume (6) sales person information
Data Out:	(1) rejected request (2) withdrawal information (3) updated quantity (4) updated withdrawal information
Process:	(1) Receive withdrawal information (2) Check withdrawal over due date. If over due dated, request will be rejected. (3) Check item that it is available or not. If it has shortage, then back order will be updated. (4) Approved withdrawal information will be sent to prepare withdrawal. (5) Update all of information.
Attachment:	(1) Sales person (2) Data Store D1 (3) Data Store D2 (4) Data Store D4 (5) Data Store D9

Table B-10 Process Specification for Process 3.1

Process Name:	Check withdrawal over due date
Data In:	<ul style="list-style-type: none"> (1) request withdrawal information (2) item information (3) withdrawal information (4) withdrawal detail information (5) sales group information (6) sales person information
Data Out:	<ul style="list-style-type: none"> (1) rejected request (2) no withdrawal over due date
Process:	<ul style="list-style-type: none"> (1) Receive withdrawal information from sales person or sales group. (2) Check whether that sales person has withdrawal over due date or not. (3) If that sales person has withdrawal that over due date, process will reject request of that sales person. (4) If that sales person has not withdrawal that over due date, process will send request to check item available.
Attachment:	<ul style="list-style-type: none"> (1) Sales person (2) Data Store D1 (3) Data Store D2 (4) Data Store D9 (5) Data Store D14 (6) Process 3.2

Table B-11 Process Specification for Process 3.2

Process Name:	Check item available
Data In:	no withdrawal over due date item quantity on hand
Data Out:	(1) shortage stock information (2) approved withdrawal information
Process:	(1) Get request form sales person that has no withdrawal over due date (2) Check item quantity on hand whether it enough for withdrawal or not. (3) If enough, process will send information to print withdrawal from. (4) If not enough, process will send information to process purchase order.
Attachment:	(1) Data Store D4 (2) Process 3.1 (3) Process 3.3 (4) Process 4.0

Table B-12 Process Specification for Process 3.3

Process Name:	Prepare withdrawal form
Data In:	(1) approved withdrawal information
Data Out:	(1) withdrawal information (2) withdrawal detail information (3) update withdrawal information
Process:	(1) Get withdrawal information to prepare withdrawal. (2) Record new withdrawal information. (3) Send withdrawal information to sales person.
Attachment:	(1) Sales person (2) Data Store D9 (3) Data Store D14 (4) Process 3.3

Table B-13 Process Specification for Process 4.0

Process Name:	Handle purchase order
Data In:	(1) request safety stock information (2) item information (3) item line name (4) supplier detail (5) supplier information (6) brand name (7) total quantity
Data Out:	(1) item quantity nearly safety stock (2) supplier order information (3) supplier information
Process:	(1) Get supplier information and update information. (2) Check safety stock. (3) Send item quantity nearly safety stock to manager to calculate the total. (4) Get total quantity from manager. (5) Send purchase order to supplier.
Attachment:	(1) Supplier (2) Data Store D4 (3) Data Store D5 (4) Data Store D7 (5) Process 3.0

Table B-14 Process Specification for Process 4.1

Process Name:	Receive supplier information
Data In:	(1) supplier detail (2) item detail (3) item quotation
Data Out:	(1) supplier information (2) item information
Process:	(1) Get supplier detail and item detail. (2) Record both in formations.
Attachment:	(6) Supplier (7) Data Store D4 (8) Data Store D5

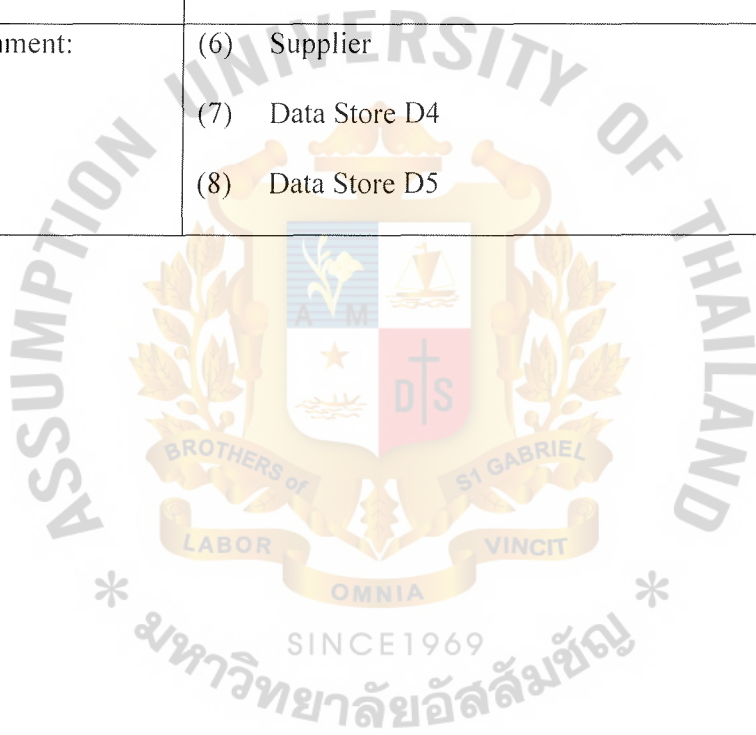


Table B-15 Process Specification for Process 4.2

Process Name:	Check safety stock
Data In:	<ul style="list-style-type: none"> (1) safety stock information (2) supplier information (3) item line name (4) brand name (5) request safety stock information
Data Out:	<ul style="list-style-type: none"> (1) item quantity nearly safety stock (2) item information
Process:	<ul style="list-style-type: none"> (1) Check safety stock of each item. (2) Get supplier of each item. (3) Send quantity that nearly safety stock to manager. (4) Send all information to print purchase order.
Attachment:	<ul style="list-style-type: none"> (1) Manager (2) Data Store D4 (3) Data Store D5 (4) Data Store D8 (5) Data Store D15 (6) Process 4.3

Table B-16 Process Specification for Process 4.3

Process Name:	Prepare supplier order
Data In:	(1) total quantity (2) item ID (3) supplier name
Data Out:	(1) supplier order detail information (2) supplier order information
Process:	(1) Get total quantity and item information. (2) Record all purchase order information. (3) Send purchase order information to supplier.
Attachment:	(1) Supplier (2) Manager (3) Data Store D3 (4) Data Store D7 (5) Process 4.2

Table B-17 Process Specification for Process 5.0

Process Name:	Handle received item
Data In:	(1) item detail (2) item information (3) supplier information (4) supplier order information (5) sales person information (6) sales group information (7) withdrawal information (8) sales person information (9) supplier order information (10) delivery information
Data Out:	(1) defective item (2) updated supplier order item (3) updated withdrawal (4) updated item information (5) updated supplier order information (6) checked withdrawal information (7) returned supplier item (8) not yet returned item (9) broken item information
Process:	(1) Receive withdrawal from sales person and check whether it correct or not. (2) Get returned item from sales person and check that has broken or not. (3) If item has broken, sales person will be pay for that broken item. (4) Get item from supplier and check whether it correct or not., unless will be returned to supplier and store defective information. (5) Return item to supplier after finish project Abac dummy company.
Attachment:	(1) Sales person (2) Supplier (3) Data Store D1 (4) Data Store D2 (5) Data Store D3 (6) Data Store D4 (7) Data Store D5 (8) Data Store D7 (9) Data Store D9 (10) Process 6.0

Table B-18 Process Specification for Process 5.1

Process Name:	Check withdrawal information
Data In:	(1) withdrawal information (2) withdrawal detail information (3) item information (4) sales person information (5) sales group information
Data Out:	(1) updated withdrawal information (2) checked withdrawal (3) return item information
Process:	(1) Receive withdrawal from sales person and check with record that it same or not. (2) If sales person return item not correct, that withdrawal will returned to sales person. (3) If withdrawal correct, then check item process will begin.
Attachment:	(1) Sales person (2) Data Store D9 (3) Data Store D14 (4) Process 5.2

Table B-19 Process Specification for Process 5.2

Process Name:	Check return item
Data In:	(1) return item information
Data Out:	(1) return information (2) update withdrawal information (3) update item information (4) broken item information
Process:	(1) Check item that broken or not. (2) If item broken, sales person must pay for that item. (3) Update withdrawal that sales person returned. (4) Update quantity of item in to stock. (5) Record return of sales person.
Attachment:	(1) Data Store D4 (2) Data Store D9 (3) Data Store D14 (4) Process 5.1 (5) Process 6.0

Table B-20 Process Specification for Process 5.3

Process Name:	Check receive item
Data In:	(1) supplier order information (2) item detail (3) delivery information (4) item information (5) supplier order detail information
Data Out:	(1) update supplier order information (2) defective item information (3) update item information (4) updated supplier order detail item
Process:	(1) Get item from supplier and record item information. (2) Get delivery information (3) Check whether delivery item and supplier order that not same or defective, process will be record defective information. (4) Update new item information and item quantity.
Attachment:	(1) Supplier (2) Data Store D3 (3) Data Store D4 (4) Data Store D7

Table B-21 Process Specification for Process 5.4

Process Name:	Check unreturned item
Data In:	(1) item information (2) withdrawal information (3) unreturned item
Data Out:	(1) no unreturned item (2) not yet returned item
Process:	(1) Check item quantity that sales person withdrawal and not return yet.
Attachment:	(1) Data Store D3 (2) Data Store D4 (3) Data Store D9 (4) Data Store D14 (5) Process 5.6

Table B-22 Process Specification for Process 5.5

Process Name:	Return supplier item
Data In:	(1) item information (2) no unreturned item (3) cost of item (4) supplier information (5) brand name (6) item line name
Data Out:	(1) returned supplier item (2) updated quantity on hand
Process:	(1) Get all information of item that will be returned to supplier. (2) Send all item that is due to supplier. (3) Update stock. (4) Record item that returned to supplier.
Attachment:	(1) Supplier (2) Data Store D4 (3) Data Store D5 (4) Data Store D8 (5) Data Store D15 (6) Process 5.4

Table B-23 Process Specification for Process 6.0

Process Name:	Prepare receipt
Data In:	(1) payment information (2) customer detail (3) broken item information
Data Out:	(1) item information (2) updated withdrawal information (3) customer information (4) updated supplier order detail (5) update customer order detail (6) sales information (7) receipt
Process:	(1) Get payment information and customer detail (2) Send sales information to calculate total sale. (3) Print receipt to sales person (4) Record all of information.
Attachment:	(1) Sales person (2) Data Store D3 (3) Data Store D4 (4) Data Store D6 (5) Data Store D9 (6) Data Store D10 (7) Process 5.0

Table B-24 Process Specification for Process 6.1

Process Name:	Handle selling information
Data In:	(1) payment information (2) customer detail (3) customer information (4) sales person information (5) sales group information
Data Out:	(1) new customer information (2) updated withdrawal detail (3) sales information (4) customer information
Process:	(1) Get payment information from sales person. (2) Get customer detail from sales person. (3) Record information.
Attachment:	(1) Sales person (2) Data Store D1 (3) Data Store D2 (4) Data Store D6 (5) Data Store D14 (6) Process 6.2

Table B-25 Process Specification for Process 6.2

Process Name:	Calculate payment
Data In:	(1) sales information (2) item information
Data Out:	(1) total sales amount (2) sales information (3) updated withdrawal (4) updated customer order detail (5) item information
Process:	(1) Receive sales information. (2) Check price of item. (3) Calculate total sales amount. (4) Update all sale information.
Attachment:	(1) Data Store D4 (2) Process 6.1 (3) Process 6.3 (4) Data Store D9 (5) Data Store D10 (6) Data Store D19 (7) Process 6.1

Table B-26 Process Specification for Process 6.3

Process Name:	Print receipt
Data In:	(1) total sales amount
Data Out:	(1) receipt
Process:	(1) Receive total sales amount. (2) Print receipt to sales person. (3) Record information of selling.
Attachment:	(1) Sales person (2) Process 6.2



Table B-27 Process Specification for Process 7.0

Process Name:	Prepare report
Data In:	(1) quantity on hand information (2) supplier order information (3) sales information (4) sold item quantity (5) sales person information (6) sales group information (7) withdrawal information (8) item information
Data Out:	(1) report
Process:	(1) Generate new item list report (2) Generate item cost report (3) Generate weekday sales report (4) Generate weekend sales report (5) Generate best sales person report (6) Generate inventory report (7) Generate inventory on hand report
Attachment:	(1) Management team (2) Data Store D1 (3) Data Store D2 (4) Data Store D4 (5) Data Store D7 (6) Data Store D9 (7) Data Store D10 (8) Data Store D16

Table B-28 Process Specification for Process 7.1

Process Name:	Prepare item report
Data In:	(1) report request (2) item information (3) supplier order information
Data Out:	(1) all item information (2) new item information (3) item cost
Process:	(1) Generate new item list report (2) Generate item cost report
Attachment:	(1) Data Store D4 (2) Data Store D7 (3) Process 7.4

Table B-29 Process Specification for Process 7.2

Process Name:	Prepare sales report
Data In:	(1) report request (2) sales person information (3) sales group information (4) sales information (5) customer order detail information
Data Out:	(1) selling information
Process:	(1) Get information of sales person and sales group. (2) Get sale information. (3) Send all selling information to calculate total.
Attachment:	(1) Manager (2) Data Store D1 (3) Data Store D2 (4) Data Store D10 (5) Data Store D19 (6) Process7.4

Table B-30 Process Specification for Process 7.3

Process Name:	Prepare stock report
Data In:	(1) report request (2) withdrawal detail information (3) supplier order information (4) item information
Data Out:	(1) all stock information (2) inventory on hand (3) safety stock information
Process:	(1) Generate inventory on hand report. (2) Generate safety stock report. (3) Send all stock information to calculate total stock list.
Attachment:	(1) Data Store D4 (2) Data Store D7 (3) Data Store D13 (4) Process 7.4

Table B-31 Process Specification for Process 7.4

Process Name:	Calculate total
Data In:	(1) all item information (2) selling information (3) all stock information
Data Out:	(1) total stock list (2) total sales information (3) total cost information
Process:	(1) Calculate total stock list. (2) Calculate total sales information. (3) Calculate total cost information.
Attachment:	(1) Process7.1 (2) Process7.2 (3) Process7.3 (4) Process7.5

Table B-32 Process Specification for Process 7.5

Process Name:	Print report
Data In:	(1) item information (2) total stock list (3) total sales information (4) total cost information
Data Out:	(1) weekday sales report (2) weekend sales report (3) best sales person report (4) defective item report
Process:	(1) Get item information, total stock list, total sales information and total cost information to generate reports. (2) Generate new item list report (3) Generate item cost report (4) Generate weekday sales report (5) Generate weekend sales report (6) Generate best sales person report (7) Generate inventory report (8) Generate inventory on hand report
Attachment:	(1) Manager (2) Data Store D4 (3) Process 7.4



APPENDIX C
DATA DICTIONARY

Table C-1 Data Dictionary of Order Processing System

Data Item	Meaning
approved location information	Location that have not reserve yet. Lct_ID + Lct_Name + Lct_Address + Lct_Tel + Lct_Contact + Lct_StartDate + Lct_EndDate + Lct_Status
approved withdrawal information	Information after manager allow to make withdrawal. TransID + SaleP_ID + Item_ID + WithdrawnDate + ReturnDate + WithdrawnNum
best sales person report	Report that show which sales persons that conducts highest sales. SaleP_ID + SaleP_Fname + SaleP_LName + OrderDate + UnitPrice + ItemQuantity
brand name	Item_BrandName
broken item information	inform manager and sales persons that which sales person conducts highest sales. Item_ID + Item_Name + SaleP_ID + SaleP_Fname + SaleP_Lname
checked withdrawal information	Telling salesperson that item returned or not. TransID + SaleP_ID + SaleP_Fname + SaleP_Lname + WithdrawnDate + IsReturnAll
cost of item	Item_Cost
customer detail	Sales person give detail after solded item. Cus_Sex + Cus_FName + Cus_Lname + Cus_Address + Cus_Tel + Cus_CitizenID + SaleP_ID
customer information	Information afte got from sales person. Cus_ID + Cus_Sex + Cus_FName + Cus_Lname +

customer order	<p>Cus_Address + Cus_Tel + Cus_CitizenID + SaleP_ID</p> <p>Information of customer after recorded.</p> <p>CustomerOrderID + Cus_ID + OrderDate + NetTotal</p>
cusromer order detail	<p>All detail of buying item</p> <p>CustomerOrderID + Item_ID + UnitPrice + ItemQuantity</p>
defective item	<p>Item that out of order or broken during deliver.</p> <p>DefectiveQty</p>
defective item report	<p>Report that show information of defective item.</p> <p>allias to DefectiveQty</p>
delivery information	<p>Information that get from supplier with receiving item.</p> <p>Sup_Company + Sup_Address + Sup_Tel +</p> <p>Item_BrandName + Item_Name + Quantity + Cost +</p> <p>OrderDate + ReceiveDate</p>
inventory on hand report	<p>Report that manager can check quantity of each item.</p> <p>Item_ID + Item_Name + Item_Safety + Item_InOrder</p>
item detail	<p>Detail of item that get from supplier.</p> <p>Item_BrandName + Item_Name + Item_Description +</p> <p>Item_Color + Cost + Quantity + ReceiveDate</p>
item ID	Item_ID
item information	<p>All informationof item after recorded.</p> <p>Item_ID + Item_BrandName + Item_Name +</p> <p>Item_Description</p> <p>+ Item_Color + Cost + Quantity + ReceiveDate</p>
item line name	Item_LineName
item price report	<p>Repot that show which items have been sold and support</p> <p>decision about next withdrawal item from supplier.</p> <p>Item_ID + Item_Name + Item_Cost</p>

item quantity nearly safety stock	<p>Quntity of item that has more than safety stock very little or equal safety stock.</p> <p>Item_ID + Item_Name + Item_Safety + Item_InStock</p>
item quotation	<p>Price list from supplier.</p> <p>Item_Brand + Name + Item_Name + Item_Description + Item_Color + Cost</p>
location detail	<p>Detial of location that due to open booth.</p> <p>Lct_Name + Lct_Address + Lct_Tel + Lct_Contact + Lct_StartDate + Lct_EndDate</p>
location information	<p>All information of location after recorded.</p> <p>Lct_ID + Lct_Name + Lct_Address + Lct_Tel + Lct_Contact + Lct_StartDate + Lct_EndDate</p>
new customer information	<p>Information of customer that have not record.</p> <p>allias to customer information</p>
no withdrawal over due date	<p>Item that returned before due date or not due yet.</p> <p>TransID + SaleP_ID + Item_ID + WithdrawnDate + ReturnDate</p>
no unreturned item	<p>Item had returned all.</p> <p>TransID + SaleP_ID + Item_ID + WithdrawnDate + ReturnDate + IsReturnAll</p>
not yet returned item	<p>Item that has not retrned yet.</p> <p>Allias to no unreturned item</p>
payment information	<p>Sales person's payment after sold item to customer.</p> <p>SaleP_ID + SaleP_Fname + SaleP_Lname + Item_ID + Item_Name + UnitPrice + ItemQuantity</p>
price list	<p>Item price book.</p> <p>Item_BrandName + Item_ID + Item_Name +</p>

receipt	<p>Item_Description + Item_Color + Item_SellPrice</p> <p>Receipt will printed after got money from sales person.</p> <p>Cus_ID + Cus_FName + Cus_Lname + SaleP_ID +</p> <p>Item_ID + Item_Name + Item_Description + Item_Color</p> <p>+ Item_SellPrice + Quantity</p>
report	<p>All report that manager request.</p>
request location information	<p>Location that requested by sales person to make reserve.</p> <p>Allias to location information</p>
request safety stock information	<p>Manager request to make decision for making a purchase.</p> <p>Item_ID + Item_BrandName + Item_Name + Item_Color</p> <p>Item_Description + ItemQuantity + Item_Safety +</p> <p>Item_InStock</p>
requested price list	<p>Sales person ask manager to print price list.</p> <p>Allias to price list</p>
reserved date	<p>Reserved date that has location available.</p> <p>ReservedDate</p>
return item information	<p>Information that sales person returned item withdrawal form.</p> <p>TransID + SaleP_ID + Item_ID + WithdrawnDate +</p> <p>ReturnDate</p>
returned supplier item	<p>Information that company returned item to supplier.</p> <p>RtSup_ID + RtSup_Date + RtSup_Grand</p>
safety stock information	<p>Information that show quantity of safety stock.</p> <p>Item_ID + Item_BrandName + Item_Name + Item_Color</p> <p>Item_Description + ItemQuantity + Item_Safety</p>
safety stock report	<p>Report that shows stock and safety stock of each item.</p>

	Item_ID + Item_BrandName + Item_Name + Item_Color Item_Description + ItemQuantity + Item_Safety
sale person detail	Data of sales person. SaleP_ID + SaleP_Fname + SaleP_Lname + SaleP_Nname + SaleP_CitizenID + SaleP_DOB + SaleP_Address + SaleP_Tel Data of sales person.
sales group detail	Group_Name
sales group information	Information of sales group after recorded. Group_ID + Group_Name + isAssignSupervisor
sales information	All of sales detail from selling item. SaleP_ID + SaleP_Fname + SaleP_LName + OrderDate + UnitPrice + ItemQuantity + Cus_ID + Cus_Sex + Cus_FName + Cus_Lname + Cus_Address + Cus_Tel
sales person information	All detail of sales person after recorded. SaleP_ID + SaleP_Title + SaleP_Sex + SaleP_Fname + SaleP_Lname + SaleP_NName + SaleP_CitizenID + SaleP_DOB + SaleP_Address + SaleP_Tel + SaleP_AdmitDate + Supervisor + Group_ID
schedule available	Location that has available for making reservation. Schedule_ID + Group_ID + Lct_ID + ReservedDate
schedule information	All of location information that have recorded. Schedule_ID + Group_ID + Lct_ID + ReservedDate
selling information	SaleP_ID + SaleP_Fname + SaleP_LName + OrderDate + UnitPrice + ItemQuantity + Cus_ID + Cus_Sex + Cus_FName + Cus_Lname + Cus_Address + Cus_Tel

shortage stock information	Information that show quantity that lower than safety stock or insufficient for making withdrawal. Item_ID + Item_LineName + Item_BrandName + Item_Name + Item_Safety + Item_InStock
supervisor detail	Leader of sales group. SaleP_ID + Group_Name + Supervisor
supervisor information	Information of supervisor after recored. SaleP_ID + SaleP_Title + SaleP_Sex + SaleP_Fname + SaleP_Lname + SaleP_NName + SaleP_CitizenID + SaleP_DOB + SaleP_Address + SaleP_Tel + SaleP_AdmitDate + Supervisor + Group_ID + Group_Name + Supervisor
supplier detail	Supplier that compay made due. Sup_Company + Sup_Address + Sup_Tel + ContactName1 + ContactName2 + Email + Homepage + Fax
supplier information	All information of supplier after recorded. Sup_ID + Sup_Company + Sup_Address + Sup_Tel + ContactName1 + ContactName2 + Email + Homepage + Fax + Sup_Contact + Sup_Status
supplier name	Sup_Company
supplier order detail information	Detail of each purchase order. POCode + Item_ID + Cost + Quantity + Discount + VAT + Net
supplier order information	Information of purchase order. POCode + Sup_ID + OrderDate + ReceiveDate + DueDate + NetTotal

update customer order detail	New customer order detail. Alias to customer order detail
update reserve date	Edited reserve date of location Alias to reserve date
updated item information	Edited item information. Alias to item information
updated quantity on hand	Edited safety stock. Item_Safety
updated schedule	Edit reserving date of location. Alias to schedule
updated supplier order information	Edited purchase order. Alias to supplier order information
updated supplier order item	Edited purchase order. Alias to supplier order item
updated withdrawal	Sales person returned or sold item. TransID + SaleP_ID + IsReturnAll
updated withdrawal information	Sales person returned or sold item. Alias to update withdrawal
weekday sales report	Show amount of sale during Monday to Friday. SaleP_ID + SaleP_Fname + SaleP_LName + OrderDate + UnitPrice + ItemQuantity + Cus_ID + Cus_Sex + Cus_FName + Cus_Lname + Cus_Address + Cus_Tel
weekend sales report	Show amount of sale during Saturday and Sunday. Alias to weekday sales report
withdrawal detail information	Information of withdrawal. TransID + Item_ID + WithdrawnDate + ReturnDate + WithdrawnNum + ReturnNum + AmountReceived +

withdrawal information	IsReturn Information that sales person get withdrawal form TransID + SaleP_ID + IsReturnAll
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APPENDIX D
INTERFACE DESIGN

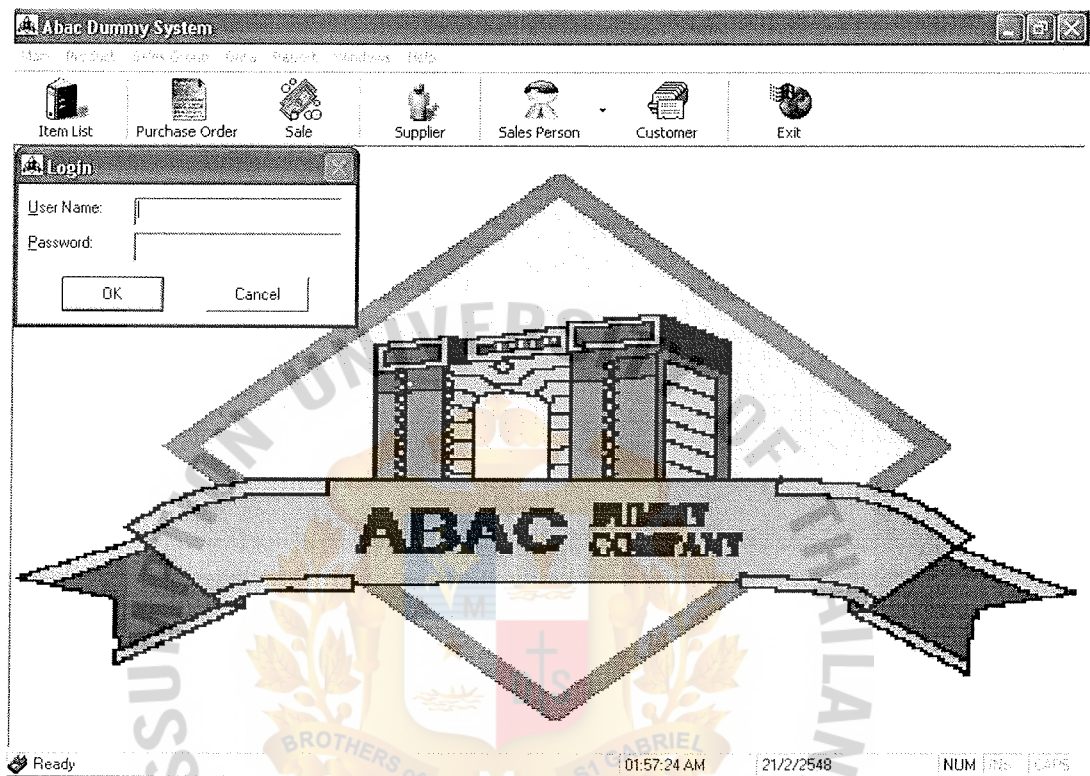


Figure D-1 Login Form

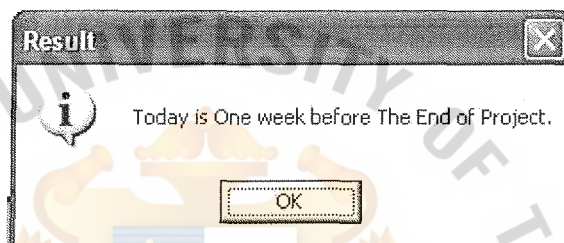


Figure D-2 Return Item Alert Form

Setup

Project

Project ID : 001

GM First Name : Vipak

GM Last Name : Kitti

The Start Date : 15/3/2547

The End Date : 26/3/2548

Tax Rate : 0 %

User Name : admin

Password : *

Retype Password : *

Expected Total Sales : 82,000,000.00

/ No. Of Sales Person : 19 = Quota : 105263

Edit Back

Figure D-3 Setup form

Abac Dummy System - [Shortage Stock]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Product Line

Show All

Total: 7 record(s)

Product Line	Item ID	Item Name	Item Brand	Cost	In Stock	In Order	Safety	Supplier Name
Electronics	W001	Wega TV	SONY	14500	4	0	32	Sony Co., Ltd.
Food And Beverage	PD4454	WEGA	SONY	4000	0	0	3	Sony Co., Ltd.
Household	N8250	Air Block	AIR BLOCK	3000	1	0	10	Berli Jucker House (Cancel)
IT	MSI256(1)	dsfa	AIR BLOCK	5000	0	0	2	Berli Jucker House (Cancel)
IT	T68	Ericcsons T68	SONY	17500	0	0	20	Sony Co., Ltd.
Miscellaneous	FSADF441	Shoes Mat	JOANNA	83	0	0	18	JOANNA Co., Ltd
Miscellaneous	JO1100	MAT	JOANNA	156	0	0	22	JOANNA Co., Ltd

Ready 01:58:29 AM 21/2/2548 N 21 กุมภาพันธ์ 2548

Figure D-4 Shortage stock form

Abac Dummy System - [Supplier Information]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Search
Supplier Name

General Information

Supplier ID : 001

Company Name : BRAND Co., Ltd (Cancel)

Contact

Address : 21/3 TUKCHANG BUILDING, VIPAVADEE ROAD, BANGKOK 10110

Contact Name 1 : Gung

Contact Name 2 :

Tel : 029458306

E-Mail :

Home Page :

FAX : 029458306

☒ Supplier controlled

Total: 1 / 18

Add Edit

Ready 02:02:27 AM 21/2/2548 NUM 100

Figure D-5 Supplier information form

Abac Dummy System - [All Item List]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Screen By Product Line: ☐ Available for sale

Search: Item Name

Details:

Product Line:

Company Name:

Brand:

Item ID:

Item Name:

Description:

Color: Received Date:

Quantity:

Cost: On Hand:

Selling Price: PO Quantity:

Safety Stock: Withdrawn Quantity:

☐ Product cancelled

Total: 1 / 24

Ready 01:59:03 AM 21/2/2548 NUM IN CAPS

Figure D-6 Item list form

Abac Dummy System [Purchase Order]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Purchase Order Information

PO ID : 0000000074 Purchase Date : 21 กุมภาพันธ์ 2548

Supplier : ...

Payment Date : 21 มีนาคม 2548

Received Date : 26 กุมภาพันธ์ 2548

Details

Product ID : Name : Brand : Model : Price : Qty : Total : Add

Item ID	Name	Brand	Model	Price	Quantity	Total

Discount : 0 %

VAT : 0 %

Total Before Discount : 000.00

Discount : 000.00

VAT : 000.00

Total Amount : (VAT included) 000.00

Save

Print

Calculate

Delete All

Exit

Ready 02:01:32 AM 21/2/2548 NUM [INS] [DEPS]

Figure D-7 Purchase order form

Abac Dummy System - [Receive Item]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Purchase Order ID

PO ID :

OK

Save

Supplier Company

Company Name : Contact :

Address : Telephone :

Void

Purchase Order Information

Order Date :

Received Date :

Due Date :

Net Total :

Ready 02:09:10 AM 21/2/2548 NUM INS CAPS


Figure D-8 Receive item form

Abac Dummy System - [Unreceived Item]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Criteria

PO: To PO:  Show All

Show

PO ID	Product ID	Product Name	Qty	Supplier Name	Ordered Date	Received Date
PO-0000000025	PD4454	WEGA	10	Nesco Co., Ltd.	1/29/2005	2/3/2005
PO-0000000028	Z400	Vit C	1	BODYSHOP CO., LTD (Cancel)	1/31/2005	2/5/2005
PO-0000000033	W001	Wega TV	20	Sony Co., Ltd.	2/1/2005	2/6/2005
PO-0000000040	RE61PK	Pot	10	The Quality Wire Co., Ltd. (Cancel)	2/2/2005	2/7/2005
PO-0000000041	X700	Panasonic	15	Panasonic Co., Ltd.	2/2/2005	2/7/2005
PO-0000000042	E310	Samsung E310	10	Samsung Co., Ltd.	2/2/2005	2/7/2005
PO-0000000044	BD000100	Sesame	100	BRAND Co., Ltd (Cancel)	2/3/2005	2/8/2005
PO-0000000045	Z400	Vit C	10	BODYSHOP CO., LTD (Cancel)	2/5/2005	2/10/2005
PO-0000000046	BD000100	Sesame	9000	BRAND Co., Ltd (Cancel)	2/5/2005	2/10/2005
PO-0000000047	E700	Samsung E700	10	Samsung Co., Ltd.	2/5/2005	2/10/2005
PO-0000000047	E800	Samsung E800	10	Samsung Co., Ltd.	2/5/2005	2/10/2005
PO-0000000047	E310	Samsung E310	10	Samsung Co., Ltd.	2/5/2005	2/10/2005
PO-0000000049	BD000100	Sesame	50	BRAND Co., Ltd (Cancel)	2/5/2005	2/9/2005
PO-0000000050	X700	Panasonic	10	Panasonic Co., Ltd.	2/5/2005	2/10/2005
PO-0000000054	X700(1)	Panasonic X700	60	Panasonic Co., Ltd.	2/6/2005	2/11/2005
PO-0000000057	CHON007	Super Chon	50	Pla Chon Company Limited	2/10/2005	2/15/2005
PO-0000000059	FU00000	LIFE BOOK	10	FUJISU CO., LTD	2/13/2005	2/18/2005
PO-0000000060	FU00000	LIFE BOOK	10	HPCompaq Company Limited	2/13/2005	2/14/2005
PO-0000000061	FU00000	LIFE BOOK	20	FUJISU CO., LTD	2/17/2005	2/22/2005

Ready 02:09:37 AM 21/2/2548 NUM 115 CAPS

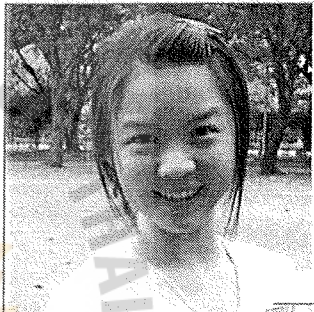
Figure D-9C Unreceived item form

Abac Dummy System - [Sales Person]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Search: Sales Name

Information	Group Information	Unreturned Item
Sales ID : 4410001 First Name : Tom Nick Name : Tom Citizen ID : 111111111111111111 (DD/MM/YYYY) Address : London Bangkok Tel : 023847266 Left Quota : 105,263.00	Last Name : Cruise Date Of Birth : 2/2/2525 Gender : <input checked="" type="radio"/> Male <input type="radio"/> Female	

Total: 4 / 19

Refresh Add Edit

Ready 02:02:52 AM 21/2/2548 NUM INS LEADS

Figure D-10 Sales person information form

Abac Dummy System - [Sales Person]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Search

Sales Name

Information Group Information Unreturned Item

Sales Group Information

Group ID:

Group Name:

☐ Supervisor

Create New Group

Show Group Member

Show Schedule

Person Information

Admitted Date:

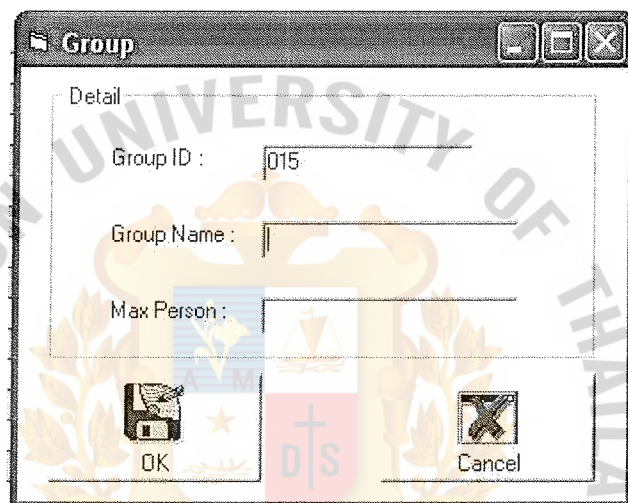
Resigned Date:

Total: 4 / 19

Refresh Add Edit

Ready 02:03:14 AM 21/2/2548 21 กุมภาพันธ์ 2548

Figure D-11 Sales group information form



The image shows a Windows-style dialog box titled "Group". It contains a "Detail" section with three text input fields: "Group ID" (containing "015"), "Group Name", and "Max Person". At the bottom, there are two buttons: "OK" (with a floppy disk icon) and "Cancel" (with a close icon). The dialog box is overlaid on a background featuring a large, faint watermark of the Assumption University of Thailand crest and text.

Figure D-13 | Create group information form

Group Member

Group :

Group ID	Group Name	Max Person	Supervisor
001	XXX	3	
002	Handsome	2	4414254
003	Somewhere	3	
004	Nobody	2	
005	Heal The World	4	4201000
006	JONGWOANSEE	4	8888888
007	YYY	4	
008	Deluxe	4	
009		4	

OK

Sales Person :

Sales Person ID	First Name	Last Name	Tel
4416276	NICHAWAN	CHEEWAKAIT	063237726
4512288	KITTIPON	GONHAT	040079891
7777777	Pla	Chon	097622244
8888888	asdf	dsaf	232

Figure D-14 Show group member form

Abac Dummy System [Location]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Screen by: ☐ Only Available Location Show

Search: Location Name

Details:

Location ID: 001 Contact: Mr. Electra

Location Name: FORTUNE TOWER (CANCEL) Tel: 027980216

Address: ASOK ROAD, SUKUMVIT 23, BANGKOK Start Date: 2548 End Date: 2549

☐ Cancel Schedule

Total: 1 / 15 Refresh Add Edit

Reserve Schedule Show Reserved Date

Ready 02:04:48 AM 21/2/2548 NUM INS CAPS

Figure D-15 Location information form

Abac Dummy System [Reserve Schedule]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Sales Person Information

Name : Group Name :

Reserved Schedule

Location ID : Location Name : Start Date : End Date :

Reserved Date : 6/2/2548

Reserve Delete All

Save

Ready 02:05:08 AM 21/2/2548 NUM INS CAPS

Figure D-16 Reserve schedule form

Abac Dummy System - [Withdrawn Form]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Sales Person Information

Name :

Product Information

Product ID : Product Name : Brand : Selling Price : Quantity : Max Withdrawn Date :

Withdraw Delete All

Product ID	Product Name	Brand	Selling Price	Quantity	Max Withdrawn Date

Total :

Save

Ready 02:04:12 AM 21/2/2548 NUM INS CAPS

Figure D-17 Withdraw form

Abac Dummy System [Returned Form]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Sales Person Information:

Name:

Group Name:

Returned Product Unreturned Product

Product Information:

Product ID: Product Name: Brand: Withdrawn Quantity: Returned Quantity: Sold Quantity:

Receive Delete All

Save

Ready 02:04:32 AM 21/2/2548 NUM INS CAPS

Figure D-18 Returned form

Abac Dummy System - [Items to be returned]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Returned Date : 21 กุมภาพันธ์ 2548 Show Show All

Show Only Over Due

Returned Date	Sales Person	Sales Person N	Tel. No.	Item ID	Item Name	Qty	Withdrawn Date
2/5/2005	4410002	FDS	FDS	E700	Samsung E700	3	2/2/2005
2/5/2005	4718611	SUWAT	067580016	X700	Panasonic	5	2/2/2005
2/6/2005	4414254	Kitsak	023847266	E700	Samsung E700	2	2/3/2005
2/6/2005	4718611	SUWAT	067580016	E800	Samsung E800	3	2/3/2005
2/6/2005	4718611	SUWAT	067580016	Z410	Sony Z410	2	2/3/2005
2/8/2005	4414255	Apiwat	058744585	E800	Samsung E800	1	2/5/2005
2/8/2005	4416276	NICHAWAN	063237726	E800	Samsung E800	2	2/5/2005
2/8/2005	4419999	a	063237726	E800	Samsung E800	3	2/5/2005
2/8/2005	4512288	KITTIPON	040079891	E800	Samsung E800	4	2/5/2005
2/8/2005	4516709	SAKSAN	012345678	E800	Samsung E800	5	2/5/2005
2/9/2005	4415577	Tom	058744585	BD000100	Sesame	3	2/6/2005
2/9/2005	4415577	Tom	058744585	E700	Samsung E700	2	2/6/2005
2/9/2005	4415577	Tom	058744585	E800	Samsung E800	1	2/6/2005
2/9/2005	4415577	Tom	058744585	X700(1)	Panasonic X700	1	2/6/2005
2/9/2005	4415577	Tom	058744585	X700(2)	Panasonic X700	2	2/6/2005
2/9/2005	4415577	Tom	058744585	Z410	Sony Z410	1	2/6/2005

Ready 02:10:00 AM 21/2/2548 NUM INS CAPS

Figure D-19 Unreturned item form

Abac Dummy System - [Selling Information]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Selling ID : SD-0000000045 Date : 21 กุมภาพันธ์ 2548

Customer Information

Sales Person ID : Sales Person Name :
Customer ID : Customer Name :

Product Details

Product ID	Name	Line	Brand	Price	Quantity	Total

Add

Save

Print

Calculate

Delete All

Total per set 000.00
Number 1 set
Net Total : 000.00

Exit

Ready 02:02:01 AM 21/2/2548 NUM INS CAPS

Figure D-20 Selling information form

Abac Dummy System - [Sales Transaction]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

Screen By Date

From 14 กุมภาพันธ์ 2548 To 21 กุมภาพันธ์ 2548 Show

List :

Sales Person	Transaction ID	Customer Name	Address	Selling Date	Net Total
4416276	SO-0000000022	Val	Thailand	2/7/2005	203300
4512288	SO-0000000023	Val	Thailand	2/7/2005	165800
4512288	SO-0000000026	NAPON	Thailand	2/7/2005	99950
4516709	SO-0000000013	Tom	Thailand	1/31/2005	5000
4516709	SO-0000000015	Tom	Thailand	1/31/2005	500
4516709	SO-0000000016	Tom	Thailand	1/31/2005	18000
4516709	SO-0000000018	Tom	Thailand	2/2/2005	150
4516709	SO-0000000019	Tom	Thailand	2/2/2005	18150
7777777	SO-0000000027	Pla	Samutprakarn	2/9/2005	82000

Detail :

Transaction ID	Item ID	Item Name	Line	Qty	Price	Total
SO-0000000027	FU00000	LIFE BOOK	IT	1	62100	62100
SO-0000000027	MSI256	asfd	IT	1	5000	5000
SO-0000000027	X700(1)	Panasonic X700	IT	1	14900	14900

Ready 02:13:28 AM 21/2/2548 NUM INS CAPS

Figure D-21 Sales transaction form

Abac Dummy System - [Returned Item To Supplier]

Main Product Sales Group Data Report Windows Help

Item List Purchase Order Sale Supplier Sales Person Customer Exit

The End Date Of Project : 28/2/2548

Received Da	Item ID	Item Name	Brand	Line	Cost	Qty	Supplier ID	Supplier Name
4/21/2000	E800	Samsung E800	SAMSUNG	IT	15	26	016	Samsung Co., Ltd.
7/25/2003	N8250	Air Block	AIR BLOCK	Household	3000	1	013	Berli Jucker House (Cance
7/25/2003	W001	Wega TV	SONY	Electronics	14500	4	017	Sony Co., Ltd.
2/10/2005	MSI256	asfd	AIR BLOCK	IT	4900	2	013	Berli Jucker House (Cance
2/11/2005	X700(1)	Panasonic X700	SAMSUNG	IT	14000	35	010	Panasonic Co., Ltd.
2/11/2005	X700(2)	Panasonic X700	SAMSUNG	IT	14000	61	010	Panasonic Co., Ltd.
2/15/2005	CHON007	Super Chon	PlaChon	PlaChon	150	72	018	Pla Chon Company Limited
2/16/2005	Z410	Sony Z410	SONY	Car Accessory	40000	12	017	Sony Co., Ltd.
2/22/2005	FLU00000	LIFE BOOK	FUJISU	IT	156	3	002	FUJISU CO., LTD.
2/23/2005	BD000100	Sesame	BRAND	Health and Beau	380	5	001	BRAND Co., Ltd (Cancel)
2/23/2005	T001	test	Brand Test	Test	100	2	004	RED EARTH Co., Ltd.
2/23/2005	T002	t	PlaChon	PlaChon	20000	200	018	Pla Chon Company Limited
2/24/2005	E700	Samsung E700	SAMSUNG	IT	100	32	016	Samsung Co., Ltd.

Ready 02:11:58 AM 21/2/2548 NUM INS 2695

Figure D-22 Return item to supplier form

APPENDIX E
MANAGEMENT REPORT DESIGN





ABAC DUMMY COMPANY

WITHDRAWAL

Invoice ID : 0000004

Sale Person ID : 4414254

Date : พุธ, 2 กุมภาพันธ์, 2005

Sale Person Name : Kitisak

Surname : Tangikajorn

Payment Date : เสาร์, 5 กุมภาพันธ์, 2005

Address : Thailand 10270

Tel, 023847266

Citizen ID : 1-2545-86223-54-6

Item ID	Item Name	Brand	Qty	Max Da	Returned	Price	Total
N8250	Air Block	AIR BLOCK	0	3	0	3,900.00	.00
The item MUST be return within 3 days			Total	0	0		.00
Borrowed by		Approved by		Approved by			
Borrower		Inventory Manager		Sales Manager			

Figure E-1 Withdrawal report



ABAC DUMMY COMPANY

Page 21 of 57

Purchase Order

Date : วันที่ 29 ธันวาคม 2005

Purchase Order No : PO-0000000025

Payment Date : วันที่ 28 กุมภาพันธ์ 2006

Receive Date : วันที่ 3 กุมภาพันธ์ 2006

Supplier ID : 005

Supplier Name : JOA NHA Co., Ltd

Address : 8/8 SILOM ROAD, BANGKOK 10010

Tel. 023550010

Fax. 023556671

Item ID	Item Name	Brand	Model	Cost	Qty	Total
FSA DF441	Shoe Mat	JOA NHA	S	300.00	10	3,000.00
			Total Before Discount			3,000.00
			Discount			
			Vat			
			Total Amount			
Approved by		Approved by		Approved by		
<hr/>		<hr/>		<hr/>		
Inventory Manager		Purchase Manager		Account Manager		

Figure E-2 Purchase order report



ABAC DUMMY COMPANY

RECEIPT

Selling ID : SO-0000000007

Date : จันทร์, 24 มกราคม, 2005

Customer ID : 0000003

Customer Name : Nicole Surname : Kidman

Address : Thailand

Tel. 097622244

Group ID :

Group Name :

Sale Person ID : 4414255

Sale Person Name : Viriya

Surname : Apwat

Tel. 058744585

Item ID	Item Name	Description	Color	Qty	Price	Total
X700	Panasonic	Mobile Phone	Gray	15	14,900.00	223,500.00
J01100	MAT	6 X 6.5'		30	250.00	7,500.00
FSADF441	Shoes Mat	S		5	99.00	495.00
Total				50		231,495.00
Sold by		Approved by		Approved by		
Sales Person		Inventory Manager		Sales Manager		

Figure E-3 Receipt report



ABAC DUMMY COMPANY

Page 1 of 2

Inventory Onhand

Line	Brand	Item ID	Item Name	Description	Color	Stock	On Deliver
Car Accessory							
	SONY	Z410	Sony Z410	Car Radio	Black	12	0
					Total	12	0
Electronics							
	SONY	WC01	Wega TV	Wide screen	Black	4	0
	SHARP	RE61PK	Pot	1.5 liter	PINK	0	10
					Total	4	10
Food And Beverage							
	SONY	PD4454	WEGA	21"	Gray	0	0
				Item.Item_Name (String)	Total	0	0
Health and Beauty							
	BODYSHOP	Z400	Vit C	Lotion		0	10
	BRAND	BD000100	Sesame	20		5	50
	BODYSHOP	BH000500	JOJO BAR (Cancel)	200 I/L		0	0

Figure E-4 Inventory on hand report



ABAC DUMMY COMPANY

Price List

พฤษภาคม 17, 2005

Brand	Item ID	Item Name	Description	Color	Price
AIR BLOCK					
	N8250	Air Block	Remote		3,900.00
	MSI256	asfd	fda	afd	5,000.00
	MSI256(1)	dsfa	dasf	dasf	5,200.00
BODYSHOP		Item.Item_Name (String)			
	Z400	vit C	Lotion		150.00
	BH000500	JOJO BAR (Cancel)	200 M.L.		230.00
BRAND					
	BD000100	Sesame	20		450.00
FUJISU					
	FU00000	LIFE BOOK	S2020	METALLIC	62,100.00
JOANNA					
	FSADF441	Shoes Mat	S		99.00
	J01100	MAT	6 X 6.5'		250.00
PlaChon					
	CHON007	Super Chon	Looking Good		200.00
SAM SUNG					

Figure E-5 Price list report



ABAC DUMMY COMPANY

Item Price Weekly

จันทร์, 21 กุมภาพันธ์, 2005

Line	Brand	Item ID	Item Name	Description	Color	Price
Car Accessory						
	SONY	Z410	Sony Z410	Car Radio	Black	45,000
Electronics						
	SONY	W001	Wega TV	Wide screen	Black	15,000
	SHARP	RE61PK	Pot	1.5 liter	PINK	330
Food And Beverage						
	SONY	PD4454	WEGA	21"	Gray	4,500
Health and Beauty						
	BODYSHOP	Z400	vlt C	Lotion		150
	BRAND	BD000100	Sesame	20		450
	BODYSHOP	BH000500	JOJO BAR (Cancel)	200 M.L.		230
Household						
	AIR BLOCK	N8250	Air Block	Remote		3,900
IT						
	SAM SUNG	X700	Panasonic	Mobile Phone	Gray	14,900

Figure E-6 Item price weekly report



ABAC DUMMY COMPANY

Page 1 of 2

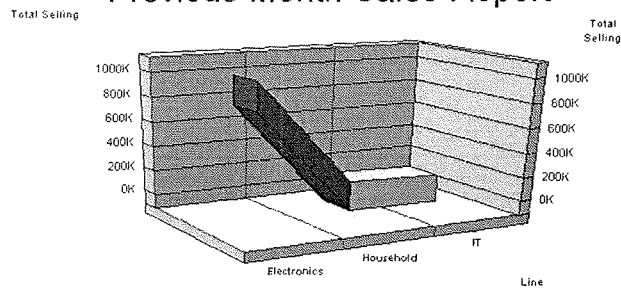
Item Sold In This Week

พฤหัสบดี, 17 กุมภาพันธ์, 2005

Line	Brand	Item ID	Item Name	Description	Color	Date	Qty	Price	Total
Car Accessory									
	SONY	Z410	Sony Z410	Car Radio	Black	07/02/2005	3	45,000.00	135,000.00
								Total	135,000.00
Electronics									
	SONY	W001	Wega TV	Wide screen	Black	07/02/2005	1	15,000.00	15,000.00
	SONY	W001	Wega TV	Wide screen	Black	07/02/2005	2	15,000.00	30,000.00
	SONY	W001	Wega TV	Wide screen	Black	07/02/2005	1	15,000.00	15,000.00
								Total	60,000.00

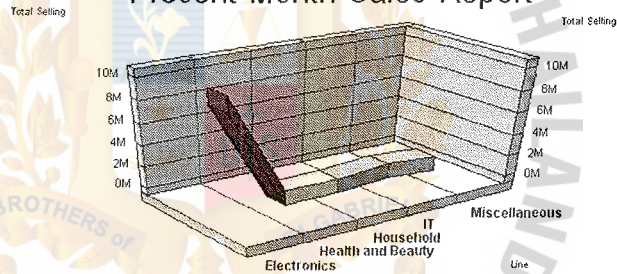
Figure E-7 Item sold weekly report

Previous Month Sales Report



Line	Brand	Item ID	Item Name	Description	Color	Selling Date	Qty	Price	Total
Electronics	Samsung	SW-T90C1	7 Kg.	Dual Basket, Autom Green		จันทร์, 14 กุมภาพันธ์, 2005	2	7,010.00	14,020.00
Electronics	Samsung	CS-34A11SS	34" Plano	100Hz, Nicam, DV	Silver	จันทร์, 14 กุมภาพันธ์, 2005	1	50,150.00	50,150.00
Electronics	Samsung	CS-34A10H	34" Plano	100Hz, Onle, PIP	D Silver	จันทร์, 14 กุมภาพันธ์, 2005	1	70,200.00	70,200.00
Electronics	Samsung	SP-61L2HX	61" Taurus	LCD PJTV, 100Hz,	Silver	จันทร์, 14 กุมภาพันธ์, 2005	1	270,000.00	270,000.00
Electronics	Samsung	PS-50P3H	50" Taurus Drive	Progressive Scan,	C Black	จันทร์, 14 กุมภาพันธ์, 2005	1	510,000.00	510,000.00
								Total	914,370.00

Present Month Sales Report



Line	Brand	Item ID	Item Name	Description	Color	Selling Date	Qty	Price	Total
Electronics	Samsung	M 16 10N	17 L. Oven	600 W.	White	อังคาร, 15 มีนาคม, 2005	1	2,900.00	2,900.00
Electronics	Samsung	M 16 10N	17 L. Oven	600 W.	White	อังคาร, 15 มีนาคม, 2005	1	2,900.00	2,900.00
Electronics	Samsung	SW-T90C1	7 Kg.	Dual Basket, A	Green	จันทร์, 14 มีนาคม, 2005	1	7,010.00	7,010.00
Electronics	Samsung	WT-55H1	3.5 Kg. Washin	3.5 Kg.	Blue	อังคาร, 15 มีนาคม, 2005	2	3,510.00	7,020.00
Electronics	Samsung	DVD-V90K	DVD Combo P	Timer Recordi	Silver	พฤหัสบดี, 10 มีนาคม, 2005	1	10,000.00	10,000.00
Electronics	Samsung	SW-T90C1	7 Kg.	Dual Basket, A	Green	อังคาร, 15 มีนาคม, 2005	2	7,010.00	14,020.00
Electronics	Samsung	CS-29K3M0	29" Plano	A2INicam	Silver	จันทร์, 14 มีนาคม, 2005	1	18,100.00	18,100.00
Electronics	Samsung	VP-D93i	Digital Camera	MiniDV, Night	Black	อังคาร, 15 มีนาคม, 2005	1	34,100.00	34,100.00
Electronics	Samsung	CS-29K3M0	29" Plano	A2INicam	Silver	จันทร์, 14 มีนาคม, 2005	2	18,100.00	36,200.00

Figure E-8 Compare Sale Present Month and Previous Month Report



ABAC DUMMY COMPANY

Return Supplier

Supplier ID : 002

Company Name : FUJISU CO., LTD

Address : 19 PLEONUIT PLAZA , BANGKOK 10200

Tel: 023215688 Fax: 02323785

Date : วันที่ 28 กุมภาพันธ์ 2555

PO ID	Item ID	Item Name	Description	Color	Price	Qty	Total
PO-0000000015	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000016	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000017	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000018	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000059	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000060	FU00000	LIFE BOOK	S2020	METALLIC	156.00	10	1,560.00
PO-0000000061	FU00000	LIFE BOOK	S2020	METALLIC	156.00	20	3,120.00
						Total	12,480.00
Received by		Returned by		Approved by			
_____ Supplier		_____ Purchase Manager		_____ Inventory Manager			

Figure E-9 Return supplier report



ABAC DUMMY COMPANY

Page 6 of 12

Sales Person Report

อาทิตย์, 20 กุมภาพันธ์, 2005

Sale Person ID : 4414255 Group Name :
Sale Person Name : Apwat Surname : Viriya
Nick Name : Zong
Address :
Tel. 058744585

Selling ID	Item ID	Brand	Item Name	Description	Color	Date	Qty	Price	Total
SO-0000000024	BD00010	BRAND	Sesame	20		07/02/2005	1	450.00	450.00
SO-0000000024	Z410	SONY	Sony Z410	Car Radio	Black	07/02/2005	3	45,000.00	135,000.00
SO-0000000031	E700	SAM.SUNG	Samsung E700	Mobile Phone	Red	16/02/2005	1	150.00	150.00
Total								3,287,135.00	

Figure E-10 Sales person report



ABAC DUMMY COMPANY

Sales Person Report

วันที่: 21 กุมภาพันธ์, 2005

Sale	Selling ID	Item ID	Brand	Item Name	Description	Color	Date	Qty	Price	Total
45/2253										
	SO-0000000023	W001	SONY	Wega TV	Wide screen	Black	07/02/2005	1	15,000	15,000.00
	SO-0000000026	W001	SONY	Wega TV	Wide screen	Black	07/02/2005	1	15,000	15,000.00
	SO-0000000023	N5250	AIR BLOCK	Air Block	Remote		07/02/2005	3	3,900	11,700.00
	SO-0000000026	E700	SAM SUNG	Samsung E700	Mobile Phone	Red	07/02/2005	3	150	450.00
	SO-0000000023	X700(2)	SAM SUNG	Panasonic X700	Symolan	Metallic	07/02/2005	1	14,900	14,900.00
	SO-0000000026	X700(2)	SAM SUNG	Panasonic X700	Symolan	Metallic	07/02/2005	5	14,900	74,500.00
	SO-0000000026	M SI256	AIR BLOCK	asfb	foa	afb	07/02/2005	2	5,000	10,000.00
	SO-0000000023	FU000000	FUJIFU	LIFE BOOK	S2020	METALL	07/02/2005	2	62,100	124,200.00
							Total			265,750.00
45/6709										
	SO-0000000013	E700	SAM SUNG	Samsung E700	Mobile Phone	Red	02/02/2005	1	150	150.00
	SO-0000000019	E700	SAM SUNG	Samsung E700	Mobile Phone	Red	02/02/2005	1	150	150.00
	SO-0000000016	E800	SAM SUNG	Samsung E800	Mobile Phone	Red	31/01/2005	1	18,000	18,000.00
	SO-0000000019	E800	SAM SUNG	Samsung E800	Mobile Phone	Red	02/02/2005	1	18,000	18,000.00
	SO-0000000013	BD000100	BRA ND	Sesame	20		31/01/2005	10	450	4,500.00
	SO-0000000015	BD000100	BRA ND	Sesame	20		31/01/2005	1	450	450.00
							Total			41,250.00

Figure E-11 All sales person report

Best Sale Person

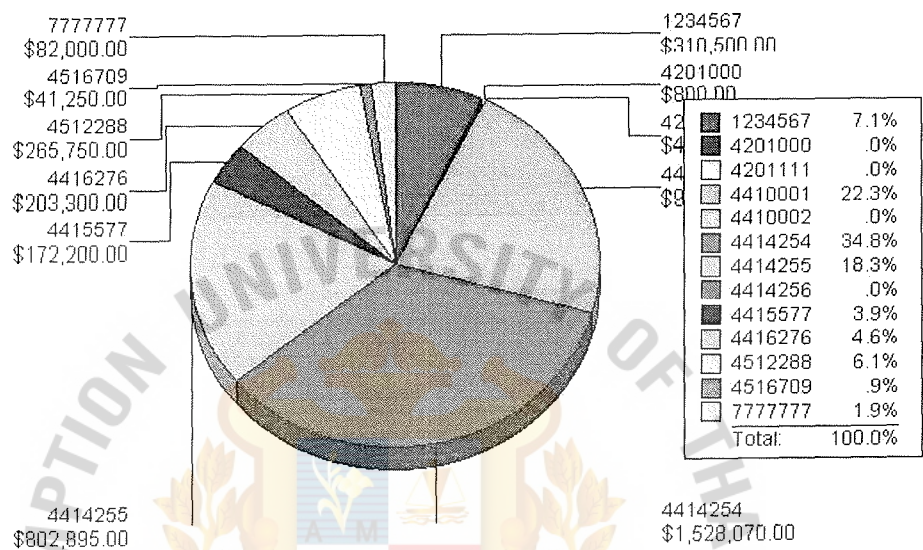


Figure E-12 Best sale person report



ABAC DUMMY COMPANY

Item Safety Stock

พฤหัสบดี, 17 กุมภาพันธ์ 2005

Line	Brand	Item ID	Item Name	Description	Color	Stock	Safety
Car Accessory							
	SONY	Z410	Sony Z410	Car Radio	Black	16	3
Electronics							
	SONY	W001	Wega TV	Wide screen	Black	4	32
	SHARP	RE61PK	Pot	1.5 liter	PINK	0	15
Food And Beverage							
	SONY	PD4454	WEGA	21"	Gray	0	3

Figure E-13 Safety stock report



ABAC DUMMY COMPANY

Page 1 of 1

Stock List

พฤษภาคม 17, 2005

Line	Brand	Item ID	Item Name	Description	Color	Stock	Price	Total
Car Accessory								
	SONY	Z410	Sony Z410	Car Radio	Black	16	45,000.00	640,000.00
Electronics								
	SONY	W001	Wega TV	Wide screen	Black	4	15,000.00	58,000.00
	SHARP	RE61PK	Pot	1.5 liter	PINK	0	330.00	.00
Food And Beverage								
	SONY	PD4454	WEGA	21"	Gray	0	4,500.00	.00

Figure E-14 Stock list report



ABAC DUMMY COMPANY

Week Sale Report

Line	Brand	Item ID	Item Name	Description	Color	Selling Date	Qty	Price	Total
Electronics									
	SONY	W001	Wega Tv	Wide screen	Black	จันทร์, 7 กุมภาพันธ์ 2005	1	15,000.00	15,000.0
	SONY	W001	Wega Tv	Wide screen	Black	จันทร์, 7 กุมภาพันธ์ 2005	2	15,000.00	30,000.0
	SONY	W001	Wega Tv	Wide screen	Black	จันทร์, 7 กุมภาพันธ์ 2005	1	15,000.00	15,000.0
								Total	60,000.0
Household									
	AIR BLOCK	N3250	Air Block	Remote		จันทร์, 7 กุมภาพันธ์ 2005	3	3,900.00	11,700.0
								Total	11,700.0
IT									
	SAM SUNG	E700	Samsung E700	Mobile Phone	Red	จันทร์, 7 กุมภาพันธ์ 2005	2	150.00	300.0
	SAM SUNG	E700	Samsung E700	Mobile Phone	Red	จันทร์, 7 กุมภาพันธ์ 2005	3	150.00	450.0
	SAM SUNG	E800	Samsung E800	Mobile Phone	Red	จันทร์, 7 กุมภาพันธ์ 2005	3	18,000.00	54,000.0
	SAM SUNG	E800	Samsung E800	Mobile Phone	Red	จันทร์, 7 กุมภาพันธ์ 2005	1	18,000.00	18,000.0
	SAM SUNG	X700114	Panasonic X700	Mobile Phone	red	พุธ, 9 กุมภาพันธ์ 2005	1	14,900.00	14,900.0
								Total	87,650.0

Figure E-15 Week sale report

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