



Practical Development of Information System in Business Context:
Stock Management and Point of Sale System for Patiparnosod drug store.

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Submitted in Partial Fulfillment
of the Course BC 4500 280 Hour Training Program
Bachelor's Degree of Business Administration
in Business Computer Program
Assumption University

December 2002

Project Name: Stock Management and Point of Sale System, Paitparnosod Drug Store

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Advisor: A.Krisee Vipulakom

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The Department of Business Computer, ABAC School of Management has approved the aforementioned student's BC 4500 280-Hour Training Project, which includes complete documentation and program as a partial fulfillment of the requirements for the Bachelor's Degree of Business Administration in Business Computer

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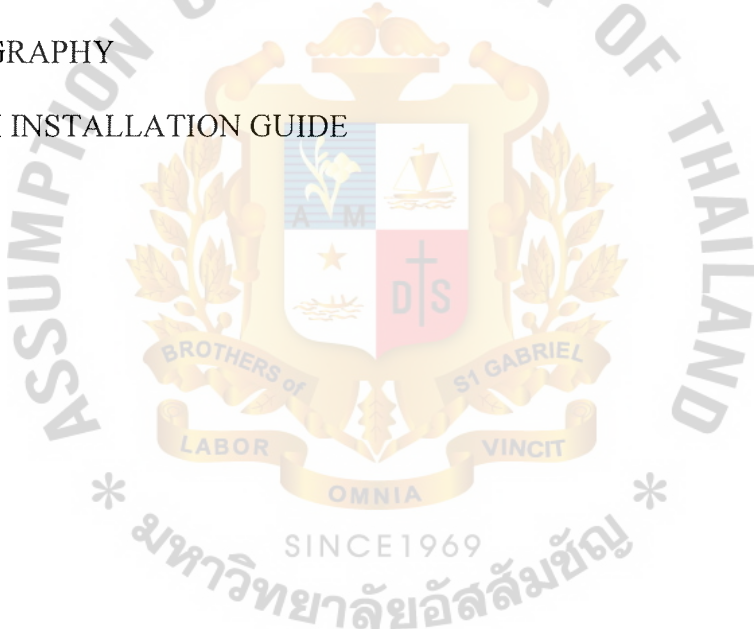
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The logo of Assumption University of Thailand is centered on the page. It features a circular emblem with a shield in the center. The shield is divided into four quadrants: top-left (blue with a white star), top-right (white with a blue cross), bottom-left (white with a blue star), and bottom-right (red with a white cross). The shield is flanked by two golden lions. Below the shield is a banner with the text "LABOR OMNIA VINCIT". The outer ring of the emblem contains the text "ASSUMPTION UNIVERSITY OF THAILAND" at the top and "มหาวิทยาลัยอัสสัมชัญ" at the bottom, with "SINCE 1969" in the center of the bottom arc. The entire logo is rendered in a light, semi-transparent style.

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I. INTRODUCTION

1.1 Background of the Organization

Patiparnosod drug store is chosen for development of information system in business context.

The category of drug store is divided into 3 categories. The chosen drug store is the 1st category, which sell the modern medicine, medicine by doctor's prescription, the medicine package and medicine by customer demand.

The name of the drug store is Patiparnosod. The owner of this store is Mr. Arunrast Patiparnthewa. This drug store has been established in 1968. Patiparnosod is the family business and now it is passing to the second generation. Mrs. Sriwirai Ghamramied is a pharmacist who is on service for two or three days in a week. They have little experience in drug store operation so this causes much operation's problems.

Patiparnosod has 3 types of supplier for the products.

1. Sales Representatives from medicine manufacturing company.
2. Middleman that purchased the medicines in large quantities from many medicines manufacturing companies.
3. Wholesaler. (Siam Makro Co. Ltd.)

Nowadays, the store prefer buying medicine from wholesaler more than other types of supplier

Patiparnosod has 3 types of customer.

1. Walk-in customer.
2. Regular customer (The person who always buys medicine from store).
3. Customer that buy medicine according to doctor's prescription

It located on 2351/1 Charoenkrung Road, Watprayakrai, Bangkorlaem, BKK, 10120.
Tel. (02) 289-1387.

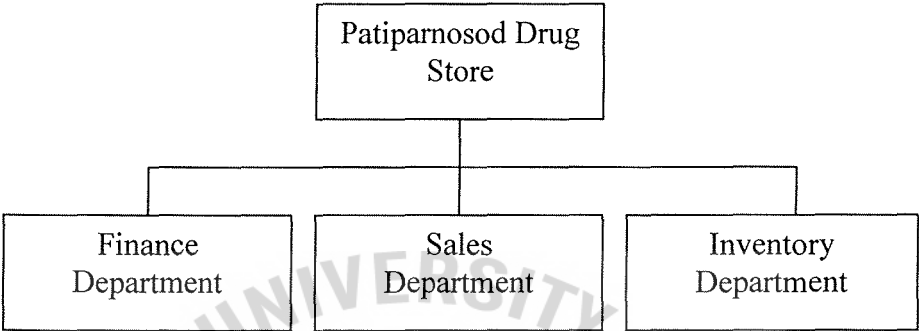


Figure 1-1 Organization Chart



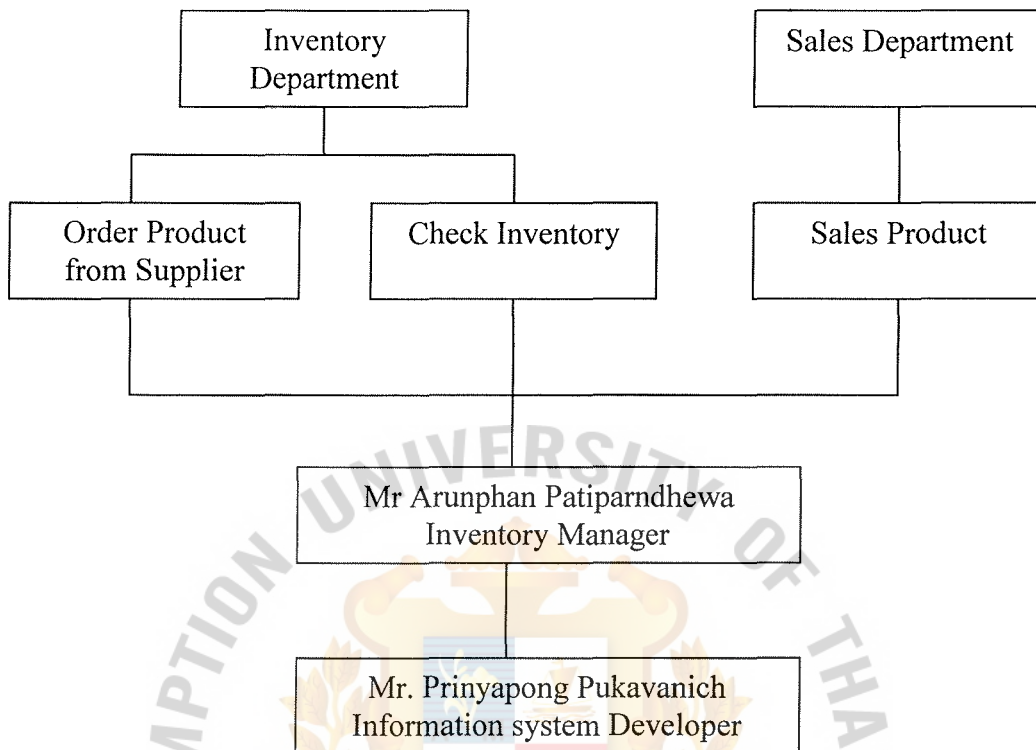


Figure 1-2 Department Chart

1.2 Objectives of the System

To develop information system in store from manual system to automation by using new information system technology which comprise with computer hardware, software and database management system. All of this will make the store can use the information efficiently and effectively.

There are 4 main parts of User Requirement:

1.2.1 Requirement in Purchasing/Receiving System

There is storing and recording the new coming product information.

When the product was received, it has to add new coming product in stock and calculate the total quantity.

There is storing and recording the name of supplier of each product.

1.2.2 Requirement in Stock Management System.

There is the checking system that checks the product left in inventory below minimum requirement.

There is checking and reporting system that check the expired product in the near future.

There is connecting between Inventory System and Point of Sale System in order to deduct the product quantity in inventory.

There is connecting between Inventory System and Supplier Ordering System in order to increase the product quantity in inventory.

1.2.3 Requirement in Point of Sale System.

There is storing and recording every transaction that happen in store.

Amount of product in inventory will be automatically reduced when the product is sold.

Formal receipt will be given to customer.

1.2.4 Requirement of Reporting System.

Report the list of regular customer information.

Report the list of supplier of each product in store.

Report of the detail of all products in the store.

Report of the detail of the selling and purchasing Transaction.

1.3 Scope of the System

It will have developing 3 core systems in the store.

1.3.1 Main System

The function of this system is about managing the master information within the store. This system comprises with 3 sub-systems:

(1) Customer Information System

This system has functions about management the information about the customer of the store.

(2) Supplier Information System

This system has functions about management the information about the supplier of each product in store.

(3) Product Information System

This system has functions about management the information about the product in the store.

1.3.2 Transaction Processing System

The function of this system is managing the transaction processing in store. This system comprises with 3 sub-systems:

(1) Selling System

This system has functions in managing the selling transaction between customer and store.

(2) Purchasing/Receiving System

This system has functions in managing the buying transaction between supplier and store.

(3) Inventory Checking System

This system has functions in managing and updating the product in inventory.

1.3.3 Report System

This system will report things along with user's need.

- Report about customer information.
- Report about supplier of each product in store.
- Report about the detail of all products in the store now.
- Report about the detail of all Transaction. Report about relating inventory management.

1.4 Project Plan

Stock Management and Point of Sale System for Patiparnosod drug store is exhibited in Figure 1-3.

No.	Task Name	September				October				November				December			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	I. Analysis of the Existing System																
1.	Study the Existing System																
2.	Identify the Existing Problems																
3.	Existing Data Flow Diagram																
	II. Preliminary Investigation																
4.	Define the objectives and scope																
5.	Hardware Requirements																
6.	Software Requirements																
	III. Analysis and Design of the Proposed System																
7.	Entity-Relationship Diagram																
8.	Database Design																
9.	Data Flow Diagram																
10.	Process Specification																
11.	Data Dictionary																
12.	Interface Design																
13.	Report Design																
	IV. Implementation of the Proposed System																
14.	Coding																
15.	Testing																
16.	Documentation																

Figure 1-3 Project Plan for Stock Management and Point of sale System for Patiparnosod drug store.

II. THE EXISTING SYSTEM

2.1 Background of Existing System

Currently, the information system of the store is operated manually. The main process has collected information but some process has not yet collected. All information are paper-based and filed in folder.

The Inventory System is the most important system in drug store business. But once the products are sold, the Pharmacist or seller does not deduct the quantity sold from the inventory. They only note it in a piece of paper and sometime forget to do it. When the inventory level is low, they don't know about it. The quantity purchased and received is manually added to the inventory document.

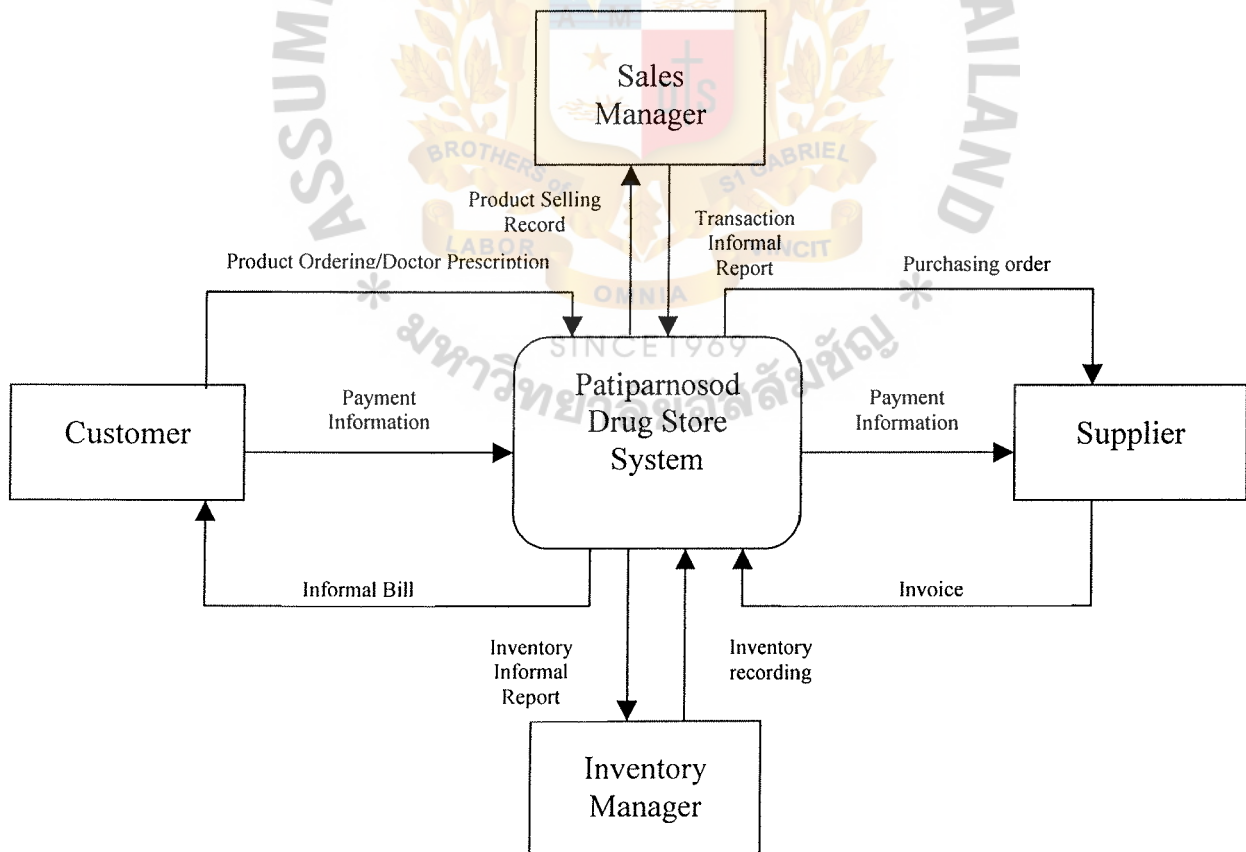


Figure 2-1 Context Diagram of Existing System

2.2 Problem Definition

The problem of this drug store will be divided into 4 main parts.

(1) Problem of Purchasing/Receiving Part

They use manual system in recording and storing information about product ordering and receiving from suppliers, which causes many mistakes.

They have no exact record about type of supplier of each product that causes wasting time and money because they may take time to search the supplier of some product again or purchase from the wrong place that sell the expensive product.

(2) Problem of Inventory Management Part

The amount of money received from medicine selling is less than the actual amount of medicine sold.

There are 3 causes of this problem but they are not sure that which one is the real cause.

- (1) The amount of medicine that receives from supplier is not equal to the amount of medicine ordered because there is no proper record that can be checked about each purchasing order.
- (2) Medicine might be stolen from store.
- (3) There is the mismatch of the amount of actual medicine selling and medicine selling recording.

They do not know when the medicine in stock will expire until the customer purchases those products or recheck stock again.

The decreasing amount of product has not recording when the product is sold.

They don't know that when they should make order for each product.

They don't know the transaction of each product which make them make mistake in calculate ordering the product from supplier. For example, they purchase some product that hard to sell in large amount, which cause the loss of cost or sometime they purchase the product that can sell in large amount in small amount, which not meet the need of customer.

(3) Problem of Point of Sale Part

There are no exact records of each transaction when customer purchases the product because sometimes workers forget to record the transaction or make double recorded.

The record of storing transaction of selling product to customer is not well organized.

The information about amount of product in stock is not reduced when the product was sold.

There is no formal billing of invoice to customer.

(4) Problem of Report Part

There is no daily, monthly and yearly report to check the total selling and purchasing.

There is no report that show amount of all products in the stock.

There is no report that shows the list of supplier.

There is no report that shows the list of regular customer.

III. THE PROPOSED SYSTEM

3.1 System Specification

(1) Hardware Requirements

Table 3-1 Hardware Requirements

Hardware	Specification
COMPATIBLE PCs	IBM PC/AT-Compatible computer
CPU	PENTIUM CLASS running at 200MHz or better
RAM	32MB memory minimum (Suggest 64 MB or more)
DISPLAY	600*800 Pixels VGA 16-bit colors or better
HARD DISK	20 Gigabyte
INPUT	Mouse & Keyboard
OUTPUT	PRINTER

The suggested hardware requirements for using the stock management and point of sale system for Patiparnosod drug store are as Table 3-1.

(2) Software Requirements

Table 3-2 Software Requirements

SOFTWARE	SPECIFICATION
Operating System	Windows 98 Second Edition/ME
Developing Application	Microsoft Visual Basic 6.0(SP 5)
Database Application	Microsoft Access 2000

The suggested Software requirements for using the stock management and point of sale system for Patiparnosod drug store are as Table 3-2.



3.2 System Design

(1) Data Flow Diagram

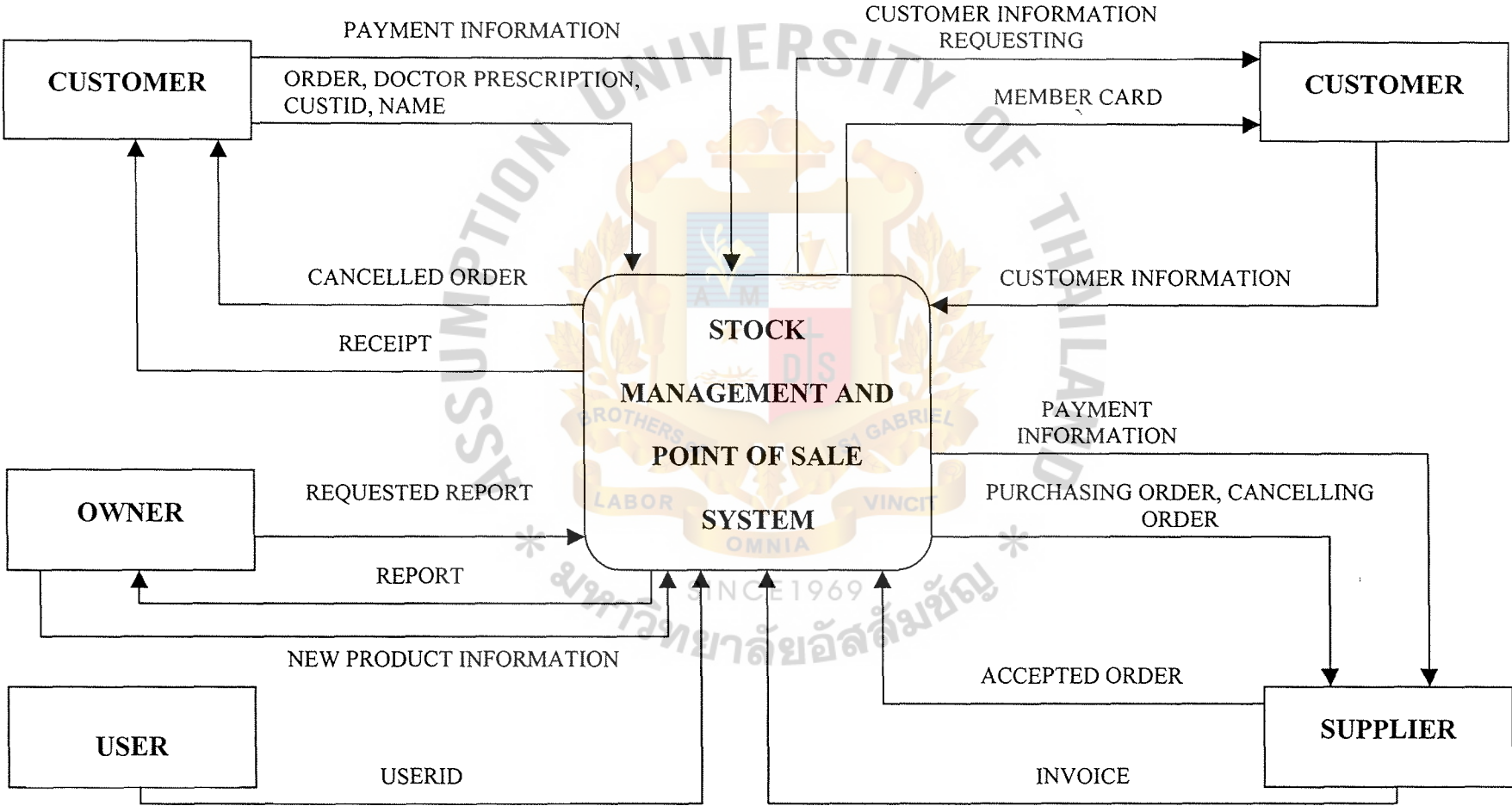


Figure 3-1 Context Diagram

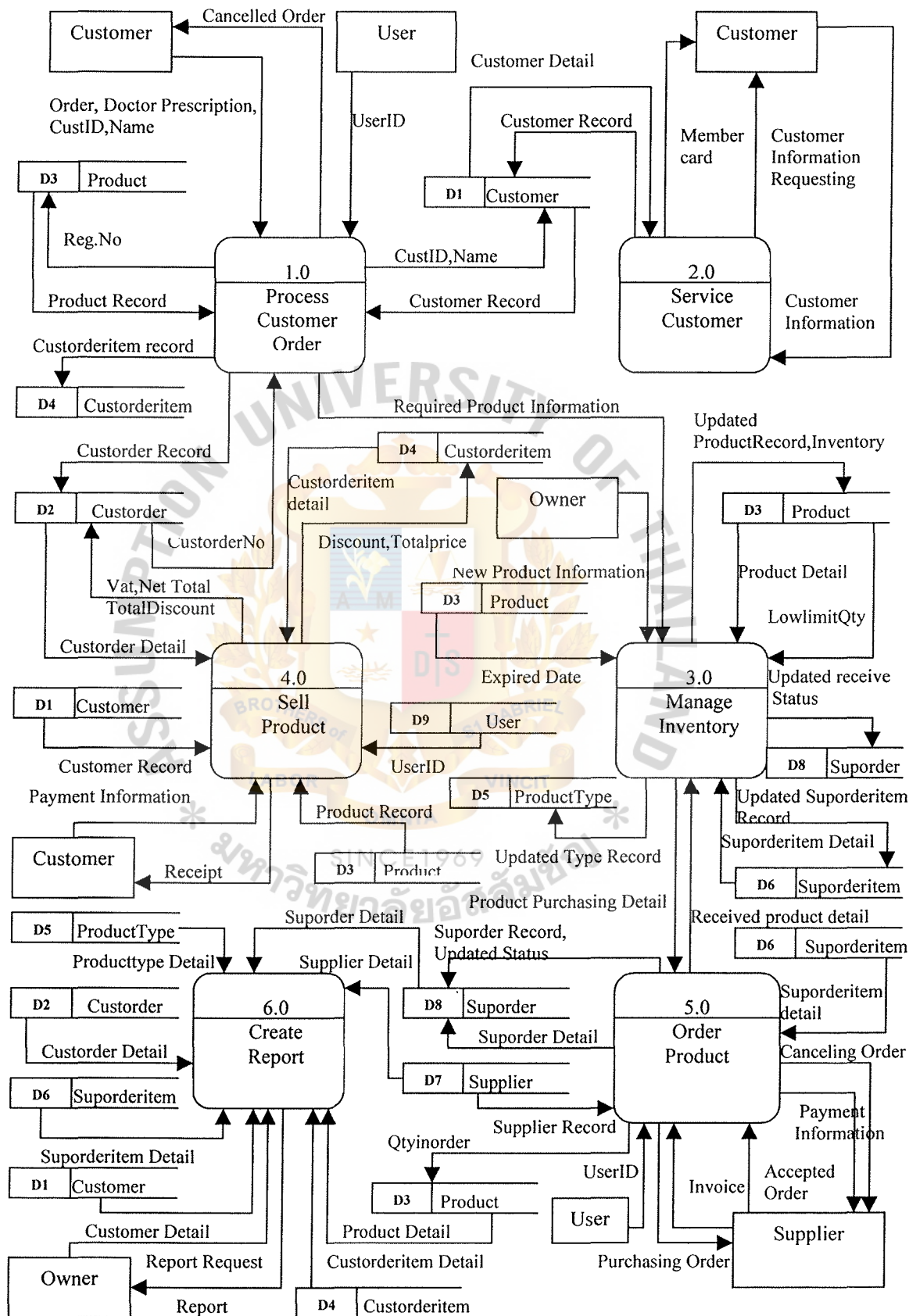


Figure 3-2 Data Flow Diagram – Level 0

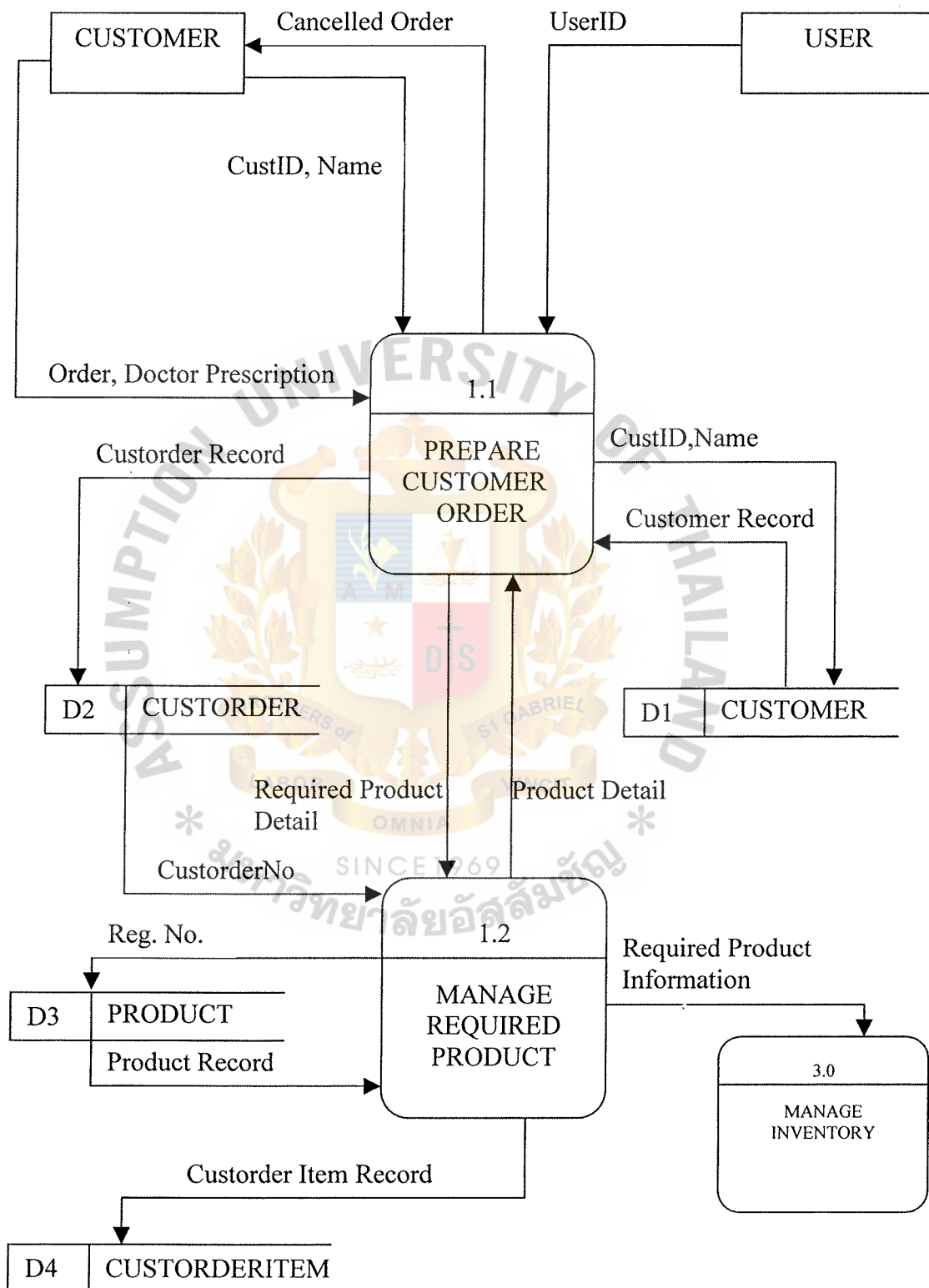


Figure 3-3 Data Flow Diagram – Level 1 for Process 1

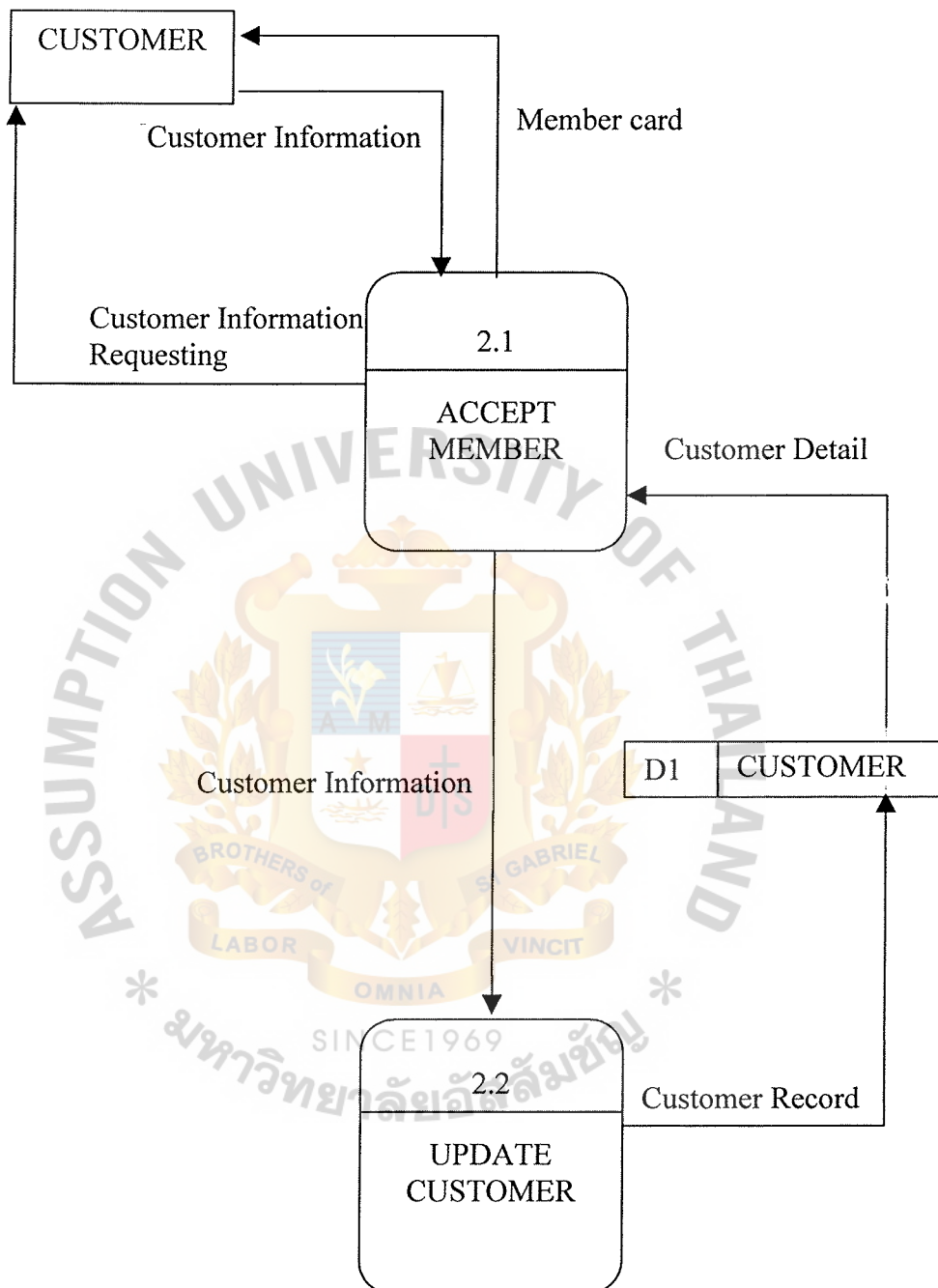


Figure 3-4 Data Flow Diagram – Level 1 for Process 2

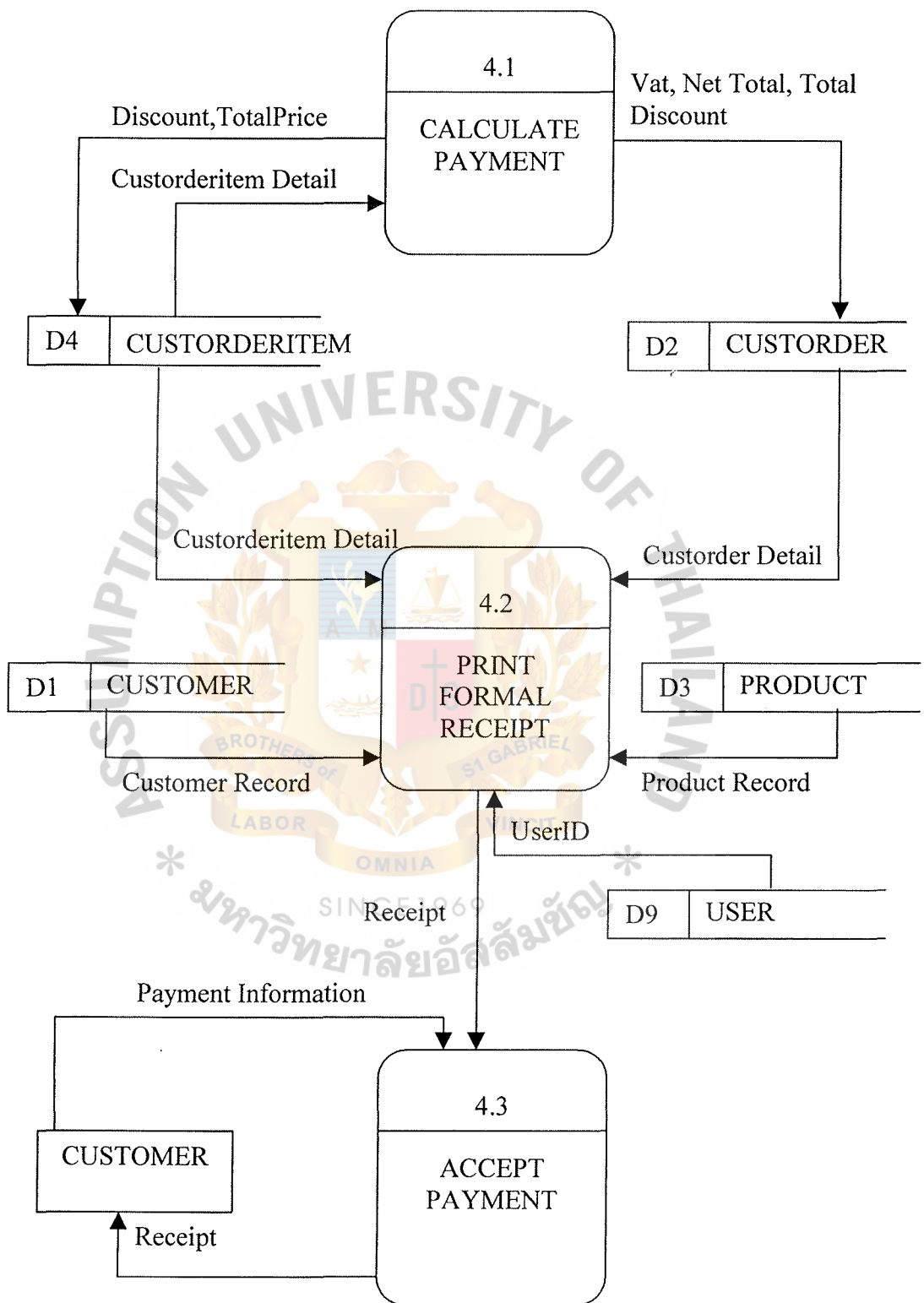


Figure 3-6 Data Flow Diagram – Level 1 for Process 4

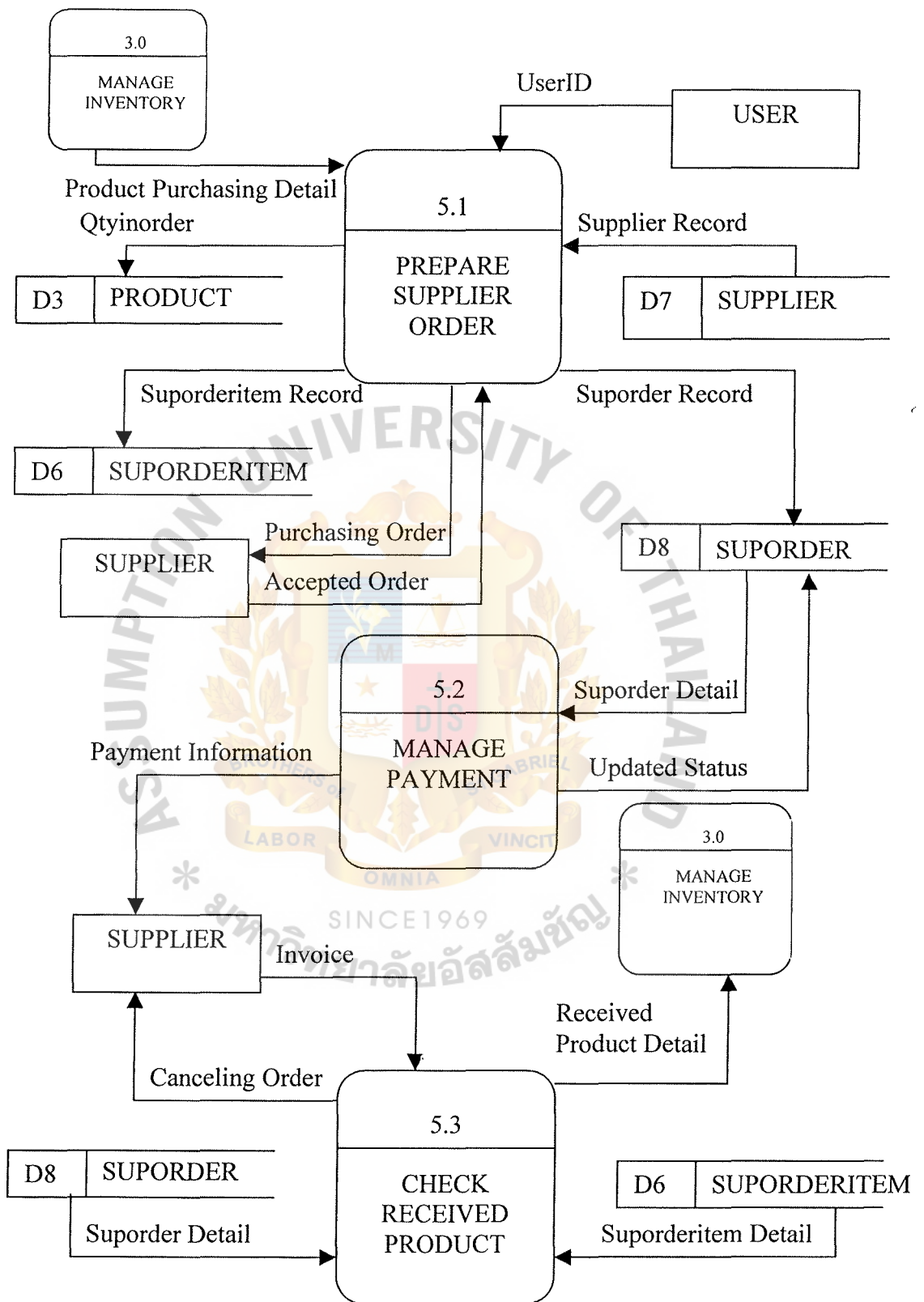


Figure 3-7 Data Flow Diagram – Level 1 for Process 5

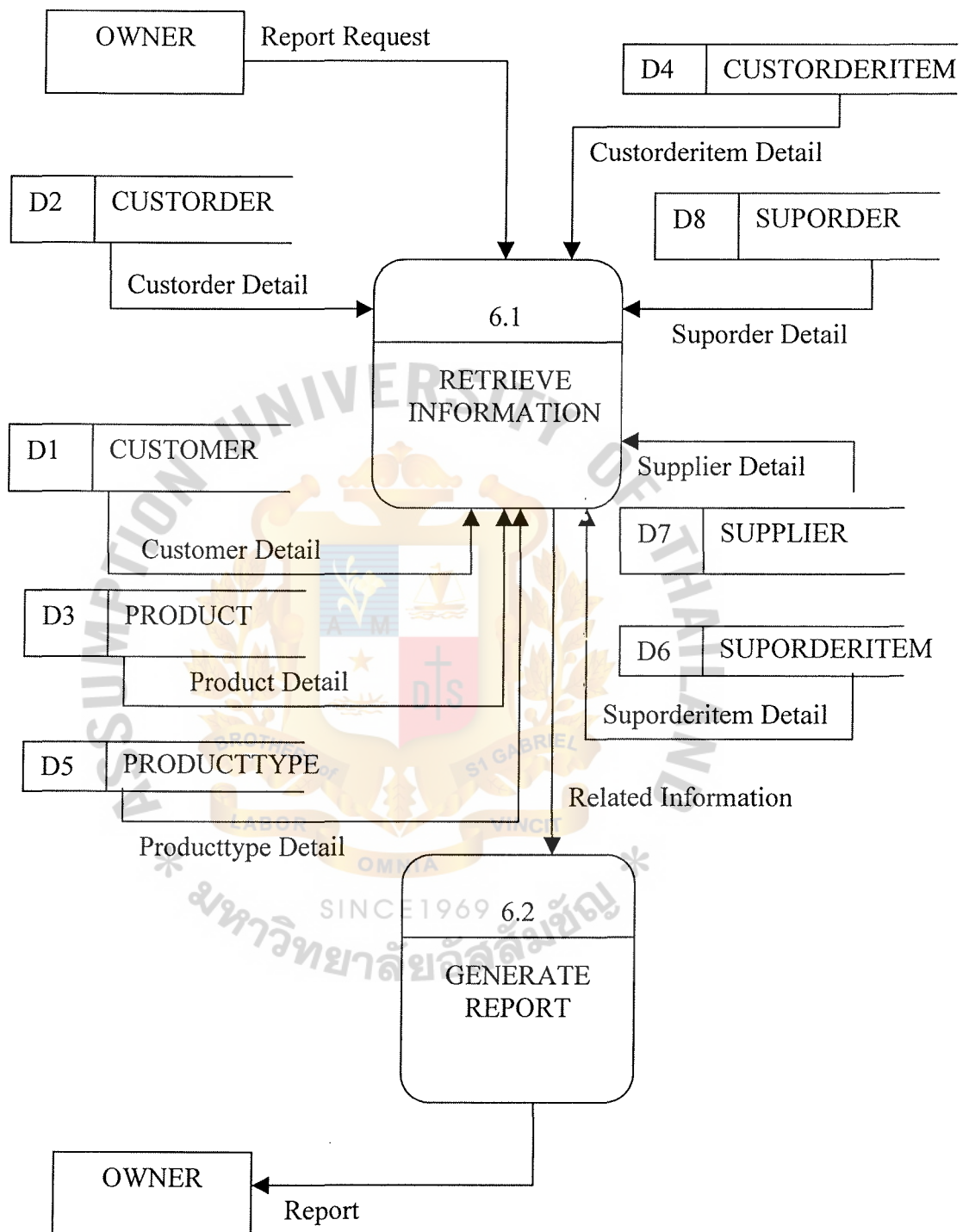


Figure 3-8 Data Flow Diagram – Level 1 for Process 6

(2) Entity-Relationship Diagram

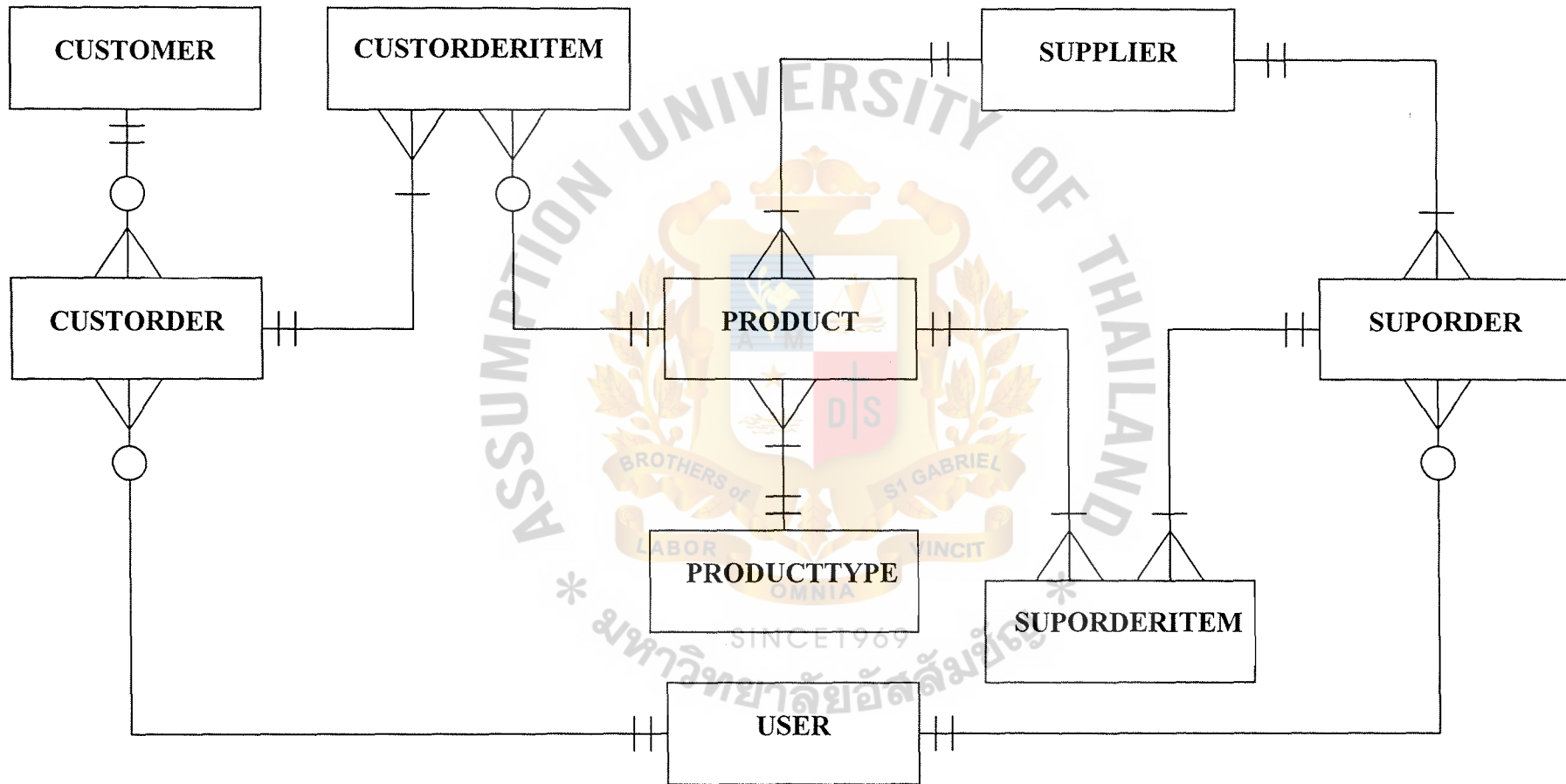


Figure 3-9 Entity-Relationship Diagram

(3) Database Design

The database will be divided into 2 categories.

- (1) Master Tables
- (2) Transaction Table

The master tables consist of 5 tables.

3.1 Customer Table

The purpose of this table is keeping information of each customer. It contains 5 fields. There are 2 types of customer: Walk In customer and Member customer. It is exhibited in Appendix A (Table A-1)

Table 3-3 Database Description of Customer Table

Field Name	Description
CustID	Assigned Customer ID.
Name	Customer Name.
Address	Customer's Address.
ZipCode	Customer's Address zip code.
TelNo	Customer's Telephone number.

3.2 Supplier Table

The purpose of this table is keeping information of each supplier. It contains 5 fields. It is exhibited in Appendix A (Table A-2)

Table 3-4 Database Description of Supplier Table

Field Name	Description
SupID	Assigned Supplier ID.
SupName	Supplier's Name.
Address	Supplier's Address.

ContactName	Contact person's name.
ContactTelNo	Telephone number of salesperson or supplier company.

3.3 Product Table

The purpose of this table is keeping information of each product. It contains 13 fields. It is exhibited in Appendix A (Table A-4)

Table 3-5 Database Description of Product Table

Field Name	Description
RegNo	Thai Register number of each product.
TypeID	Type ID of each product type.
Brand	Brand name of each product.
Description	Description of each product.
LowLimitQty	Quantity of minimum requirement of each product.
MfgDate	Manufacturing date of each product.
ExpDate	Expired date of each product.
UnitCost	Cost per unit of each product.
UnitPrice	Price per unit of each product.
QtyonSale	Quantity in store on shelf of each product.
QtyinStock	Quantity in stock of each product.
QtyinOrder	Quantity in order of each product.
SupID	Supplier ID that identify the supply product of each supplier.
SaleStatus	Sale status of product(0=Cancel Sale ,1=On Sale)

3.4 Product Type Table

The purpose of this table is keeping information of each product type. It contains 2 fields. It is exhibited in Appendix A (Table A-5)

Table 3-6 Database Description of Product Type Table

Field Name	Description
TypeID	Type ID that assigned to each product type name.
TypeDetail	Product type name of each product.

3.5 Puser Table

The purpose of this table is keeping information of each user. It contains 6 fields. It is exhibited in Appendix A. (Table A-3)

Table 3-7 Database Description of Puser Table

Field Name	Description
UserID	User ID that assigned to each user.
Name	User's name.
Address	User's address.
TelNo	User's Telephone No.
Password	User's password to verify the authorized access in system
Priority	User's priority to verify the section access in system

The transaction table consists of 4 tables.

3.6 Custorder Table

The purpose of this table is keeping information of each customer order. It contains 7 fields. It is exhibited in Appendix A (Table A-8)

Table 3-8 Database Description of CustOrder Table

Field Name	Description
CustorderNo	Customer order number that assigned each order.
CustID	Customer ID.
OrderDate	Date of order of customer order.
TotalDiscount	Total discount of each customer order.
Vat	Total vat of each customer order.
NetTotal	Net total of each customer order.
UserID	ID of user who manages each customer order.

3.7 CustOrderitem Table

The purpose of this table is keeping detail information of each customer order. It contains 6 fields. It is exhibited in Appendix A (Table A-6)

Table 3-9 Database Description of CustOrderitem Table

Field Name	Description
CustOrderNo	Customer order number that assigned to each order.
RegNo	Thai Register number of each product.
Qty	Quantity ordered of each product.
UnitPrice	Price per unit of each product
Discount	Discount unit of each product

TotalPrice	Total price of each product.
------------	------------------------------

3.8 SupOrder Table

The purpose of this table is keeping information of each supplier order. It contains 12 fields. It is exhibited in Appendix A (Table A-7)

Table 3-10 Database Description of SupOrder Table

Field Name	Description
SoNo	Supplier order number that assigned to each supplier order.
SupID	Supplier ID that identify the supply product of each supplier
OrderDate	Order date of each supplier order.
DeliveryDate	Deliver date of each supplier order.
ReceiveDate	Receive date of each supplier order.
Vat	Vat amount of each supplier order.
NetTotal	Net total of each supplier order.
PaymentDate	Date of payment for each supplier order.
PaymentStatus	Status of payment.(1 = paid, 0 = unpaid)
ReceiveStatus	Status of receive.(1= received , 0= not yet received)
UserID	ID of each user who manage each supplier order.
CancelStatus	Cancel status. (1= Cancel order, 0= Not Cancel order)

3.9 Suporderitem Table

The purpose of this table is keeping detail information of each supplier order. It contains 5 fields. It is exhibited in Appendix A (Table A-9)

Table 3-11 Database Description of Customer Table

Field Name	Description
SoNo	Supplier order number that assigned to each supplier order
RegNo	Thai Register number of each product
Qty	Quantity ordered of each product
MfgDateStock	Manufacturing Date of the product that received from supplier
ExpDateStock	Expired Date of the product that received from supplier
UnitCost	Cost per unit of each product
TotalCost	Total cost of each product
UpdateProInfo	Status for updating Mfg. Date and Exp. Date of product in store(1 = Updated,0 = Not yet updated)

(4) Process Specification

Table 3-12 Process Specification for Process 1.0

Process Name:	Process Customer Order
Data In:	(1) Customer Order, Doctor Prescription (2) Customer ID, Name (3) Product Record (4) User ID (5) Customer Record (6) Customer orders No.
Data Out:	(1) Cancelled Order (2) Register No. (3) Customer order item Record (4) Customer ID, Name (5) Required Product Information (6) Customer order Record
Process:	(1) Prepare Customer Order and relate other information and send new customer information to add member in other process. (2) Manage Required Product that can available or not available and send information to update in other process
Attachment:	(1) Customer (2) User (3) Data Store D1 (3) Data Store D3

	(4) Data Store D4 (5) Process 2.0 (6) Process 3.0
--	---

Table 3-13 Process Specification for Process 1.1

Process Name:	Prepare Customer Order
Data In:	(1) Order, Doctor Prescription (2) Customer ID, Name (3) User ID (4) Customer Record (5) Product Detail
Data Out:	(1) Cancelled Order (2) New Customer (3) Customer ID, Name (4) Customer order Record (5) Required Product Detail
Process:	Prepare Customer Order and relate other information and send new customer information to add member in other process.
Attachment:	(1) Customer (2) User (3) Data Store D1 (4) Data Store D2 (5) Process1.2

Table 3-14 Process Specification for Process 1.2

Process Name:	Manage Required Product
Data In:	Product Record
Data Out:	(1) Register No. (2) Required Product Information (3) Customer order Item Record
Process:	Manage Required Product that can available or not available and send information to update in other process
Attachment	(1) Data Store D2 (2) Data Store D3 (3) Data Store D4 (4) Process 1.1 (5) Process 3.0

Table 3-15 Process Specification for Process 2.0

Process Name:	Service Customer
Data In:	(1) Customer Detail (2) Customer Information
Data Out:	(1) Member Card (2) Customer Information Requesting (3) Customer Record
Process:	(1) Request information from customer and give member card to customer (2) Update customer information and assign

	customer ID to customer
Attachment:	(1) Customer (2) Data Store D1

Table 3-16 Process Specification for Process 2.1

Process Name:	Accept Member
Data In:	(1) Customer Information (2) Customer Detail
Data Out:	(1) Member Card (2) Customer Information Requesting (3) Customer Information
Process:	Request information from customer and give member card to customer
Attachment:	(1) Customer (2) Data Store D1 (3) Process 2.2

Table 3-17 Process Specification for Process 2.2

Process Name:	Update Customer
Data In:	Customer Information
Data Out:	Customer Record
Process:	Update customer information and assign customer ID to customer
Attachment:	(1) Data Store D1 (2) Process 2.1

Table 3-18 Process Specification for Process 3.0

Process Name:	Manage Inventory
Data In:	<ul style="list-style-type: none"> (1) Required Product Information (2) Product Detail (3) Low Limit Quantity (4) Expired Date (5) Received Product Detail (6) Supplier Order Item Detail
Data Out:	<ul style="list-style-type: none"> (1) Updated Record (2) Product Purchasing Detail (3) Updated Receive Status
Process:	<ul style="list-style-type: none"> (1) Add new product information (2) Update Product Record, inventory amount and supplier order item record and receive status in supplier order (3) Check Expired date and Product Quantity in stock that below than specified minimum limit (4) Make Product ordering that below than minimum limit by sending information to other process
Attachment	<ul style="list-style-type: none"> (1) Data Store D3 (2) Data Store D5 (3) Data Store D8 (4) Process 1.0 (5) Process 5.0

Table 3-19 Process Specification for Process 3.1

Process Name:	Maintain New Product Record
Data In:	New Product Information
Data Out:	(1) Added Product Record (2) Added Type Record
Process:	Add new product information
Attachment:	(1) Data Store D3 (2) Data Store D5 (3) Owner

Table 3-20 Process Specification for Process 3.2

Process Name:	Update Inventory & Related Product Information
Data In:	(1) Required Product Information (2) Received Product Detail (3) Supplier Order Item Detail
Data Out:	(1) Updated Product Record (2) Updated Inventory Amount (3) Updated Supplier Order Item Record
Process:	Update Product Record, inventory amount and supplier order item record and receive status in supplier order
Attachment:	(1) Data Store D3 (2) Data Store D6 (3) Data Store D8 (4) Process1.0

	(5) Process5.0
--	----------------

Table 3-21 Process Specification for Process 3.3

Process Name:	Check Minimum & Expire Product
Data In:	(1) Expired Date (2) Low Limit Quantity
Data Out:	(1) Register No. (2) Product Name
Process:	Check Expired date and Product Quantity in stock that below than specified minimum limit
Attachment:	(1) Data Store D3 (2) Process 3.4

Table 3-22 Process Specification for Process 3.4

Process Name:	Make Product Ordering
Data In:	(1) Register No. (2) Product Name (3) Product Detail
Data Out:	Product Purchasing Detail
Process:	Make Product ordering that below than minimum limit by sending information to other process
Attachment:	(1) Data Store D3 (2) Process 3.3 (3) Process 5.0

Table 3-23 Process Specification for Process 4.0

Process Name:	Sell Product
Data In:	(1) Customer Order Item Detail (2) Customer Order Detail (3) Customer Record (4) User ID (5) Payment Information (6) Product Record
Data Out:	(1) Vat, Net Total, Total Discount (2) Discount, Total Price (3) Receipt
Process	(1) Calculate selling detail as Total Discount, Vat, Net Total, Total Price (2) Print Formal Receipt by combining related selling information. (3) Accept Payment from customer and give receipt for customer.
Attachment:	(1) Customer (2) Data Store D1 (3) Data Store D2 (4) Data Store D3 (5) Data Store D4 (6) Data Store D9

Table 3-24 Process Specification for Process 4.1

Process Name:	Calculate Payment
Data In:	Customer Order Item Detail
Data Out:	(1) Discount, Total Price (2) Vat, Net total, Total Discount
Process:	Calculate selling detail as Total Discount, Vat, Net Total, Total Price
Attachment:	(1) Data Store D2 (2) Data Store D4

Table 3-25 Process Specification for Process 4.2

Process Name:	Print Formal Report
Data In:	(1) Customer Order Item Detail (2) Customer Order Detail (3) Customer Record (4) Product Record (5) User ID
Data Out:	Receipt
Process	Print Formal Receipt by combining related selling information.
Attachment:	(1) Data Store D1 (2) Data Store D2 (3) Data Store D3 (4) Data Store D4 (5) Data Store D9

	(6) Process 4.3
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Table 3-26 Process Specification for Process 4.3

Process Name:	Accept Payment
Data In:	(1) Receipt (2) Payment Information
Data Out:	Receipt
Process:	Accept Payment from customer and give receipt for customer.
Attachment:	(1) Customer (2) Process 4.2

Table 3-27 Process Specification for Process 5.0

Process Name:	Order Product
Data In:	(1) User ID (2) Supplier Record (3) Supplier Order Detail (4) Product Purchasing Detail (5) Supplier Order Item Detail (6) Accepted Order (7) Invoice
Data Out:	(1) Quantity in Order (2) Supplier Order Record (3) Updated Status (4) Received Product Detail

	<p>(5) Supplier Order Item Record</p> <p>(6) Cancelled Order</p> <p>(7) Payment Information</p> <p>(8) Purchasing Order</p>
Process:	<p>(1) Prepare Supplier Order and relate other information and contact supplier for ordering product.</p> <p>(2) Manage Payment to specific date and update payment status.</p> <p>(3) Check Received Product that along with ordering product otherwise cancelled order and send received product detail to other process</p>
Attachment:	<p>(1) User</p> <p>(2) Supplier</p> <p>(3) Data Store D3</p> <p>(4) Data Store D6</p> <p>(5) Data Store D7</p> <p>(6) Data Store D8</p> <p>(7) Process 3.0</p>

Table 3-28 Process Specification for Process 5.1

Process Name:	Prepare Supplier Order
Data In:	(1) Accepted Order (2) Product Purchasing Detail (3) User ID (4) Supplier Record
Data Out:	(1) Purchasing Order (2) Supplier Order Item Record (3) Quantity in Order (4) Supplier Order Record
Process:	Prepare Supplier Order and relate other information and contact supplier for ordering product.
Attachment:	(1) User (2) Supplier (3) Data Store D3 (4) Data Store D6 (5) Data Store D7 (6) Data Store D8

Table 3-29 Process Specification for Process 5.2

Process Name:	Manage Payment
Data In:	Supplier Order Detail
Data Out:	(1) Updated Status (2) Payment Information
Process:	Manage Payment to specific date and update

	payment status.
Attachment:	(1) Supplier (2) Data Store D8

Table 3-30 Process Specification for Process 5.3

Process Name:	Check Received Product
Data In:	(1) Supplier Order Detail (2) Invoice (3) Supplier Order Item Detail
Data Out:	(1) Canceling Order (2) Received Product Detail
Process:	Check Received Product that along with ordering product otherwise cancelled order and send receives product detail to other process.
Attachment:	(1) Supplier (2) Data Store D6 (3) Data Store D8 (4) Process 3.0

Table 3-31 Process Specification for Process 6.0

Process Name:	Create Report
Data In:	(1) Report Request (2) Customer Detail (3) Supplier Order Item Detail (4) Customer Order Detail

	(5) Product Type Detail (6) Supplier Order Detail (7) Supplier Detail (8) Product Detail (9) Customer Order Item Detail
Data Out:	Report
Process:	(1) Retrieve relating information along with report request from owner (2) Design reports format and print report.
Attachment:	(1) Owner (2) Data Store D1 (3) Data Store D2 (4) Data Store D3 (5) Data Store D4 (6) Data Store D5 (7) Data Store D6 (8) Data Store D7 (9) Data Store D8

Table 3-32 Process Specification for Process 6.1

Process Name:	Retrieve Information
Data In:	(1) Report Request (2) Customer Detail (3) Supplier Order Item Detail (4) Customer Order Detail

	(5) Product Type Detail (6) Supplier Order Detail (7) Supplier Detail (8) Product Detail (9) Customer Order Item Detail
Data Out:	Related Information
Process:	Retrieve relating information along with report request from owner
Attachment:	(1) Owner (2) Data Store D1 (3) Data Store D2 (4) Data Store D3 (5) Data Store D4 (6) Data Store D5 (7) Data Store D6 (8) Data Store D7 (9) Data Store D8 (10) Process 6.2

Table 3-33 Process Specification for Process 6.2

Process Name:	Generate Report
Data In:	Related Information
Data Out:	Report
Process:	Design reports format and print report.
Attachment:	(1) Owner

	(2) Process 6.1
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(5) Data Dictionary

Table 3-34 Data Dictionary of Stock Management and Point of Sale System
for Patiparnosod drug store System Database

Field Name	Meaning
Address	Address of customer ,user or supplier
Brand	Name of product
CancelStatus	Identification Status that supplier order is cancelled or not
ContactName	Name of person who the our store usually contact for purchasing product to store
ContactTelno	Telephone number of supplier
CustID	Identification code of customer
CustOrderNo	Identification code of customer order
DeliveryDate	Expect Date on which supplier deliver product to our store
Description	Description of product *
Discount	Discount amount per customer order item that sold to our store's customer
ExpDate	Date on which the product in our store is expired
ExpDateStock	Date on which the product that received from supplier is expired
LowLimitQty	Specific minimum quantity of product that have to maintain in our store
MfgDate	Date on which the sold product in our store is manufactured

MfgDateStock	Date on which the product that received from supplier is manufactured
Name	Name of customer or user
NetTotal	The total cost of product sold by the supplier to our store or total price of product sold by the our store to customer
OrderDate	Date on which the our store place order to supplier or the customer place order to our store
Password(Puser)	Identification password of user to enter drug store system
PaymentDate	Date on which the our store make payment of product to supplier
PaymentStatus	Identification Status of our store's payment to supplier
Priority	Identification of different authorization for each user to enter drug store system
Qty	Quantity of product per item ordered by customer or ordered by store
QtyInOrder	Quantity of product is during order period by store
QtyInStock	Quantity of product is in stock of store
QtyOnSale	Quantity of selling product on shelf in store
ReceiveDate	Date on which the product is received from supplier
ReceiveStatus	Identification Status of receiving product from

	supplier for each order
Regno	Identification code of product
SaleStatus	Identification Status of product in the store that is available or not
Sono	Identification code of the order placed to supplier by the store
SupID	Identification code of supplier
Supname	Name of Supplier's company
Telno	Telephone No. of user or customer
TotalCost	The total cost of the product in each order item sold by the supplier
TotalDiscount	The total discount amount of product in each order sold by the store to customer
TotalPrice	The total price of product per customer order item
TypeDetail	The detail name of each product type
TypeID	Identification code of each product type
UnitCost	Cost per unit of the product sold by the supplier to store
UnitPrice	Selling price per unit of the product
UnitType	The different form of unit of the product
UpdateProInfo	Identification Status for updating Mfg. date and Exp. Date of sold product in store
UserID	Identification code of each user
Vat	The amount of vat in each customer order or supplier order

Zipcode	The code of customer's city
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(6) Interface Design

The interface design is exhibited in Appendix B.

Table 3-35 Interface Design of Stock Management and Point of Sale

System for Patiparnosod drug store System

Interface Screen Lists	Explanation
(1) Login Form (Figure B-1)	This screen is security-checking form to prevent unauthorized user enter the system.
(2) Main Page Form (Figure B-2)	This screen is the beginning of the drug store system. The user can enter each screen from this form
(3) Customer Profile Form (Figure B-3)	This screen is for customer information management and customer information searching.
(4) Supplier Profile Form (Figure B-4)	This screen is for supplier information management and supplier information searching.
(5) User Profile Form (Figure B-5)	This screen is for user information management and user information searching.
(6) Change Password Form (Figure B-6)	This screen is for user's password changing.
(7) Product Detail Form (Figure B-7)	This screen is for product information management and product information searching. There are three colors to show the expired date of product status.
(8) Product Type Form	This screen is for product type information

(Figure B-8)	management. This screen is sub-form of Product Detail Form that can enter by clicking edit product type button from Product Detail Form.
(9) Product Purchasing Form(Figure B-9)	This screen is for product purchasing management from supplier and calculate system for support purchasing. The Mfg. Date and Exp. date of product will be updated pass by this form, if the product is received on order date
(10) User Show Form (Purchasing) (Figure B-10)	This screen is sub-form of product purchasing form for browsing and choosing user information.
(11) Supplier Detail Form (Purchasing) (Figure B-11)	This screen is sub-form of product purchasing form for browsing and choosing supplier information.
(12) Product Show Form (Purchasing) (Figure B-12)	This screen is sub-form of product purchasing form for browsing and choosing product information.
(13) Product Selling Form (Figure B-13)	This screen is used for product selling management to customer and calculate system for support selling.
(14) Customer Show Form (Selling) (Figure B-14)	This screen is sub-form of product selling form for browsing and choosing customer information.

(15) Product Show Form (Selling) (Figure B-15)	This screen is sub-form of product selling form for browsing and choosing product information.
(16) Product Receiving Form (Figure B-16)	This screen is used for checking received product and updating receive and payment status or cancel order. The Mfg. Date and Exp. date of product will be updated pass by this form. This screen is used when ordered products delivered or payment to supplier for product is made.
(17) Supplier Detail Form (Receiving) (Figure B-17)	This screen is sub-form of product receiving form for browsing and choosing supplier information.
(18) Product Expired Checking Form (Figure B-18)	This screen is used for showing the product details that expired before specific date. It can be showed by type or showed all of selling product on shelf or showed by type or showed all of product is in stock of store.
(19) Product Requirement Form (Figure B-19)	This screen is used for showing product detail that has quantity in stock below specific limit quantity. It used for informing user to make more purchasing product. It can be selected by type of product or selected all of products.
(20) Product Report Preview Form	This screen is used for selecting product information by type or all products for

(Figure B-20)	preview product report before printing.
(21) Total Purchase Form (Figure B-21)	This screen is used for preview the total purchasing reports and shows the store total outcome by specified condition. It can be selected by specified date period or order number.
(22) Total Sale Form (Figure B-22)	This screen is used for preview the total selling report and show store income by specified condition. It can be selected by specified date period or order number.



(7) Report Design

The report design is exhibited in Appendix C.

Table 3-36 Report Design of Stock Management and Point of Sale System
for Patiparnosod drug store System

List the Report	Explanation
(1) All Customer Report (Figure C-1)	Report list of all customer information.
(2) All Supplier Report (Figure C-2)	Report list of all supplier information.
(3) All Product Report (Figure C-3)	Report list of all Product information.
(4) All Product By Type Report (Figure C-4)	Report list of all Product information by specific product type.
(5) Low Limit Product Report (Figure C-5)	Report list of all product information that quantity in stock lower than specific minimum quantity.
(6) Low Limit Product By Type Report (Figure C-6)	Report list by specific product type of all product information that quantity in stock lower than specific minimum quantity.
(7) All Expired Product (on sale) Report (Figure C-7)	Report list of all expired selling product on shelf information that expired date less than specific date.
(8) All Expired Product (in stock) Report (Figure C-8)	Report list of all expired product in stock information that expired date less than specific date.

(9) Expired Product By Type(on sale) Report (Figure C-9)	Report list by specific product type of expired selling product on shelf information that expired date less than specific date.
(10) Expired Product By Type(in stock) Report (Figure C-10)	Report list by specific product type of expired product in stock information that expired date less than specific date.
(11) Total Purchase By Date Report (Figure C-11)	Report list of all purchasing order that contain List of product by specific date period.
(12) Total Purchase By Order Number Report (Figure C-12)	Report list of purchasing order that contain list of product by specific order number range
(13) Total Sale By Date Report (Figure C-13)	Report list of customer order selling that contains list of product by specific date period.
(14) Total Sale By Order Number Report (Figure C-14)	Report list of customer order selling that contains list of product by specific order number range.
(15) Receipt Report (Figure C-15)	Report list of the product and other relate information that give to customer as evidence for customer selling.

IV. SYSTEM IMPLEMENTATION

4.1 Overview the System Implementation

The system implementation is the process of putting new system and retiring the old system. There are four implementation strategies: Direct cut over, Pilot implementation, Phased implementation, and Parallel implementation. The stock management and Point of sale system for Patiparnosod drug store system use Direct Cut over Strategy for implementation. It is the transition from existing system to new system immediately. This strategy uses low cost and minimal time required but high risk.

The reason for using Direct Cut over Strategy is the new system is extremely different from old system. Besides, there is not transfer transaction information between existing system and new system because existing system is manual system that have no correctly recording about transaction so new system can begin new transaction operation. So existing system is cancelled and replaced with new system.

This strategy has high risk so the system should be tested many times with real and large enough quantity information in order to confirm validity and have training period for user. There is the good management in transferring data from old to new system. The training is very necessary because new system is different from existing system.

4.2 Test Plan

Test plan is the steps in testing that the system works as designed and meet the user requirement. Test plan will be developed for checking system performance and usability. The stock management and Point of sale system for Patiparnosod drug store system divided test plan into 3 steps.

First step in system testing is using unit testing for testing small component of the system to guarantee it is running the proper operation and eliminate execution errors and logic errors.

Next step is link testing. It is testing between two or more components that depend on each other. The data that use for link testing come from both normal and unusual situations. This testing examine the interaction of a series of components within the system that work together properly such as the testing with the inventory updating in transaction processing.

Last step is system testing that involves entire information system. The system will move through testing environments before releasing into a real environment. Then the user can test the system by data entering, including samples of actual, or live data, perform queries, and print reports to simulate actual operating conditions. After that, the user can test in real environment. Finally, check them that satisfy user's need or some parts have to be modified.

V. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

The stock management and Point of sale system for Patiparnosod drug store system will develop information in store from manual system to automation system by using new information technology, which comprise of computer hardware, software and database management system. The main activities of this system development are studying the existing system, defining problems, collecting user requirements, and designing the proposed system, programming and testing the system.

This system uses the five phases of the system development life cycle to develop the system: System Planning: System Analysis: System Design: System implementation and System Operation and Support.

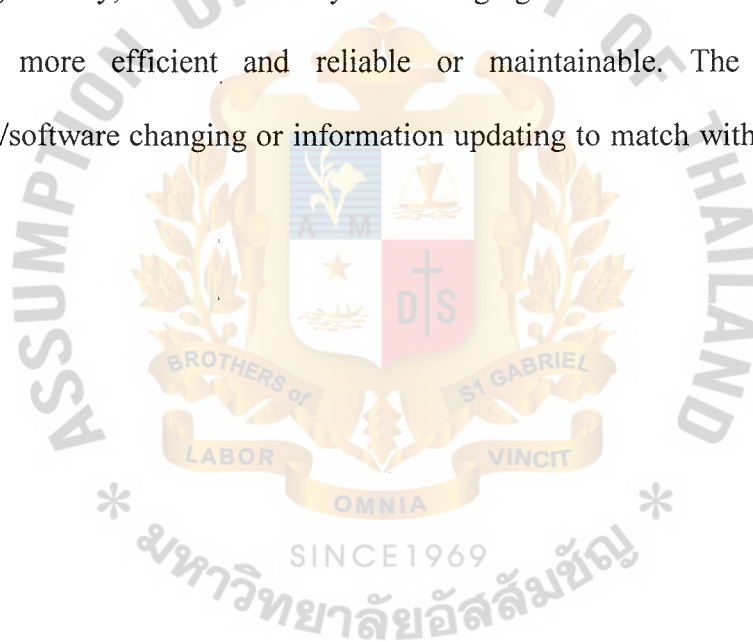
The new system has four main parts: Purchasing/Receiving system, Stock management system, Point of sale system, Reporting system. Database management system is the most important part that is behind the new system. It performs tasks previously done by people. The new system will increase the efficiency and reduce the cost of performing various tasks in the store. This system will solve the problems of old system and make the store can use information efficiently and effectively.

However, There are some problems occur during system developing. The system cannot check the expired date and unit cost of medicine from purchasing same product in different supplier order. The system cannot classify between the selling product in store with the product in stock. The system cannot transfer the product in stock to the selling product in store when the product in store is sold out. Finally, all these problems can be solved.

5.2 Recommendations

First it should have user training to help user familiar with the new system and make them can use system resource more effectively, to provide answer for technical and operational question and to make user more productive by teaching them how to meet information need.

Feedback should be collected from user after they use system within a period. In the future, the data report system should be improved to have more flexibility and use less paper space. The order canceling should have putting remark about the cause of canceling. Finally, it should have system changing to match with environment change to make it more efficient and reliable or maintainable. The changing may be hardware/software changing or information updating to match with the operation in the future.





APPENDIX A
DATABASE DESIGN

Table A-1 Customer Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	CustID	varchar (5)	Y	Y		Custorder		Primary Key
2	Name	varchar (50)	Y					Attribute
3	Address	varchar (70)			Y			Attribute
4	Zipcode	varchar (5)			Y		<5 digits>	Attribute
5	TelNo	varchar (30)			Y			Attribute

Table A-2 Supplier Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	SupID	varchar (4)	Y	Y		Product, Suporder		Primary Key
2	SupName	varchar (50)	Y					Attribute
3	Address	varchar (70)			Y			Attribute
4	ContactName	varchar (50)			Y			Attribute
5	ContactTelNo	varchar (30)			Y			Attribute

Table A-3 Puser Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	UserId	varchar (3)	Y	Y		Custorder, Suporder		Primary Key
2	Name	varchar (50)	Y					Attribute
3	Address	varchar (70)			Y			Attribute
4	TelNo	varchar (30)			Y			Attribute
5	Password	varchar (15)			Y			Attribute
6.	Priority	varchar (1)					<1 or 2>	Attribute

Table A-4 Product Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	RegNo	varchar (20)	Y	Y		Custorder item, Suporderitem		Primary Key
2	TypeId	varchar (20)	Y			Product		Foreign Key
3	Brand	varchar (20)	Y		Y			Attribute
4	Description	varchar (20)			Y			Attribute
5	LowLimitQty	Number (Integer)			Y			Attribute

6	MfgDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
7	ExpDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
8	UnitType	varchar (30)			Y			Attribute
9	UnitCost	Number (Single)			Y			Attribute
10	UnitPrice	Number (Single)			Y			Attribute
11	QtyonSale	Number (Integer)			Y			Attribute
12	QtyinStock	Number (Integer)			Y			Attribute
13	QtyinOrder	Number (Integer)			Y			Attribute
14	SupID	varchar (5)	Y				Suporder	Foreign Key
15	SaleStatus	varchar (1)					< 1 or 0 >	Attribute

Table A-5 ProductType Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	TypeID	varchar (3)	Y	Y		Product		Primary Key
2	TypeDetail	varchar (30)	Y					Attribute

Table A-6 Custorderitem Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	CustorderNO	varchar (7)	Y	Y				Foreign Key
2	RegNo	varchar (20)	Y					Foreign Key
3	Qty	Number (Integer)			Y			Attribute
4	UnitPrice	Number (Single)			Y			Attribute
5	Discount	Number (Single)			Y			Attribute
6	TotalPrice	Number (Single)			Y			Attribute

Table A-7 Suporder Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key	Check	Key Type
1	SoNo	varchar (7)	Y	Y		Suporderitem		Primary Key
2	SupID	varchar (4)	Y			Product		Foreign Key
3	OrderDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
4	DeliveryDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
5	ReceiveDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
6	Vat	Number (Single)			Y			Attribute
7	NetTotal	Number (Single)			Y			Attribute
8	PaymentDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
9	PaymentStatus	varchar (1)					< 1 or 0 >	Attribute
10	ReceiveStatus	varchar (1)					< 1 or 0 >	Attribute
11	UserID	varchar (3)				Custorder		Foreign Key
12	CancelStatus	varchar (1)					< 1 or 0 >	Attribute

Table A-8 Custorder Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key to	Check	Key Type
1	CustorderNo	varchar (7)	Y	Y		CustorderItem		Primary Key
2	CustId	Text(5)	Y					Foreign Key
3	OrderDate	Date/Time (Short Date)			Y		<dd/mm/yyyy>	Attribute
4	TotalDiscount	Number (Single)			Y			Attribute
5	Vat	Number (Single)			Y			Attribute
6	NetTotal	Number (Single)						Attribute
7	UserID	varchar (3)	Y			Suporder		Foreign Key

Table A-9 Suporderitem Table

No.	Field Name	Field Type	Index	Unique	Nullable	Foreign Key to	Check	Key Type
1	SoNo	varchar (3)	Y	Y		Custorderitem		Foreign Key
2	RegNo	varchar (3)	Y			Custorderitem		Foreign Key

3	MfgDateStock	Date/Time (ShortDate)			Y		<dd/mm/yyyy>	Attribute
4	ExpDatestock	Date/Time (ShortDate)			Y		<dd/mm/yyyy>	Attribute
5	Qty	Number (Integer)			Y			Attribute
6	UnitCost	Number (Single)			Y			Attribute
7	TotalCost	Number (Single)			Y			Attribute
8	UpdateProInfo	varchar (1)					<1 or 0>	Attribute



APPENDIX B
INTERFACE DESIGN



Figure B-1 Login Form



Figure B-2 Main Page Form

The screenshot shows a software application window titled "CUSTOMER PROFILE". The menu bar includes "Customer", "Supplier", "Product", "Purchasing", "Receiving", "Selling", "User", and "Exit". The main form area contains the following elements:

- Customer Profile** section with fields:
 - Customer ID: e0000
 - Name-Surname: walk-in
 - Address: not available
 - Zip Code:
 - Tel. No.: not available
- Searching** section with a dropdown menu set to "CustID" and a "Search Next" button.
- Navigation buttons: First, Previous, Next, Last.
- Record at: 1 out of 7

The status bar at the bottom shows the date "27/11/2545" and the time "17:42".

Figure B-3 Customer Profile Form

Customer Supplier Product Purchasing Receiving Selling User Exit

SUPPLIER PROFILE

Supplier Profile

Supplier ID: s001

Supplier name: Oic

Address: 2535 ถ.สุขุมวิท บางจาก พระโขนง กทม.

Contact Name: สมศักดิ์ โสภณ

Contact Tel. No: 02-7424321-2

Searching
Search by: SupID Containing text

Search Next

First Previous Next Last

Record at 1 out of 4

27/11/2545 17:43

Figure B-4 Supplier Profile Form

Customer Supplier Product Purchasing Receiving Selling User Exit

USER PROFILE

Edit
 Add
 Exit form

User Profile

User ID: u01

Name-Surname: ศิริใจงานะเดียด

Address: 1520 ถนนจรัญญะ บางตลาด ปากเกร็ด นนทบุรี

Tel. No.: 02-5310995

Password: ***

Confirm Password: ***

Priority: 2

Searching Search by: UserID Containing text: []

Search Next

First Previous Next Last

Record at 1 out of 3

27/11/2545 18:25

Figure B-5 User Profile Form

CHANGE PASSWORD

OLD PASSWORD:

NEW PASSWORD:

CONFIRM PASSWORD:

27/11/2545 18:31

Figure B-6 Change Password Form

Customer

Supplier

Product

Purchasing

Receiving

Selling

User

Exit

+

PRODUCT DETAIL

+

Edit

+

Add

+

Cancel

+

Exit form

+

Transfer

Product Type Selecting

ขนาด/น้ำหนัก

Select by Type

Select All

General Detail

Register No.

2895/35(m)

Brand Name

น้ำดื่มกวางโจว

Unit Type

ขวด

Description

น้ำดื่ม(medium size)

Unit Cost

60 BAHT

Unit Price

75 BAHT

Product Type

ขนาด/น้ำหนัก

Edit Product Type

Supplier Name

Oic

Mfg.Date (dd/mm/yyyy)

Exp.Date (dd/mm/yyyy)

Minimum Requirement

3 UNIT

Sale Status

☒ Sale
 ☐ Cancel

Expired Status

Product Controlling

Quantity on Sale

UNIT

Quantity in Stock

UNIT

Quantity in Order

UNIT

Supplier NO.

sc00003

Expired Status

The Product is Expired

Below 5 month before Exp.Date

Above 5 month before Exp.Date

Searching

Search by

Containing text

Regno

Search Next

First

Previous

Next

Last

Record at 1 out of 10

27/11/2545

17:35

Figure B-7 Product Detail Form

Product Type Editor - Inventory - Stock Report - Transaction Report - Update

Customer Supplier Product Purchasing Receiving Selling User Exit

PRODUCT TYPE

Edit
 Add
 Back to Product

TypeID	TypeDetail
T01	ชาวม/ชาพลอง
T02	ชาวก/ไม่วดตัว
T03	ชาวก/พริ้ว/เพือกาศ
T04	ชาวก/พะพะสหาร
T05	ชาวก/กิน/เพ็ดดออก
T06	ชาวก/สัว/ดรรณณ
*	

First
 Previous
 Next
 Last
Record at 1 out of 6

27/11/2545 18:31

Figure B-8 Product Type Form

Patmonex Drug Store System - [Product Purchasing]

Main Product Transaction Inventory Master Report Transaction Report Admin

Customer Supplier Product Purchasing Receiving Selling User Exit

PRODUCT PURCHASING

UserID: u01 UserName: ศิริโชค งามละเมียด Order Date [dd/mm/yyyy]: 27/11/2545

Supplier Order No. sc00010 Receive status: ☐ Receive ☐ Unreceive

Select Supplier

Supplier ID: Delivery Date [dd/mm/yyyy]: 4/12/2545

Supplier Name: Oic Payment Date [dd/mm/yyyy]: 27/12/2545

Contact Name: สมศักดิ์/นิต Address: 2535 ถ.สุขุมวิท บางจาก พระโขนง กทม. Payment Status: ☐ Paid ☐ Unpaid

Tel. No. 02-7424321-2

Order Product

Register No. 2s970/29 Quantity: 2 Cost/unit: Total: \$56.00 Calculate Change unit cost

Product Type: ยากระพระลาหาร Description: ยาไฟ Add Product Delete Product

Brand: Alum milk

Register No.	Product Type	Brand Name	Unit Cost	Amount	Total
2s95/35(m)	ยากด/ยากดใส	น้ำฝนกวรสูง	60	2	120
2s970/29	ยากระพระลาหาร	Alum milk	28	2	56

Calculate

Vat: 7 %

Net Total: Baht

Vat Total: Baht

Grand Total(vat inc.): Baht

Create Order Exit form

27/11/2545 17:47

Figure B-9 Product Purchasing Form

Usershow

Username

	userid	name
▶	u01	ศรวิไล งามละเมียด
	u02	ปริญญพงศ์ ปุททะนิช
	u03	อรุณกัน ปฐิตาณเทว

Back to form
Purchase

Figure B-10 User Show Form(Purchasing)

Supplier Detail x

Supplier Name

	supid	supname	contacttelno
▶	s001	Olic	02-7424321-2
	s002	Procter&Gable	02-7126240
	s003	ไทยนครพัฒนา	02-5892021-8
	s004	Siam Makro	02-3752781-8

Back to form Purchase

Figure B-11 Supplier Detail Form(Purchasing)

Product Brand

Enter the brand product keywo

reano	brand	description	lowlimitqty	qtyinstock
▶ 2a95/35(m)	น้ำมันกวางลั้ง	น้ำมัน(medium size)	3	0
2a95/35(s)	น้ำมันกวางลั้ง	ยาน้ำมัน(small size)	3	0
2a970/29	Alum milk	ยาน้ำ	3	0

Back to form
Purchase

Figure B-12 Product Show Form(Purchasing)

Figure B-13 Product Selling Form

Customer Name

	custid	name
▶	c0000	walk-in
	c0001	ปิยาภา ปุททะนิต
	c0002	ดวงพร เทียมตระกูล
	c0003	วิรัตน์ ลุ่มพิตพงษ์
	c0004	รัฐไกร ลุ่มสุจริตกุล
	c0005	ชวลิตา โดษากิรมย์

**Back to form
Selling**

Figure B-14 Customer Show Form(Selling)

Product Show

Product Brand

RegNo	TypeID	Brand	Description	LowLimitQty	MfgDate
▶ 2a95/35(m)	t01	น้ำมันกวาดล้าง	น้ำมัน(medium size)	3	2/2/2544
2a95/35(s)	t01	น้ำมันกวาดล้าง	ยาไขมัน(small size)	3	21/11/2545
2c23/44	t01	Vicks Vaporub	ครีม	2	12/12/2541

Back to form
Selling

Figure B-15 Product Show Form(Selling)

File Edit View Transaction Register Master Payment Transaction Report Admin

Customer Supplier Product Purchasing Receiving Selling User Exit

PRODUCT RECEIVING

Select Supplier

Supplier ID: ๐001 Address: 2535 ถ.สุขุมวิท บางจาก พระโขนง กทม.

Supplier Name: Oic

Contact Name: สมศักดิ์/พัชร์ดี Tel. No: 02-7424321-2

Product Information

Register No: 2๘95/35(m) Update Date Mfg.Date (dd/mm/yyyy): 27/11/2545 Exp.Date (dd/mm/yyyy): 27/11/2545 Edit

Order No.	Register No.	Brand	Type Name	Unit Cost	Quantity	Total	Mfg.Date	Exp.Date
๐๐00003	2๘95/35(m)	น้ำดื่มแก้วทรงสูง	ขนาด ๓๗๕ มล	30	5	300		
๐๐00003	2๘95/35(s)	น้ำดื่มแก้วทรงสูง	ขนาด ๓๗๕ มล	35	5	175		

Select Supplier Order No.

Supplier Order No: ๐๐00003

Receive status: ☐ Received ☒ Unreceived

Supplier Order Detail

Receive Date (dd/mm/yyyy):

Expect D.L. Date (dd/mm/yyyy):

Order Date (dd/mm/yyyy):

Payment Date (dd/mm/yyyy):

Payment Status: ☒ Paid ☐ Unpaid

Net Total:

Val Total(7%):

Grand Total:

Order Person: ศรัทธา งามละม้าย

Update Payment

Update Receive

Update Receive and Payment

Cancel Order

Exit form

27/11/2545 17:49

Figure B-16 Product Receiving Form

Supplier Detail

Supplier Name

Enter supname keyword

	supid	supname	contactelno
▶	s001	Olic	02-7424321-2
	s002	Procter&Gable	02-7126240
	s003	ไทยนครพัฒนา	02-5892021-8
	s004	Siam Makro	02-3752781-8

Back to form
Receive

Figure B-17 Supplier Detail Form(Receiving)

Customer Supplier Product Purchasing Receiving Selling User Exit

CHECK EXPIRED PRODUCT

Product Type Selecting

Select by ☒ Type(on sale) ☐ Type(in stock) ☐ All(on sale) ☐ All(in stock)

Expired date Before : (dd/mm/yyyy)

ReqNo	Brand	Description	Qty on Sale	ExpDate	UnitCost	UnitPrice	UnitType	TypeID
▶ 2a95/35(s)	น้ำดื่มกว๊านสูง	ยี่ห้อน้ำดื่ม (small size 0		21/11/2545	35	38	ขวด	101

27/11/2545 18:26

Figure B-18 Product Expired Checking Form

PRODUCT LOW QUANTITY

Product Type Selecting

ProdNo	TypeDetail	Brand	Description	LowLimitQty	QtyInstore	SupName
2a108/34(a)	ยาทานกัฉิว/ลดรอยแผล	Smooth E	คัฉิว(small size)	3	0	Siam Makro
2a108/34(b)	ยาทานกัฉิว/ลดรอยแผล	Smooth E	คัฉิว(big size)	3	0	Siam Makro

Print by Type

Exit form

27/11/2545 18:27

Figure B-19 Product Requirement Form

PRODUCT REPORT PREVIEW

Product Type Selecting

บาท/บาท

Preview by Type

Preview All

Exit form

27/11/2545 18:28

Figure B-20 Product Report Preview Form

Figure B-21 Total Purchase Form

Customer

Supplier

Product

Purchasing

Receiving

Selling

User

Exit

TOTAL SALE

Select by Order or Date

Select by

Date

Order No.

From: co00001

To: co00006

Show Record

Show All Record

CustomerNo	CustID	NetTotal	OrderDate	User Name
co00001	c0000	150	23/11/2545	ศรีวิไล งามละเมียด
co00002	c0000	150	23/11/2545	ศรีวิไล งามละเมียด
co00003	c0000	150	23/11/2545	ศรีวิไล งามละเมียด
co00004	c0000	75	23/11/2545	ศรีวิไล งามละเมียด
co00005	c0001	99.75	25/11/2545	ศรีวิไล งามละเมียด
co00006	c0000	150	27/11/2545	ศรีวิไล งามละเมียด

Total sale by order or date

Total Record

6 Record

Total sale amount

774.75 BAHT

Calculate sale

Print Report

Exit form

27/11/2545 18:29

Figure B-22 Total Sale Form



APPENDIX C
REPORT DESIGN

Patiparnosod Drug Store

All Customer Report

Date: 1 ธันวาคม 2545

Page 1 Out of 2

CustomerID: c0001
Name: ปิยาภา ปุททะนิช
Address: 106 ถ.ลาดพร้าว(115) บางกะปิ กทม.
ZipCode: 10240
TelNo: 02-3778367

CustomerID: c0002
Name: ดวงพร เทียมตระกูล
Address: 229/36 ถ.บางนา-ตราด บางนา บางนา กทม.
ZipCode: 10260
TelNo: 02-3994780

CustomerID: c0003
Name: วีรวัฒน์ อุ่นปิติพงษ์
Address: 55/92 ซ.เพชรเกษม(94) บางแค ภาษีเจริญ กทม.
ZipCode: 10500
TelNo: 02-4214807

CustomerID: c0004
Name: รัฐไกร สัมสุขศรีกุล
Address: 35/1 เพชรบุรี พญาไท ราชเทวี กทม.
ZipCode: 10400
TelNo: 02-3994780

CustomerID: c0005
Name: ชวลิตา ไชยภิรมย์

Address: 116 ลาดพร้าว(115) บางกะปิ กทม.
ZipCode: 10240
TelNo: 02-7340448

Number of all customer: 5 Persons



Figure C-1 All Customer Report

Patiparnosod Drug Store

All Supplier Report

Date: 1 ธันวาคม 2545

Page 1 Out of 1

SupID:	SupplierName:	ContactName:	ContactTelNo:
s001	Olic	สมศักดิ์/นันทณี	02-7424321-2
Address:	2535 ถ.สุขุมวิท บางจาก พระโขนง กทม.		
s002	Procter&Gable	ทรงชัย	02-7126240
Address:	622 ชั้น20-22 อาคารเอ็มโพเรียมทาวเวอร์ ถ.สุขุมวิท คลองตัน คลองเตย กทม.		
s003	ไทยนครพัฒนา	เกียรติศักดิ์	02-5892021-8
Address:	94/7 หมู่9 ซ.อัมปะระกอบ ถ.งามวงศ์วาน บางเขน นนทบุรี		
s004	Siam Makro		02-3752781-8
Address:	3498 ตลาดพร้าว คลองจั่น บางกะปิ กทม.		

Number of all Supplier: 4 Lists

Figure C-2 All Supplier Report

Patiparnosod Drug Store

All Product Report

Date: 1 ธันวาคม 2545

Page 1 Out of 5

RegNo: 2a95/35(m)

Type Name: ชาคม/ชาหม่อง

Brand: น้ำมันกวางตุ้ง

Description: น้ำมัน(medium size)

Cost/Unit: 60

Price/Unit: 75

UnitType: ขวด

QtyonSale: 4

QtyinStock: 0

Qtyinstore: 4

Supplier Name: Olic

RegNo: 2a95/35(s)

Type Name: ชาคม/ชาหม่อง

Brand: น้ำมันกวางตุ้ง

Description: ขาน้ำมัน(small size)

Cost/Unit: 35

Price/Unit: 38

UnitType: ขวด

QtyonSale: 5

QtyinStock: 0

Qtyinstore: 5

Supplier Name: Olic

RegNo: 2a970/29

Type Name: ยากระเพาะอาหาร

Brand: Alum milk

Description: ยาน้ำ

Cost/Unit: 28

Price/Unit: 35

UnitType: ขวด

QtyonSale: 3

QtyinStock: 0

Qtyinstore: 3

Supplier Name:

RegNo: 2c23/44

Type Name: ยาคุม/ยาหม่อง

Brand: Vicks Vaporub

Description: ครีมนม

Cost/Unit: 21

Price/Unit: 28

UnitType: คลิป

QtyonSale: 5

QtyinStock: 0

Qtyinstore: 5

Supplier Name: Procter&Gable

RegNo: 1a822/43

Type Name: ยาแก้ไข้ปวดหัว

Brand: Sara

Description: เม็ด(10 เม็ด)

Cost/Unit: 8

Price/Unit: 10

UnitType: แผง

QtyonSale: 5

QtyinStock: 0

Qtyinstore: 5

Supplier Name: ไทยนครพัฒนา

RegNo: 2a133/40(s)

Type Name: ขาแก้คัน/เคล็ดขัดยอก

Brand: Neotica Balm

Description: ครีม(small size)

Cost/Unit: 22

Price/Unit: 30

UnitType: หลอด

QtyonSale: 7

QtyinStock: 0

Qtyinstore: 7

Supplier Name: ไทยนครพัฒนา

RegNo: 2a133/40(m)

Type Name: ขาแก้คัน/เคล็ดขัดยอก

Brand: Neotica Balm

Description: ครีม (medium size)

Cost/Unit: 28

Price/Unit: 40

UnitType: หลอด

QtyonSale: 5

QtyinStock: 5

Qtyinstore: 10

Supplier Name: ไทยนครพัฒนา

RegNo: 1a275/26

Type Name: ขาแก้วหัว/เพ้อภาส

Brand: Actifed

Description: เม็ด(10 เม็ด)

Cost/Unit: 22

Price/Unit: 30

UnitType: แผง

QtyonSale: 2

QtyinStock: 0

Qtyinstore: 2

Supplier Name: Siam Makro

RegNo: 2a108/34(s)

Type Name: ขาเทาแก้ว/ลดรอยแผล

Brand: Smooth E

Description: ครีม(small size)

Cost/Unit: 50

Price/Unit: 55

UnitType: หลอด

QtyonSale: 1

QtyinStock:	0
Qtyinstore:	1
Supplier Name:	Siam Makro
RegNo:	2a108/34(b)
Type Name:	ยาทาแก้ผิว/ลดรอยแผล
Brand:	Smooth E
Description:	ครีม(big size)
Cost/Unit:	65
Price/Unit:	78
UnitType:	หลอด
QtyonSale:	2
QtyinStock:	0
Qtyinstore:	2
Supplier Name:	Siam Makro
Total Product Name:	10 List
Total Product Quantity in Store:	44 Unit

Figure C-3 All Product Report

Patiparnosod Drug Store

Product by Type Report

Date: 1 ธันวาคม 2545

Page 1 Out of 2

Product Type: ยาคุม/ยาหม่อง

RegNo: 2a95/35(m)
Brand: น้ำมันกวางสุ้ง
Description: น้ำมัน(medium size)
UnitCost: 60
UnitPrice: 75
UnitType: ขวด
QtyonSale: 4
QtyinStock: 0
Qtyinstore: 4
SupName: Olic

RegNo: 2a95/35(s)
Brand: น้ำมันกวางสุ้ง
Description: ยาน้ำมัน(small size)
UnitCost: 35
UnitPrice: 38
UnitType: ขวด
QtyonSale: 5
QtyinStock: 0
Qtyinstore: 5
SupName: Olic

RegNo: 2c23/44
Brand: Vicks Vaporub

Description:	ครีม
UnitCost:	21
UnitPrice:	28
UnitType:	คัตีบ
QtyonSale:	5
QtyinStock:	0
Qtyinstore:	5
SupName:	Procter&Gable

Total Product Quantity in Store (by Type) : 14 Unit



Figure C-4 All Product by Type Report

Patiparnosod Drug Store

Product Low Quantity Report

Date: 2 ธันวาคม 2545

Page 1 Out of 1

RegNo:	2a133/40(m)
Brand:	Neotica Balm
TypeDetail:	ชาแก้คัน/เคลือบขัดขอก
UnitCost:	28
UnitType:	หลอด
LowLimitQty:	3
AllProductQty:	0
SupName:	ไทยนครพัฒนา
RegNo:	2a103/38
Brand:	Mybacin
TypeDetail:	ชาอมแก้เจ็บคอ
UnitCost:	8
UnitType:	ซอง
LowLimitQty:	3
AllProductQty:	0
SupName:	Greater Pharma
RegNo:	G361/28
Brand:	โบตัน
TypeDetail:	ชาอมแก้เจ็บคอ
UnitCost:	8
UnitType:	ซอง
LowLimitQty:	4
AllProductQty:	0
SupName:	โอสดสภา
Total Product low Quantity :	0 Unit

Figure C-5 Low Limit Product Report
100

Patiparnosod Drug Store

Product Low Quantity by Type Report

Date: 15 ธันวาคม 2545

Page 1 Out of 1

TypeDetail:	ยาทาแก้สิว/ลดรอยแผล
RegNo:	2a108/34(s)
Brand:	Smooth E
UnitCost:	50
UnitType:	หลอด
AllProductQty:	2
LowLimitQty:	3
SupName:	Siam Makro
TypeDetail:	ยาทาแก้สิว/ลดรอยแผล
RegNo:	2a108/34(b)
Brand:	Smooth E
UnitCost:	65
UnitType:	หลอด
AllProductQty:	1
LowLimitQty:	3
SupName:	Siam Makro
Product Low Quantity(by type) :	3 Unit

Figure C-6 Low Limit Product by Type Report

Patiparnosod Drug Store

All Expired Product(on sale) Report

Date: 1 ธันวาคม 2545

Page 1 Out of 2

RegNo: 2a95/35(m)
Brand: น้ำมันกวางตุ้ง
TypeDetail: ชาดม/ชาหม่อง
Description: น้ำมัน(medium size)
QtyonSale: 4
ExpDate: 1/10/2545
UnitType: ขวด

RegNo: 2a133/40(s)
Brand: Neotica Balm
TypeDetail: ยาแก้คัน/เคล็ดขัดยอก
Description: ครีม(small size)
QtyonSale: 7
ExpDate: 1/11/2545
UnitType: หลอด

RegNo: 2a133/40(m)
Brand: Neotica Balm
TypeDetail: ยาแก้คัน/เคล็ดขัดยอก
Description: ครีม (medium size)
QtyonSale: 5
ExpDate: 1/10/2545
UnitType: หลอด

RegNo: 2a108/34(s)
Brand: Smooth E
TypeDetail: ขาทาแก้ผิว/ลดรอยแผล
Description: ครีม(small size)
QtyonSale: 1

ExpDate: 21/11/2545
UnitType: หลอด

Total all Expired Product(on sale): 17 Unit



Figure C-7 All Expired Product (on sale) Report

Patiparnosod Drug Store

All Expired Product(in stock) Report

Date: 1 ธันวาคม 2545

Page 1 Out of 1

SoNo:	so00017
RegNo:	2a133/40(m)
Brand:	Neotica Balm
TypeDetail:	ยาแก้คัน/เกสึดขัดขอก
Description:	ครีม (medium size)
Qty:	5
ExpDateStock:	17/10/2545
UnitType:	หลอด
Total all Expired Product(in stock):	5 Unit



Figure C-8 All Expired Product (in stock) Report

Patiparnosod Drug Store

Expired Product by Type(on sale) Report

Date: 2 ธันวาคม 2545

Page 1 Out of 1

TypeDetail:	ยาแก้คัน/เกล็ดขัดยอก
RegNo:	2a133/40(s)
Brand:	Neotica Balm
Description:	ครีม(small size)
QtyonSale:	0
ExpDate:	1/11/2545
UnitType:	หลอด
TypeDetail:	ยาแก้คัน/เกล็ดขัดยอก
RegNo:	2a133/40(m)
Brand:	Neotica Balm
Description:	ครีม (medium size)
QtyonSale:	0
ExpDate:	1/10/2545
UnitType:	หลอด

Total Expired Product by Type(on sale): 0 Unit

Figure C-9 Expired Product by Type (on sale) Report

Patiparnosod Drug Store

Expired Prooduct by Type(in stock) Report

Date: 1 ธันวาคม 2545

Page 1 Out of 1

TypeDetail:	ยาแก้คัน/เกล็ดขัดยอก
SoNo:	so00017
RegNo:	2a133/40(m)
Brand:	Neotica Balm
Description:	ครีม (medium size)
Qty:	5
ExpDateStock:	17/10/2545
UnitType:	หลอด
Total Expired Product by Type(in stock):	5 Unit



Figure C-10 Expired Product by Type (in stock) Report

Patiparnosod Drug Store

Total Purchase by Date Report

Date: 1 ธันวาคม 2545

Page 1 Out of 1

PaymentDate:	30/11/2545	OrderDate:	30/11/2545			
SupordNo:	so00015	Supplier Name:	Siam Makro			
ReceiveDate:	30/11/2545	User Name:	ศรีวิไล งามละเมียด			
RegisterNo:	Brand:	Description:	Cost/Unit:	Qty:	UnitType:	TotalCost:
2a108/34(b)	Smooth E	ครีม(big size)	฿65.00	4	หลอด	฿260.00
NetTotal:					฿260.00	
PaymentDate:	30/11/2545	OrderDate:	30/11/2545			
SupordNo:	so00016	Supplier Name:	ไทยนครพัฒนา			
ReceiveDate:	30/11/2545	User Name:	ศรีวิไล งามละเมียด			
RegisterNo:	Brand:	Description:	Cost/Unit:	Qty:	UnitType:	TotalCost:
2a133/40(m)	Neotica Balm	ครีม (medium size)	฿28.00	5	หลอด	฿140.00
NetTotal:					฿140.00	
PaymentDate:	30/11/2545	OrderDate:	30/11/2545			
SupordNo:	so00017	Supplier Name:	ไทยนครพัฒนา			
ReceiveDate:	30/11/2545	User Name:	ศรีวิไล งามละเมียด			
RegisterNo:	Brand:	Description:	Cost/Unit:	Qty:	UnitType:	TotalCost:
2a133/40(m)	Neotica Balm	ครีม (medium size)	฿28.00	5	หลอด	฿140.00
NetTotal:					฿140.00	
Total Purchase:					฿540.00	

Figure C-11 Total Purchase by Date Report

Patiparnosod Drug Store

Total Purchase by Order No. Report

Date: 1 ธันวาคม 2545

Page 1 Out of 1

SupordNo:	so00003	PaymentDate:	28/11/2545			
OrderDate:	23/11/2545	User Name:	ศรีวิไล งามละเมียด			
ReceiveDate:	28/11/2545	Supplier Name:	Olic			
RegNo:	Brand:	Description:	Cost/Unit	Qty	UnitType:	TotalCost
2a95/35(s)	น้ำมันกวางตุ้ง	ขาน้ำมัน(small size)	฿35.00	5	ขวด	฿175.00
NetTotal:						฿475.00
SupordNo:	so00004	PaymentDate:	25/11/2545			
OrderDate:	25/11/2545	User Name:	อรุณกัน ปฏิภาณเทวา			
ReceiveDate:	25/11/2545	Supplier Name:	ไทยนครพัฒนา			
RegNo:	Brand:	Description:	Cost/Unit	Qty	UnitType:	TotalCost
2a133/40(s)	Neotica Balm	ครีม(small size)	฿22.00	5	หลอด	฿110.00
NetTotal:						฿110.00
SupordNo:	so00005	PaymentDate:	25/11/2545			
OrderDate:	25/11/2545	User Name:	ศรีวิไล งามละเมียด			
ReceiveDate:	25/11/2545	Supplier Name:	Procter&Gable			
RegNo:	Brand:	Description:	Cost/Unit	Qty	UnitType:	TotalCost
2c23/44	Vicks Vaporub	ครีม	฿21.00	5	ตลับ	฿105.00
NetTotal:						฿105.00
Total Purchase:						฿690.00

Figure C-12 Total Purchase by Order Number Report

Patiparnosod Drug Store

Total Sale by Date Report

Date: 1 ธันวาคม 2545
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OrderDate:	23/11/2545	CustomerID:	c0000			
Customer order No:	co00001	User Name:	ศรีวิไล งามละเมียด			
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice:	TotalPrice:
2a95/35(m)	น้ำมันกวางตุ้ง	น้ำมัน(medium size)	2	ขวด	฿75.00	฿150.00
NetTotal:					฿150.00	
OrderDate:	23/11/2545	CustomerID:	c0000			
Customer order No:	co00002	User Name:	ศรีวิไล งามละเมียด			
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice:	TotalPrice:
2a95/35(m)	น้ำมันกวางตุ้ง	น้ำมัน(medium size)	2	ขวด	฿75.00	฿150.00
NetTotal:					฿150.00	
OrderDate:	23/11/2545	CustomerID:	c0000			
Customer order No:	co00003	User Name:	ศรีวิไล งามละเมียด			
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice:	TotalPrice:
2a95/35(m)	น้ำมันกวางตุ้ง	น้ำมัน(medium size)	2	ขวด	฿75.00	฿150.00
NetTotal:					฿150.00	
OrderDate:	23/11/2545	CustomerID:	c0000			
Customer order No:	co00004	User Name:	ศรีวิไล งามละเมียด			
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice:	TotalPrice:
2a95/35(m)	น้ำมันกวางตุ้ง	น้ำมัน(medium size)	1	ขวด	฿75.00	฿75.00
NetTotal:					฿75.00	
Total Sale:					฿525.00	

Figure C-13 Total Sale by Date Report

Patiparnosod Drug Store

Total Sale by Order NO. Report

Date: 1 ธันวาคม 2545

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Customer order No:		co00001	CustomerID:		c0000	
OrderDate:		23/11/2545	User Name:		ศรีวิไล งามละเมียด	
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice	TotalPrice
2a95/35(m)	น้ำมันกวางลุ้ง	น้ำมัน(medium size)	2	ขวด	75	150
NetTotal:					฿150.00	
Customer order No:		co00002	CustomerID:		c0000	
OrderDate:		23/11/2545	User Name:		ศรีวิไล งามละเมียด	
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice	TotalPrice
2a95/35(m)	น้ำมันกวางลุ้ง	น้ำมัน(medium size)	2	ขวด	75	150
NetTotal:					฿150.00	
Customer order No:		co00003	CustomerID:		c0000	
OrderDate:		23/11/2545	User Name:		ศรีวิไล งามละเมียด	
RegNo:	Brand:	Description:	Qty:	UnitType:	UnitPrice	TotalPrice
2a95/35(m)	น้ำมันกวางลุ้ง	น้ำมัน(medium size)	2	ขวด	75	150
NetTotal:					฿150.00	
Total Sale:					฿450.00	

Figure C-14 Total Sale by Order Number Report


Patiparnosod Drug Store

Receipt No.:	co00012	UserID:	u01
Date:	1/12/2545	Username:	ศรีวิไล งามละเมียด
Customer ID:	c0001	Name:	ปียาภา ปุตะวนิช
Address:	106 ถ.ลาดพร้าว(115) บางกะปิ กทม.	ZipCode:	10240

Register No.:	Brand:	Price/Unit:	Qty:	UnitType:	Discount:	TotalPrice:
2a970/29	Alum milk	฿35.00	1	ขวด	2	฿33.00
2a95/35(m)	น้ำมันกวางลั้ง	฿75.00	1	ขวด	4	฿71.00
TotalDiscount(5%):					฿6.00	
Vat:					฿6.80	
NetTotal(vat inc.):					฿104.00	

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- The watermark is a large, circular logo for Assumption University of Thailand. It features a central shield with a cross and the letters 'A M' and 'D S'. The shield is flanked by two figures. Below the shield is a banner with the text 'LABOR OMNIA VINCIT'. The outer ring of the logo contains the text 'ASSUMPTION UNIVERSITY OF THAILAND' at the top and 'มหาวิทยาลัยอัสสัมชัญ' at the bottom, with 'SINCE 1969' in the center of the bottom arc.

SYSTEM INSTALLATION GUIDE

1. Insert CD-ROM into CD-ROM Drive.
2. Open folder Patiparnosod DrugStore System in CD-ROM.
3. Open folder Support, Copy DrugSystem Database file(drugsystem.mdb) to drive C:.
4. Double click at setup icon in folder Patiparnosod DrugStore System.
5. Follow installation guide.
6. You can run program by click Start menu > Programs > Patiparnosod Drugsystem
> Patiparnosod DrugStore System.exe.



