

Practical Development of Information System in Business Context:
System revolution project for V.Screen Industrial Supply Co., Ltd.

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

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Project Name: Practical Internship System revolution project, V.Screen
Industrial Supply Co., Ltd

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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 as the 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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I. INTRODUCTION

1.1. Background of Organization

The company acts as an intermediary that receives orders from the customer such orders are coat the pan, repair the damaged wall by recovering cement and other kinds of coating and repairing items. After receiving an order, the company finds the factory or the construction company that'll be the solution for the customer's order, then the company sends the customer's order to that factory or company to let it estimate the total cost of customer's order. The company will markup the estimate cost with the desired amount to be the cost of the order then offer it to the customer. The company also sells the chemical product such as silicon and coating liquid by ordering the chemical product from the supplier and stock it as inventory for the sale purpose.

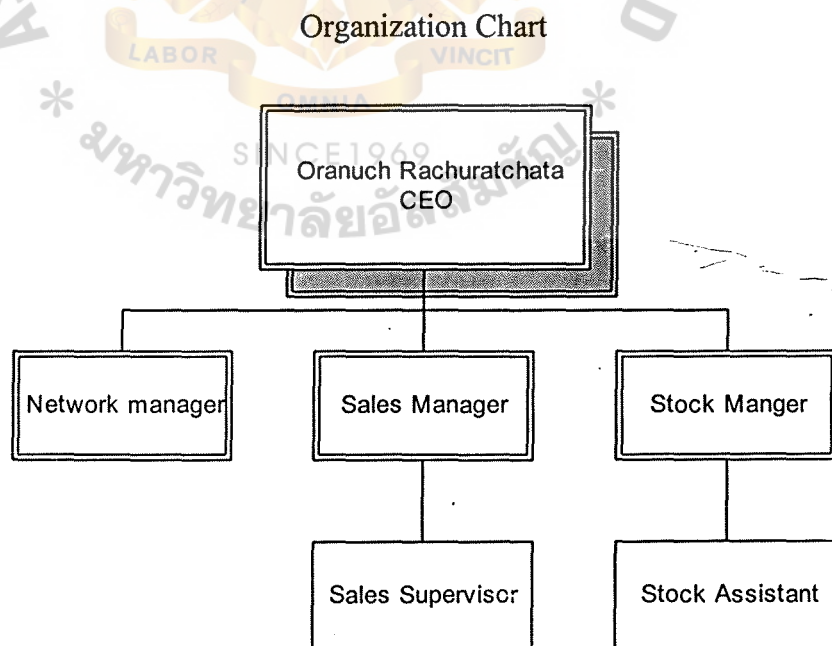


Figure 1-1 Organization Chart

Department Chart

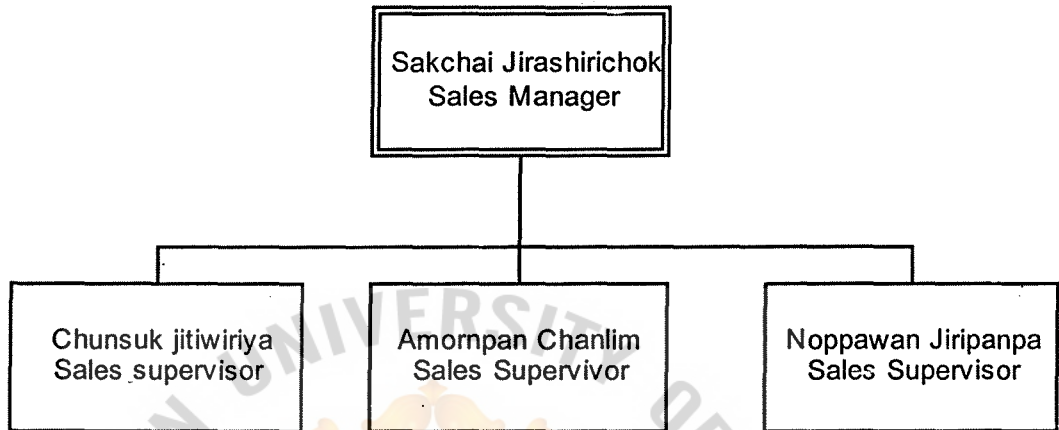


Figure 1-2 Department Chart of V.Screen Industrial Supply

In Sales Department we have 3 supervisor to find the work for company. All of the tree of the employee have to report to the sales manager. After manager get report or work from each employee than sales manager will report to the Ceo of the company later on.

1.2 Objective Of the System

- (1) For support the customer requirement
- (2) Reduce the paper waste
- (3) Manage the information to be automatic
- (4) Increase the performance for competitive
- (5) Prevent the problem of redundancy
- (6) Accuracy in calculation for accounting

1.3 Scope of the System

- (1) System can maintain the information customer , supplies and products.
- (2) Search button for specific customers, suppliers, and products.
- (3) Print report to manager.
- (4) Password for security level.
- (5) Detect Low limit of Item.
- (6) The system will automatically cut inventories from stock.
- (7) Calculate the profit for accountants by daily, monthly, and yearly report.
- (8) Message Alert when inventory below than setting.
- (9) System calculate support the rental

1.4 Project Plan

Project plan for Evolution program study the existing system for the first week of November and second week for identify the existing problem and third week for existing data flow diagram. Define the objective and scope, hardware and software requirement finished within the last week of November. We finished process specification and Entity relationship diagram in the second week of December. Database design process specification, data flow diagram and data dictionary in the second week of January. Interface and report design in the third of January Coding finished within the first month of February. Testing plan for third week of February. Write-up and document are finished in the last week of February.

No.	Task Name	November				December				January				February			
		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.	Data Flow Diagram																
8.	Entity-Relationship Diagram																
9.	Database Design																
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 4 Project Plan for V.Screen Industrial Supply Co., Ltd. System revolution project

II. THE EXISTING SYSTEM

2.1 Background of Existing System

In the existing system of company, it uses a lot of paper to write down information of customer and collect data of sale department in the book. When there's a need of information, the personnel must search through the book. It uses the calculator to perform a performance report of the company. It has to use one personnel to draw a graph for see the past performance.

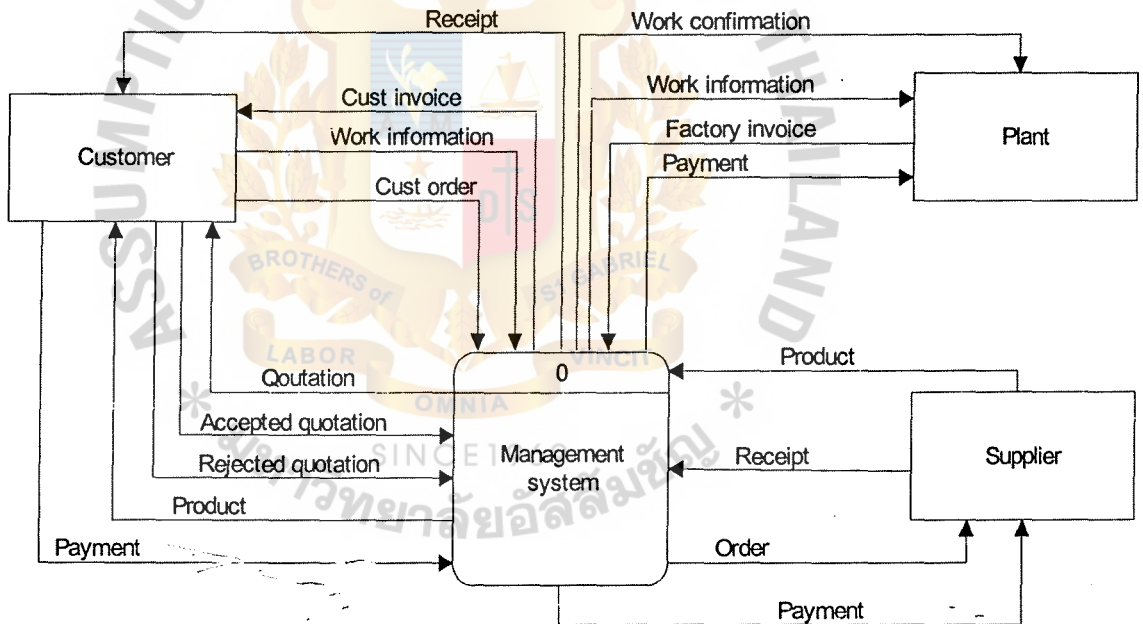


Figure 2-1 Context Diagram of Existing System

2.2 Problem definition

(1) Difficulty finding the desired information

In the existing system the company keeps all information about customer, supplier, employee and sale in the paper, so it's very difficult for the company's officer to find the desired information from paper when needs.

(2) Calculation problem

It's very important when we have much information about sales and CEO of the company or manager wants to see statistic of sale in last month or last 6 month. Personnel have to calculate the figure by the calculator that's very time consuming and the mistake can easily happen.

(3) A lot of paper problem

There's also a tendency that there'll be a lot of paper in the future and they can be loss and damaged if they aren't well kept.

(4) Difficulty to checking stock

If the personnel want to check the stock on hand of the inventory, he/she must count the physical inventory one by one for knowing the total number of stock on hand of each product.

III. THE PROPOSED SYSTEM

3.1 System Specification

(1) Hardware Requirements

Table 3-1 Hardware Requirements

HAREWARE	SPECIFICATION
CPU	Intel Pentium 90
RAM	SDRam 32 MB
Hard disk	10 Gigabytes
CD-ROM	Minimum Speed 2x
VGA Card	TNT2-64 MB
Main board	Soltech A6J445
Monitor	17" Flatron

Our group decides to use this set of hardware because it is suitable with the system and we also use it to get the results efficiency and effectively. The total cost of this set of hardware is 22,000 Baht, which is very suitable with its capacity. The CPU that we use is Pentium III 800 MHZ which is more suitable with our system than the other models when compare with its prices and the necessity for the tasks. We use SDRam 32 MB, Hard disk capacity that we use is 10 gigabytes, VGA is TNT2-64MB which gives the high quality scenes. For the main board, we use Soltech A6J445 which is sound on board, so there are no need to add any sound card. Monitor is LG 17" Flatron, mouse and keyboard is A4 Tech. This spec was suitable with the system and can used for a long time with no need to upgrade.

(2) Software Requirements

Table 3-2 Software Requirements

SOFTWARE	SPECIFICATION
Operating System	Windows 98 or higher
Application	1. Microsoft Visual Basic 6 2. Microsoft Office 2000 3. Crystal Report 9.2 4. MDAC 2.5 or Upper

We decide to support the old version operating system of windows to test that program can run in the old version of windows and the newest version of windows because it's may have problem when it create in the one windows but it can't open in the other version of windows. Our programs that create by Microsoft visual basic 6 we decide to used this program because it's the famous program and our group similar with it in the advance application subject. And we use Microsoft office 2000 to do some document. For example like Microsoft word, Microsoft power point to make a presentation. . Also we plan to use Adobe Photoshop to manage all of about the pictures to make effect of change the picture for our purpose. Microsoft Visio to draw the Dataflow diagram in level 0 and level 1 or all kind of chart. Because Visio that user can edit some work from Visio files that we provide.

3.2 System Design

(1) Data Flow Diagram

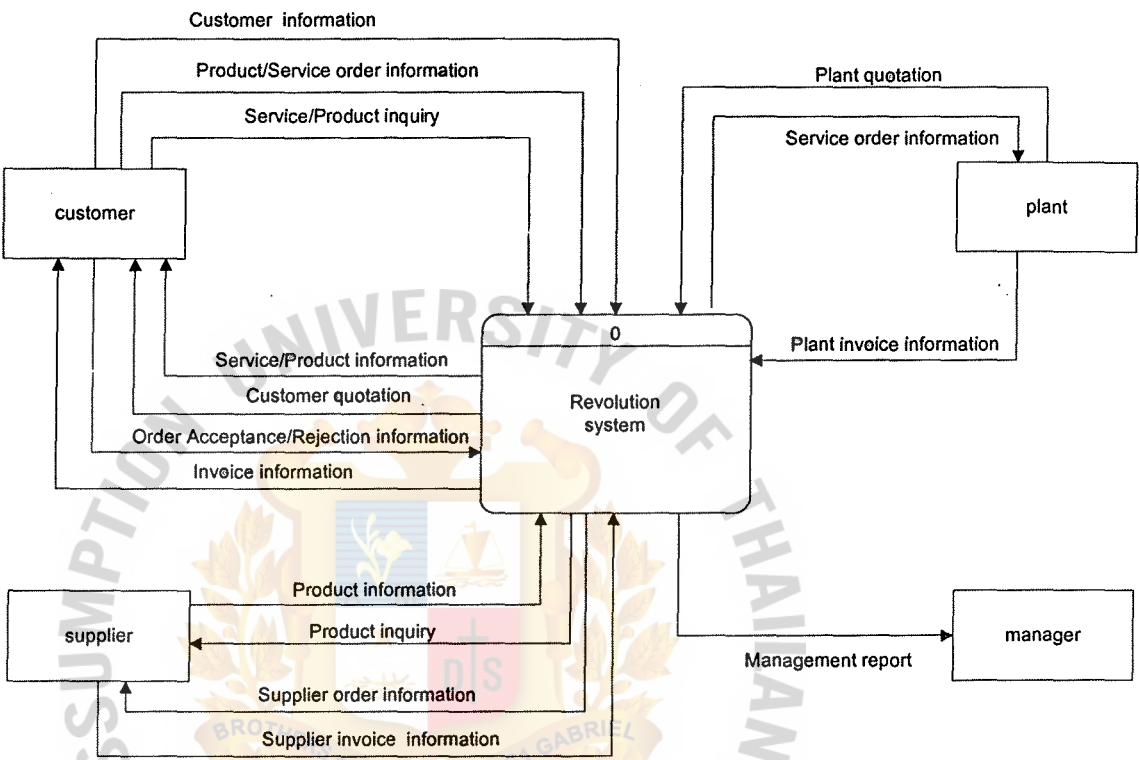


Figure 3-1 Context Diagram

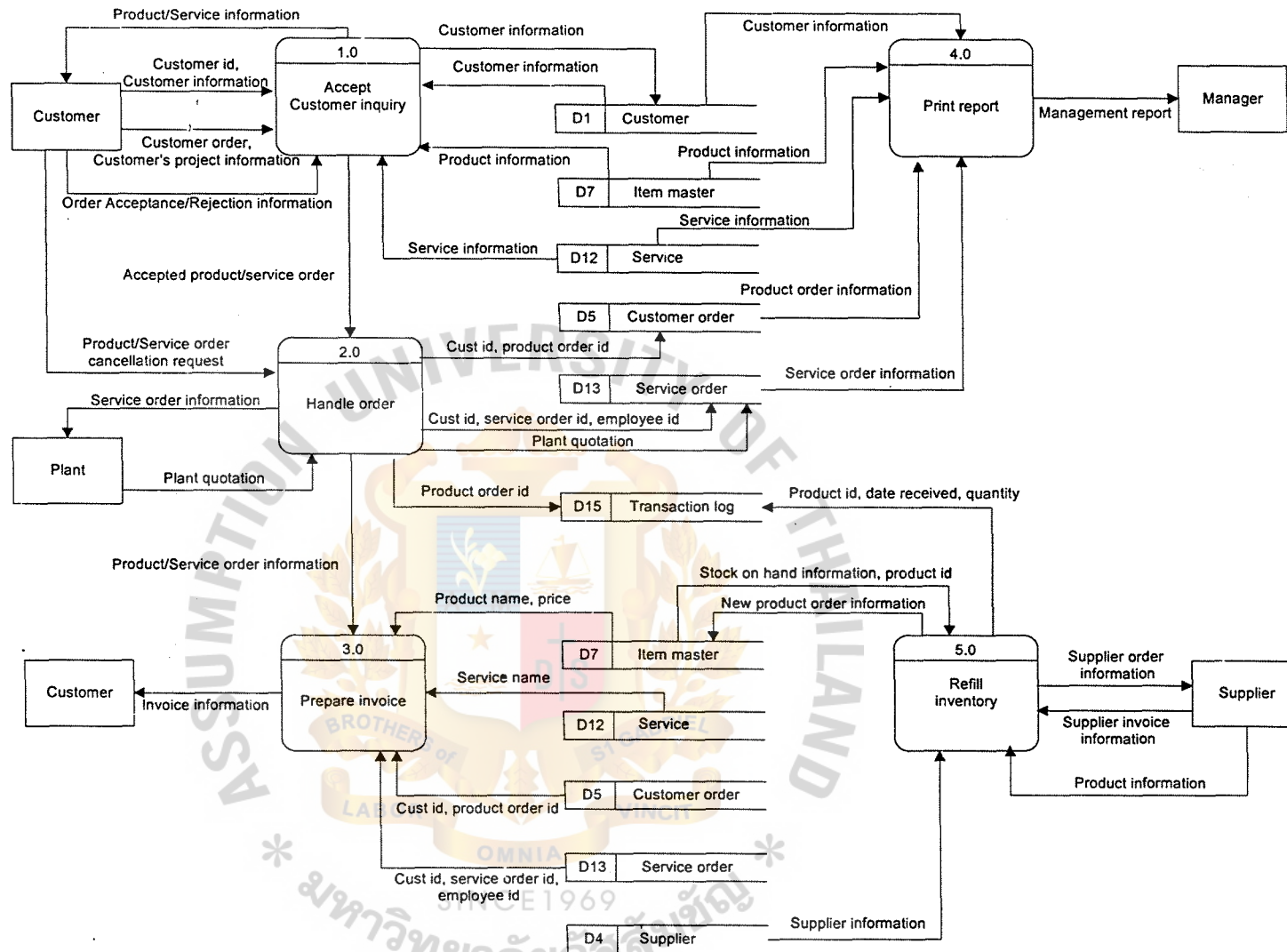


Figure 3-2 Data Flow Diagram – Level 0

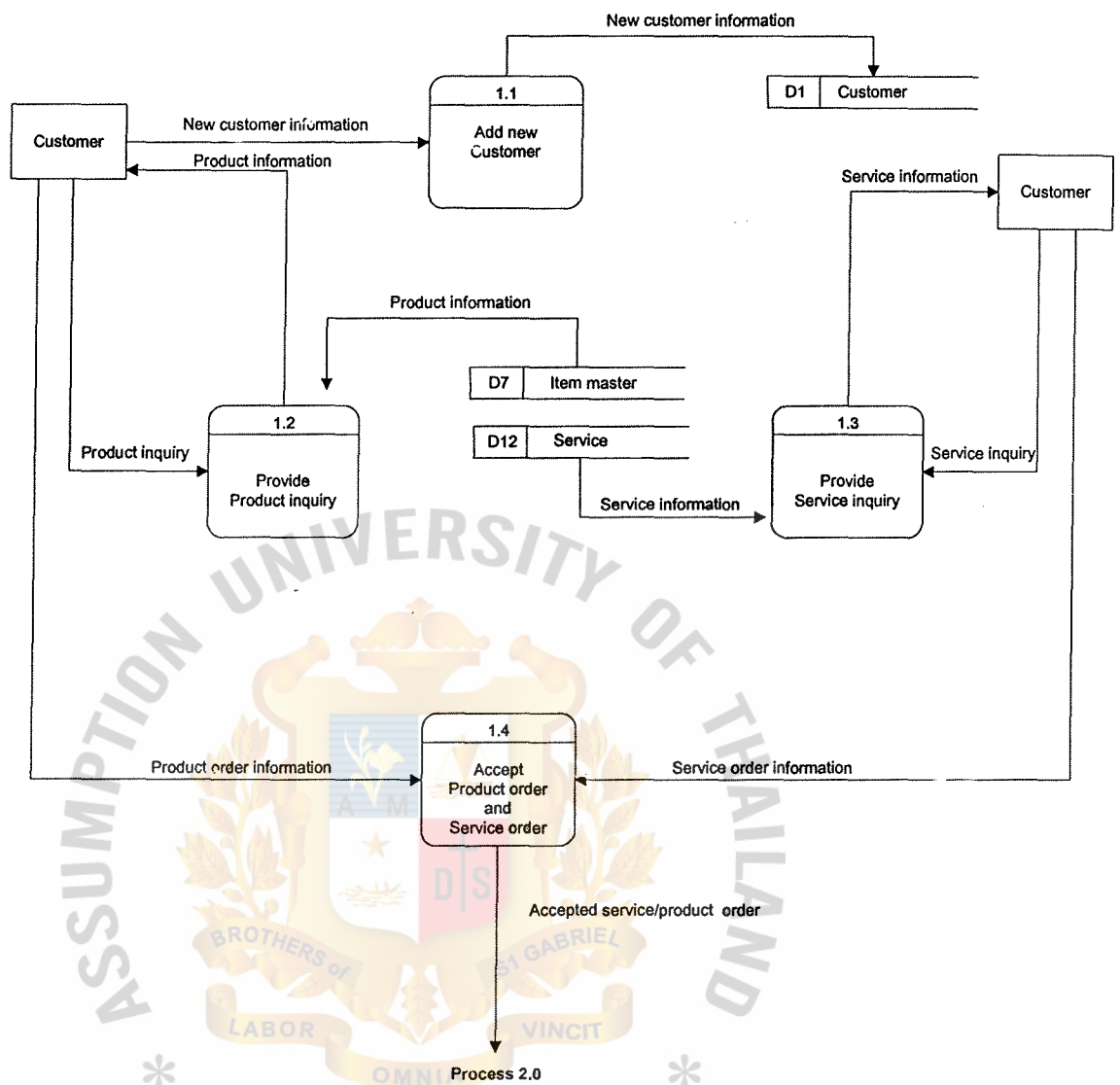


Figure 3-3 Data Flow Diagram – Level 1 for Process 1

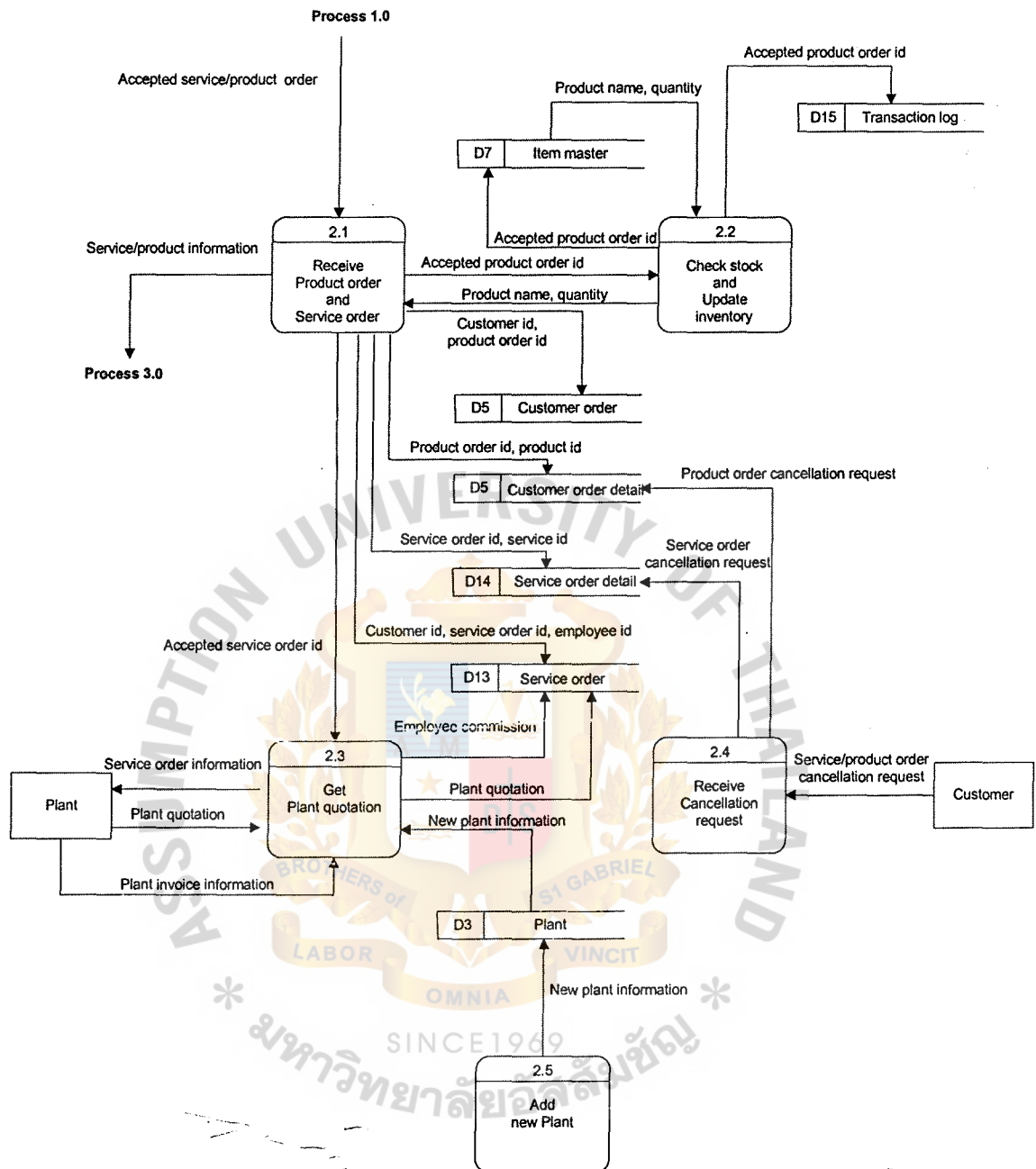


Figure 3-4 Data Flow Diagram – Level 1 for Process 2

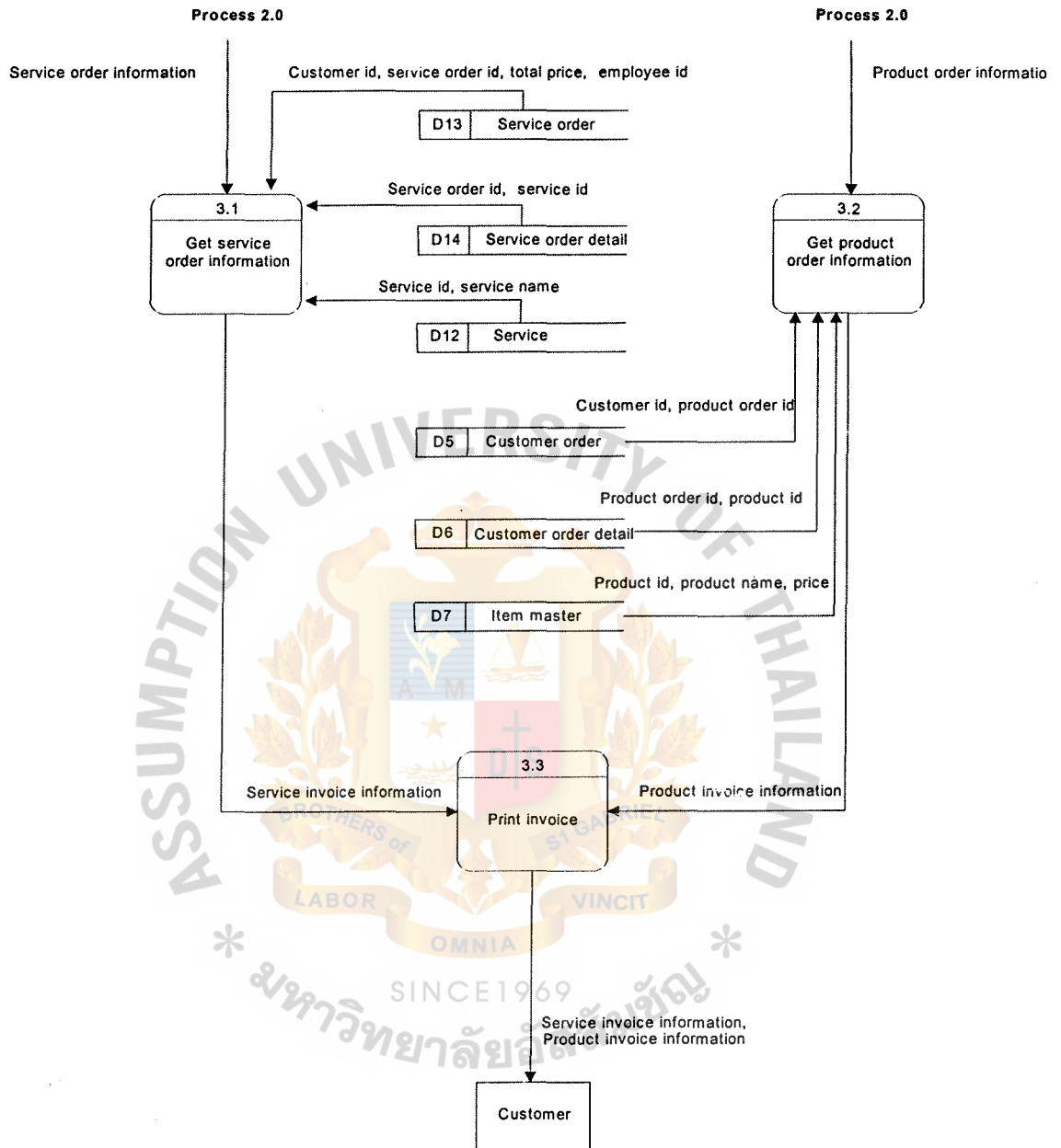


Figure 3-5 Data Flow Diagram – Level 1 for Process 3

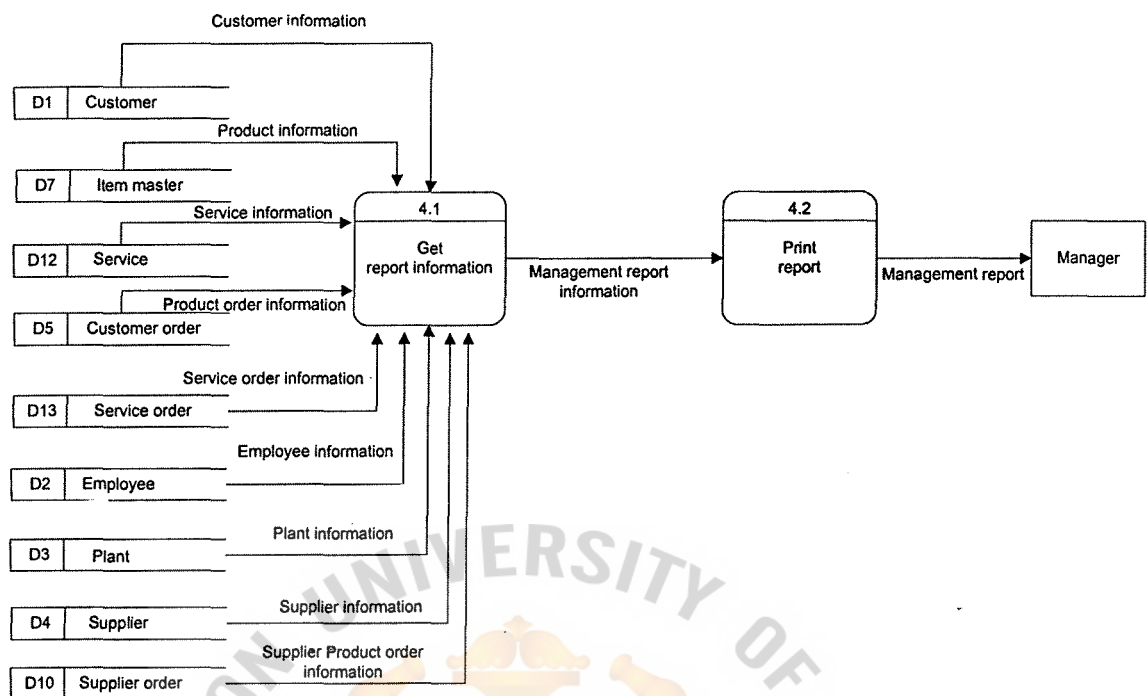


Figure 3-6 Data Flow Diagram – Level 1 for Process 4

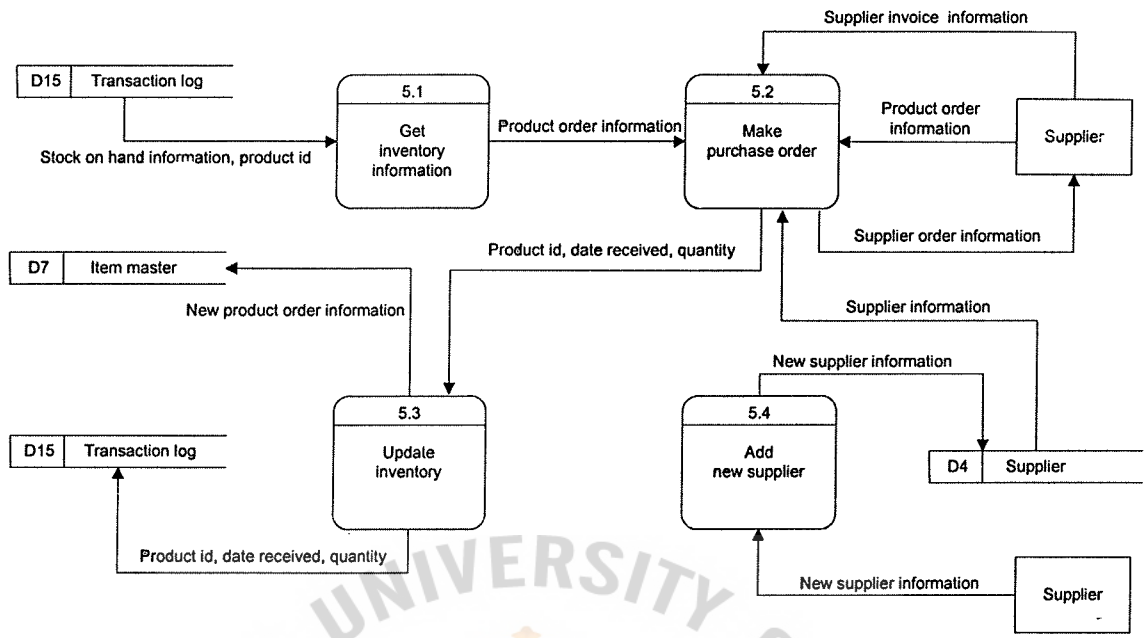


Figure 3-7 Data Flow Diagram – Level 1 for Process 5

(2) Entity-Relationship Diagram

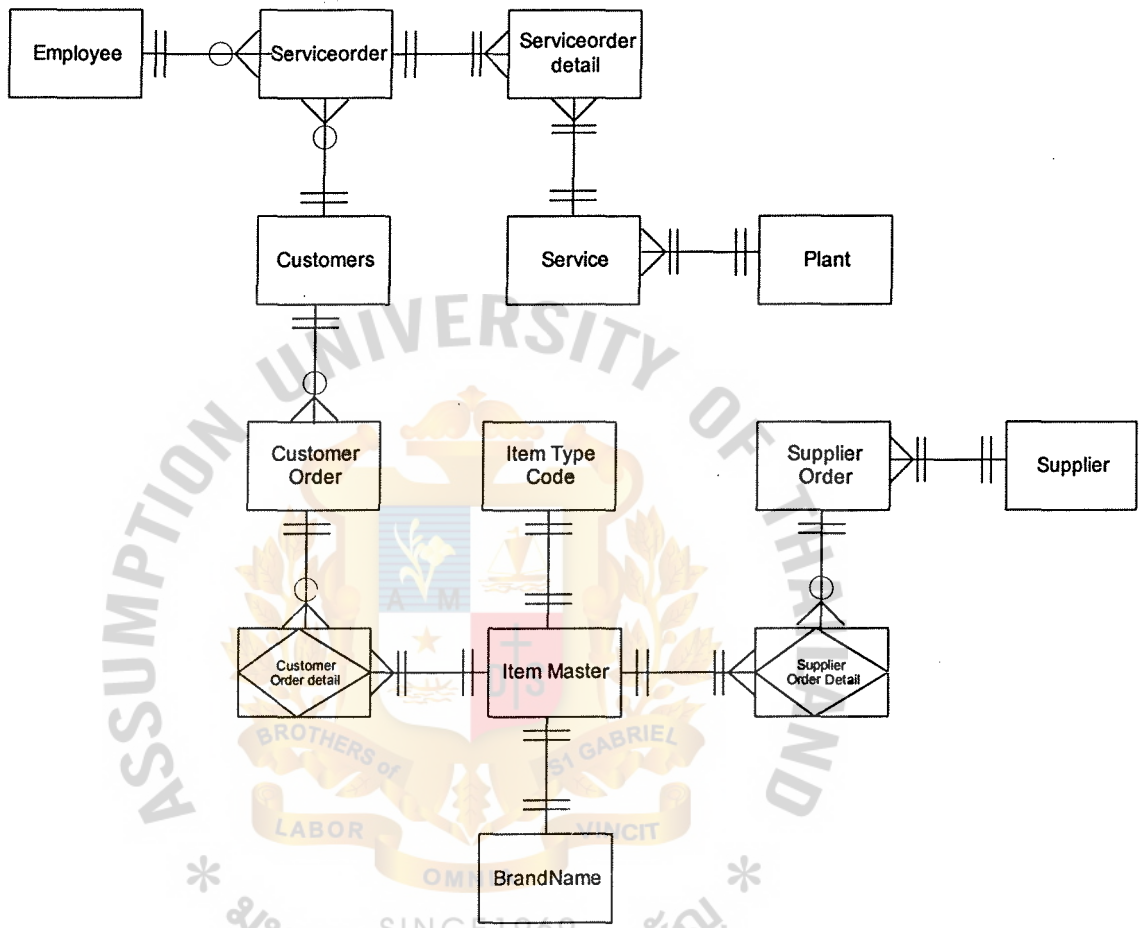


Figure 3-8 Entity-Relationship Diagram

(3) Database design

In design the database, we have been designing 14 database tables which composed of Customer Table, Item Master Table, Items Type Table, Supplier Table, Employee Table, Plant Table, Customer Order Table and Customer Order Detail Table, we design it to keep the data that useful in the company's operation.

The list of databases tables are as the follows.

Table A-1 Customer Table: Keep customer records

Table A-2 Employee table : Keep employee records.

Table A-3 Supplier Table : Keep supplier records.

Table A-4 Plant Table: Keep Plant records

Table A-5 Item Master Table: Keep Product records

Table A-6 Item Type : Record type of Item

Table A-7 Item Grade : Record quality of Item

Table A-8 Customer Order Table: Keep customer order records

Table A-9 Customer Order Detail Table: Keep Detail customer order

Table A-10 Service Table : Keep record of service.

Table A-11 Service Order Table : Record service order from customers.

Table A-12 Service order detail Table :-Detail of service order

Table A-13 Supplier Order Table :Record Order to suppliers.

Table A-14 Supplier Order detail Table : Detail of Supplier Order

All of Databases Design are exhibited in Appendix A.

(4) Process Specification

Table 3-3 Process Specification for Process 1.0

Process Name:	Accept Customer inquiry
Data In:	<ul style="list-style-type: none"> (1) Customer identification, new customer information (2) Service/product inquiry (from customer) (3) Service/product order information (to customer) (4) Order Acceptance/rejection information (5) Customer information (6) Product information (from customer) (7) Service information (from customer)
Data Out:	<ul style="list-style-type: none"> (1) Service/product information (to customer) (2) Customer information (3) Accepted service/product order (from customer)
Process:	<ul style="list-style-type: none"> (1) Receive customer's inquiry (2) Give service/product information to the customer (3) Receive customer order for service and product (4) Add new customer
Attachment:	<ul style="list-style-type: none"> (1) Customer (2) Data Store D1 (3) Data Store D7 (4) Data Store D12

Table 3-4 Process Specification for Process 1.1

Process Name:	Add new Customer
Data In:	(1) New customer information
Data Out:	(1) New customer information
Process:	(1) Get new customer information and keep it in the Data Store D1
Attachment:	(1) Customer (2) Data Store D1

Table 3-5 Process Specification for Process 1.2

Process Name:	Provide product inquiry
Data In:	(1) Product inquiry (2) Product information
Data Out:	(1) Product information
Process:	(1) Receive customer's product inquiry (2) Get the product information (3) Send the product information to the customer
Attachment:	(1) Customer (2) Data Store D7

Table 3-6 Process Specification for Process 1.3

Process Name:	Provide service inquiry
Data In:	(1) Service inquiry (2) Service information
Data Out:	(1) Service information
Process:	(1) Receive customer's service information inquiry (2) Get the service information (3) Send the service information to the customer
Attachment:	(1) Customer (2) Data Store D12

Table 3-7 Process Specification for Process 1.4

Process Name:	Accept product order and service order
Data In:	(1) Product order information (2) Service order information
Data Out:	(1) Accepted service/product order
Process:	(1) Get service/product order information then send it to process 1.2
Attachment:	(1) Customer

Table 3-8 Process Specification for Process 2.0

Process Name:	Handle order
Data In:	<ul style="list-style-type: none"> (1) Accepted service/product order (from process 1.0) (2) Plant quotation (from plant) (3) Plant invoice information (from plant) (4) Service/product order cancellation request (from customer) (5) Plant information (from plant)
Data Out:	<ul style="list-style-type: none"> (1) Service order information (to Data Store D13) (2) Customer identification, product order id (to Data Store D5) (3) Customer identification, service order id, employee identification (to Data Store D13) (4) Plant quotation (5) Product order id (6) Service/product order information (to process 3.0) (7) Customer quotation (to customer)
Process:	<ul style="list-style-type: none"> (1) Receive Accepted service/product order from process 1.0 (2) Get quotation from plant (3) Keep service order information and plant quotation in Data Store D13 (4) Send quotation to the customer

	<p>(5) Keep product order information in Data Store D5</p> <p>(6) Receive service and product order cancellation Update service and product order cancellation</p>
Attachment:	<p>(1) Plant</p> <p>(2) Customer</p> <p>(3) Data Store D5</p> <p>(4) Data Store D13</p> <p>(5) Data Store D15</p> <p>(6) Data Store D3</p>

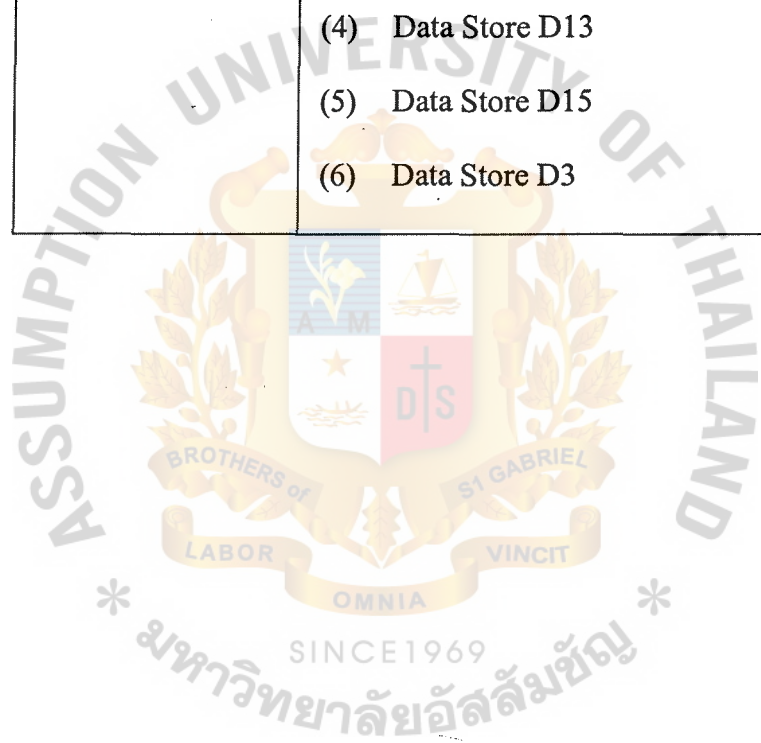


Table 3-9 Process Specification for Process 2.1

Process Name:	Receive product order and service order
Data In:	(1) Accepted service/product order (2) Product name and quantity
Data Out:	(1) Service order information (2) Accepted service order id (3) Accepted product order id (4) Customer id, product order id (5) Product order id, product id (6) Service order id, service id (7) Customer identification, service order id, employee identification
Process:	(1) Receive Accepted service/product order from process 1.0 (1) Keep service order information customer information and employee information in Data Store D13 (2) Keep service order information and service information in Data Store D14 (3) Keep product order and product information in Data Store D5 (4) Keep customer information and product order information in Data Store D5 (5) Send accepted product order information to the process 2.2

	<p>(6) Send Service/product information to process 3.0</p> <p>(7) Send accepted service order information to the process 2.3</p>
Attachment:	<p>(1) Data Store D5</p> <p>(2) Data Store D13</p> <p>(3) Data Store D14</p> <p>(4) Data Store D3</p>



Table 3-10 Process Specification for Process 2.2

Process Name:	Check stock and Update inventory
Data In:	(1) Product name, quantity (2) Accepted product order id
Data Out:	(1) Accepted product order id (2) Product name, quantity (3) Accepted product order id
Process:	(1) Check inventory to see it's enough for the order (2) Update inventory according to the number of product sale
Attachment:	(1) Data Store D15 (2) Data Store D7

Table 3-11 Process Specification for Process 2.3

Process Name:	Get Plant quotation
Data In:	<ul style="list-style-type: none"> (1) Accepted service order id (2) Plant quotation (3) Plant invoice information (4) Plant information
Data Out:	<ul style="list-style-type: none"> (1) Service order information (2) Customer quotation (3) Employee commission (4) Plant quotation
Process:	<ul style="list-style-type: none"> (1) Receive accepted service order id from process 2.2 (2) Get plant information to find the suitable plant and send service information to the plant for plant quotation (3) Keep plant quotation in Data Store D13 and send the quotation to the customer (4) Receive plant invoice and calculate commission for the employee who responsible for the project
Attachment:	<ul style="list-style-type: none"> (1) Plant (2) Customer (3) Data Store D3 (4) Data Store D13

Table 3-12 Process Specification for Process 2.4

Process Name:	Receive Cancellation request
Data In:	(1) Service/product order cancellation request
Data Out:	(1) Product order cancellation request (2) Service order cancellation request
Process:	(1) Receive service and product order cancellation request from the customer (2) Cancel the service and update the data in Data Store D14 (3) Cancel the product and update the data in Data Store D5
Attachment:	(1) Customer (2) Data Store D5 (3) Data Store D14

Table 3-13 Process Specification for Process 3.0

Process Name:	Prepare invoice
Data In:	(1) Service/product order cancellation request
Data Out:	(1) Service/product order information (from process 2.0) (2) Product name, price (Data Store D7) (3) Service name (Data Store D2) (4) Customer identification, product order id (Data Store D5) (5) Customer identification, service order id, employee identification (Data Store D13)
Process:	(1) Receive service and product order information from process 2.0 (2) Ger the service and product information according to the service and product order information from the Data Store D13, Data Store D5, Data Store D12 and Data Store D7
Attachment:	(1) Customer (2) Data Store D5 (3) Data Store D7 (4) Data Store D12 (5) Data Store D13

Table 3-14 Process Specification for Process 3.1

Process Name:	Get service order information
Data In:	(1) Service order information (2) Customer identification, service order id, total price, employee identification (3) Service order id, service id (4) Service id, service name
Data Out:	(1) Service invoice information
Process:	(1) Receive service order information from process 2.0 (2) Get data according to the service order information from Data Store D12, Data Store D13, Data Store D14 (3) Send those data to the process 3.3
Attachment:	(1) Data Store D12 (2) Data Store D13 (3) Data Store D14

Table 3-15 Process Specification for Process 3.2

Process Name:	Get product order information
Data In:	(1) Product order information (2) Customer identification, product order id (3) Product order id, product id (4) Product id, product name, price
Data Out:	(1) Product invoice information
Process:	(1) Receive product order information from process 2.0 (2) Get data according to the product order information from Data Store D5, Data Store D6, Data Store D7 (3) Send those data to the process 3.3
Attachment:	(4) Data Store D5 (5) Data Store D6 (6) Data Store D7

Table 3-16 Process Specification for Process 3.3

Process Name:	Print invoice
Data In:	(1) Service invoice information (2) Product invoice information
Data Out:	(1) Service invoice information, (2) Product invoice information
Process:	(1) Receive service invoice information from process 3.1 (2) Receive product invoice information from process 3.2 (3) Print service invoice and send to the customer (4) Print product invoice and send to the customer
Attachment:	(1) Customer

Table 3-17 Process Specification for Process 4.0

Process Name:	Print report
Data In:	<ul style="list-style-type: none"> (1) Customer information (2) Product information (3) Service information (4) Product order information (5) Service order information
Data Out:	(1) Management report
Process:	<ul style="list-style-type: none"> (1) Get the desired information for making the report form Data Store D1, Data Store D5, Data Store D7, Data Store D12, Data Store D13, (2) Print the management report according the desired information and send to the manager
Attachment:	<ul style="list-style-type: none"> (1) Manager (2) Data Store D1 (3) Data Store D5 (4) Data Store D7 (5) Data Store D12 (6) Data Store D13

Table 3-18 Process Specification for Process 4.1

Process Name:	Get report information
Data In:	<ul style="list-style-type: none"> (1) Customer information (2) Product information (3) Service information (4) Product order information (5) Service order information (6) Employee information (7) Plant information (8) Supplier information (9) Supplier Product order information
Data Out:	(1) Management report information
Process:	<ul style="list-style-type: none"> (1) Get the desired information for making the report form Data Store D1, Data Store D2, Data Store D3, Data Store D4, Data Store D5, Data Store D7, Data Store D10, Data Store D12, Data Store D13, (2) Send the management report information to the process 4.2
Attachment:	<ul style="list-style-type: none"> (1) Data Store D1 (2) Data Store D2 (3) Data Store D3 (4) Data Store D4 (5) Data Store D5 (6) Data Store D7

	(7) Data Store D10
	(8) Data Store D12
	(9) Data Store D13



Table 3-19 Process Specification for Process 4.2

Process Name:	Get report information
Data In:	(1) Management report information
Data Out:	(1) Management report
Process:	(1) Get the management report information from process 4.1 (2) Print the management report according to the management report information and send the management report to the manager
Attachment:	(1) Manager

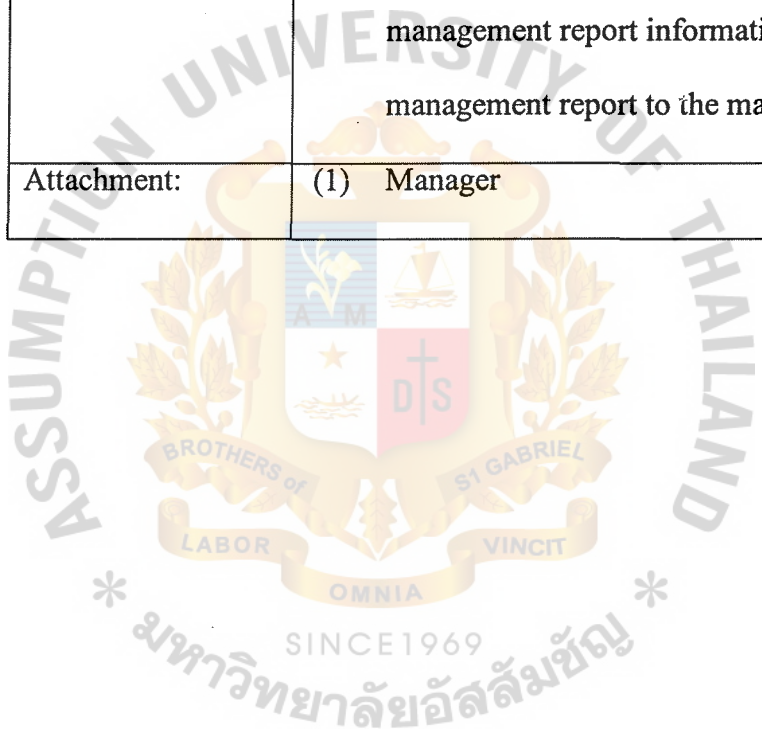


Table 3-20 Process Specification for Process 5.0

Process Name:	Refill inventory
Data In:	<ul style="list-style-type: none"> (1) Stock on hand information, product id (from Data Store D7) (2) Supplier information (from Data Store D4) (3) Product information (from supplier) (4) Supplier invoice information (from supplier)
Data Out:	<ul style="list-style-type: none"> (1) Product id, date received, quantity (information of the product received) (2) New product order information (information of the new product received from supplier) (3) Supplier order information (issue order to the supplier for the product)
Process:	<ul style="list-style-type: none"> (1) Get Stock on hand information and product id and issue the order to the supplier for the product which has low stock on hand (2) After receiving the product, update the product for the quantity as well as update for the new product (3) Add new supplier if he's not exist in the database.
Attachment:	<ul style="list-style-type: none"> (1) Supplier (2) Data Store D4 (3) Data Store D7 (4) Data Store D15

Table 3-21 Process Specification for Process 5.1

Process Name:	Get inventory information
Data In:	(1) Stock on hand information, product id
Data Out:	(1) Product order information
Process:	(1) Get Stock on hand information and product id from the Data Store D15 and send to the process 5.2
Attachment:	(1) Data Store D15

Table 3-22 Process Specification for Process 5.2

Process Name:	Make purchase order
Data In:	(1) Product order information (2) Supplier invoice information (3) Product order information (4) Supplier information
Data Out:	(1) Supplier order information (2) Product id, date received, quantity
Process:	(1) Get the product order information from process 5.1 and find the suitable supplier (2) Issue the order to the supplier (3) After receive the product, send the product information to the process 5.3
Attachment:	(1) Supplier (2) Data Store D4

Table 3-23 Process Specification for Process 5.3

Process Name:	Update inventory
Data In:	(1) Product id, date received, quantity
Data Out:	(1) Product id, date received, quantity (2) New product order information
Process:	(1) Get the product information from process 5.2 (2) Update the data in Data Store D15 according to the receiving information (3) If there's new product, and new product information in the Data Store D7
Attachment:	(1) Data Store D7 (2) Data Store D15

Table 3-24 Process Specification for Process 5.4

Process Name:	Add new supplier
Data In:	(1) New supplier information
Data Out:	(1) New supplier information
Process:	(1) Get new supplier information from the supplier (2) Add new supplier information to the Data Store D4
Attachment:	(1) Supplier (2) Data Store D4

(5) Data Dictionary

Table 3-10 Data Dictionary of Evolution Program Database

Field Name	Meaning
Accepted quotation	Permission for admit to do the job.
Commission	Special money for employee who can sales our job.
Commission info	Information of employee's commission
Commission report	The summary of commission's information
Confirmed quotation	Message to show confirm quotation.
Cust id	Identification number of customer
Customer information	Information of customer
Customer order	Order from customer
Customer quotation	The amount that we send to customer for decision.
Customer record	Customer's record.
Customer report	Report to manager about customer
Employee access level	Level of system that accept which position to enter to system level
Employee id	Identification number of employee
Employee information	Information of Employee.
Employee rec	Record of Employee
Employee report	The summary of employee's information send to manager
Employee salary	Total monthly salary of the employees
Invalid employee id	Message to show that employee's 'ID' didn't have in our

	data base.
Invalid manager id	Message to show that manager's ID didn't have in our data base.
Invalid cust id	Message to show that Customer's ID didn't have in our data base.
Invalid plant id	Message to show that Plant's ID didn't have in our data base.
Invalid supplier id	Message to show that Supplier's ID didn't have in our data base.
Inventory report	Report about inventory to manager
Invoice information	Paper show information about our invoice.
Invoice report	Report about invoice to manager
Manager access level	Level of manger can access to our system
Manager id	Identification number of manager.
Manager information	Information of manager.
Manager rec	Record that keep information of manager.
Order	the order placed to our company by the customer
Order information	Information of order.
Order report	Report about order to manager
Payment	About money from customer or pay salary
Plant description	Description about each plant that contact with us
Plant id	Identification number of Plant.
Plant information	Plant information
Plant invoice	Paper that show the price of the product of plant
Plant quotation	The amount that plant send to us to make a decision

Plant rec	Record of plant
Plant receipt	Bill which is plant give to us
Plant report	The report of plant send to manager
Product	The product that plant give to us and send to customer
Product price	Price of product
Rejected quotation	The amount of price which is rejected
Report request	Report which the manager want
Salary	Money give to employee and manager
Salary information	The information that use to calculate the salary
Stock on hand	The amount of product in the inventory
Stock out	Stock empty
Supplier information	The information of the supplier
Supplier rec	Record of the supplier
Supplier receipt	Bill of the supplier give to us
Supplier id	Identification of the supplier
Supplier report	The summary of supplier's information send to manager
Total price	The overall price that is calculated and send to manager
Updated cust inf	Replace the existing customer's information by new
Updated employee inf	Replace the existing employee's information by new information
Updated manager inf	Replace the existing manager's information by new information
Updated plant inf	Replace the existing plant's information by new information
Updated supplier inf	Replace the existing supplier's information by new

	information
Updated work status	Replace the existing work status by new information
Work cancellation	Cancel all the work
Work confirmation	Starting the work that already prepared
Work information	The information of work



(6) Interface Design

We have 22 lists of interface designs, which are:

B-1 Authentication Form: This form use to protect unauthorized person to use this application.

B-2 Customer Information Form. Users can use this screen to record the customers information. Users can put more record whenever they want. If there are any mistakes, users can change and save the information. User can search any record they want

B-3 Customer Order Form. User can use this part to calculate the total price of the order and keep it in the database. It use to enter the product that customer want and keep it in the system.

B-4 Employee Information Form. Users can use this screen to record the employees information. Users can put more record whenever they want. If there are any mistakes, users can change and save the information. User can search any record they want

B-5 Plant Information Form. Users can use this screen to record the plants information. Users can put more record whenever they want. If there are any mistakes, users can change and save the information. User can search any record they want.

B-6 Add Plant Service Form. Users can use this screen to record the customers information. Users can put more record whenever they want. If there are any mistakes, users can change and save the information. And users can see all of the service and we can know that which service which plant will take responsibility. User can search any record they want.

B-7 Supplier Information Form. Users can use this screen to record the plants information. Users can put more record whenever they want. If there are any mistakes, users can change and save the information. User can search any record they want.

B-8 Order Supplier Form. User can enter the information about the product that they want to purchase and also calculate the price of product and print it out. After user enter the information they can add it to database by click Add Product.

B-9 Receive Product Form. User can enter the purchase order number and they can see that when the product order to the supplier and they will record the product that they received.

B-10 Cancel Po Code Form. User can cancel the Purchase Order which is not used by using this screen.

B-11 Item under low limit warning Form. User can use this screen to check which product is under limit, it will warn the company that what time the company have to purchase the items.

B-12 Check PO from Date Form. User can use this screen to check the Purchase Order from the specific date of time in order to know how many purchase order during the specific date.

B-13 Change Password Form. User can use this screen to change username and password whenever they want and whatever they like in order to protect the system from the unauthorized person.

B-14 New Service Order Form. This screen will help user to match the customer with the service that the customer want and keep it in the system

in order to quote the price of the service. It can also tell that which service is served by which employee.

B-15 Plant Quotation Form. User can use this form to calculate the price of the service and also the markup price commission and time of the service and keep it in the database wait for the customer to confirm.

B-16 Customer Confirmation Form. User can use this form to select the plant that customer choose and confirm. It will keep the record of the plant that give service to particular customer.

B-17 Customer Report Form. This form will be the form that divide the report for the user to choose which customer record they wanted.

B-18 Employee Report Form. This form will be the form that divide the report for the user to choose which employee record they wanted.

B-19 Plant Report Form. This form will keep the report about the services that offered by plants.

B-20 Supplier Report Form. This form will be the form that divide the report for the user to choose which supplier record they wanted.

B-21 Project or Service Report Form. This form will be the form that divide the report for the user to choose which service record they wanted.

B-22 Product Report Form. This form will be the form that divide the report for the user to choose which product record they wanted.

All of interface designs are in the Appendix B

(7) Report Design

We Design many report for manager to see and bring to decision for some plan of the business transaction for example like sales data or the best or worst sales. The information of the employee , customer , supplier or plants. We provide 24 report to manager to see and look at that report.

Figure C-1 The good customer for service part by month Report.: This report will show the information about the service that customer required. It will show form the highest amount.

Figure C-2 Premium customer for service part by year Report. This report will show the record of the new customer who purchase the products in year.

Figure C-3 The good customers for product part by month Report. This report will show the information about the product that customer purchase in month. It will show form the highest amount.

Figure C-4 The good customers for product part by year Report. This report will show the information about the product that customer purchase in year. It will show form the highest amount.

Figure C-5 Employee commission rank by month Report. This report will show the record of the employee who get the commission. It will rank from the highest commission to lowest commission in month. User can compare the commission of each customer.

Figure C-6 Employee commission rank by year Report. This report will show the record of the employee who get the commission. It will rank from the highest commission to lowest commission in year. User can compare the commission of each customer.

Figure C-7 Employee with the complete work report. This report will show the record about which employee have responsibility to which job and when the job start and finish

Figure C-8 Plants with their offered services. This report will show all of the plants and it will tell that the plant will vide the summary

Figure C-9 The supplier whom we purchase the most in order by month Report. : This report will show the transaction between supplier and com To show the statistics.

Figure C-10 The supplier whom we purchase the most in order by year Report.

This report will show the transaction between supplier and company and it will show that which supplier the company do the most transaction with month by month.

Figure C-11 Suppliers with their product lines Report. This report will show the record of each supplier who sell their product to the company and it will tell the price of each product of each supplier.

Figure C-12 The project which plant's quoted Report. This report will show all of the jobs that plant quote the price of service to company. It will list the services that already quoted.

Figure C-13 The project which plant's not quoted Report. This report will show the jobs that plant do not quote the price of service yet.

Figure C-14 The project which customer's confirmed Report. This report will show the services that customers confirm to do with the company after they consider the quoted price.

Figure C-15 The project which customer's cancelled Report. This report will show the list of services that customers do not want to do with the company after they consider the quoted price.

Figure C-16 Most Profitable Project Report. This report will show the project that can make profit to the company and it will list from the highest profit to lowest profit.

Figure C-17 The most demand service in each month Report. This report will show the demand of the customer in each month listed from the highest to lowest.

Figure C-18 The most demand service in each year Report. This report will show the demand of the customer in each year listed from the highest to lowest.

Figure C-19 Profit for each product by product type Report. This report will list the product line and also the product in each product line in order to show the cost, selling price and the profit that company get from each product or service.

Figure C-20 Product sale by each month Report. This report will show that in each month what kind of product or service company sell to customer at what price and how many quantities.

Figure C-21 Product sale by each year Report. This report will show that in each year what kind of product or service company sell to customer at what price and how many quantities.

Figure C-22 Sale of each product type by month Report. This report will show the company about the type of product that company sell to their customers.

Figure C-23 Best selling product in order by month Report. This report will show that which product company can sell best in each month. It also tell the user about the quantity and net price.

Figure C-24 Best selling product in order by year Report. This report will show that which product company can sell best in each year. It also tell the user about the quantity and net price.

The Report Design is exhibited in Appendix C.



IV. SYSTEM IMPLEMENTATION

4.1 Overview of the System Implementation

We decide to use Post-Implementation to change from the old system to the new system. To ensure that the new sys system meets specific requirements, complies with user objectives, and achieves anticipated benefits than the old system and help to improve IT development practices by providing feedbacks. It would be advantage because a manual one or old system will be replace by a computerized system .

4.2 Test Plan

Programmers must create both valid and invalid test data. These Data run to see base on routines work and also catch error. And check all of module. Created test data test possible minimum and maximum values as well as all possible variations in format and code and check output that have any error or not.

After we test by using the test data . We will bring the real data that company used and tried to put in the program. We will see that data can work completely with our program. And we tried to catch the error from this process.

V. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

After finish all of the process. Since the company background and study with the existing system after that we concern to the proposal system. We try to design about Data Flow Diagram of the existing system and find the problem of the project and we scope our program what the purpose of our system and spec with hardware requirement and software requirement. We will have the New data flow diagram for the proposal system and manager with new database that direct to the data flow diagram. In this company, it is not a big company and they have only a few transactions but they have 2 modules in the company for example, service part and selling part. It is very difficult to manage this two modules in one program. Our system will separate two part to support each of them. In the first times it has a lot of problem in many kind. For example like the update information of customer and plant. So we try to find the way to change from the manual to the computerize and try to correct problems that occur in this system. We use Visual Basic to design and implement this system and this system can help the company reduce the time to use manual record and The user of this system can record more information and more detail than the past. When we do this system it can help us to practice a lot of things such as hew to draw data flow diagram or how to normalization the database in the database design.

5.2 Recommendations

Our system still didn't cover all of the transaction in other business because we study the structure only this company. Actually system should use in all of the company. And other things of this system is the Visual Basic complier because in our system they have a lot of bug and more problems that very difficult to solve and finding the cause of the problem. And the times to implement the whole system is very limited. We have a lot of problem in the coding system because it's not easy to the plan that we plan in the first times. We think that after we develop this system, it will have any advantage for the one who is interested.





Table A-1 Customers Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	Customer id	Char(11)	Y	Y		X999-9999	PK	
2	Company Name	Char(30)	Y					
3	Contactf	Char(20)						
4	Contactl	Char(30)						
5	MobileContact	Char(11)						
6	Bill Address	Varchar(80)						
7	Phone Number	Varchar(12)				(99)-999-9999		
8	Fax number	Varchar(12)			Y	(99)-999-9999		
9	Email	Varchar(20)			Y			

Table A-2 Employees Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	Employee id	Char(11)	Y	Y		X999-9999	PK	
2	EmployeeName	Char(20)	Y					
3	EmployeeLname	Char(30)						
4	Address	Varchar(80)						
5	Phone number	Char(11)				(99)-999-9999		

Table A-3 Service Order Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Rderenced Table
1	Service Order ID	Char(11)	Y	Y		X999-9999	PK	
2	Project Name	Varchar(12)						
3	Order Date	Date/Time				DD-MM-YY		
4	Total cost	Int(11)						
5	Total price	Int(11)						
6	Quodate	Date/Time						
7	Commission	Int(11)						
8	Commission date							
9	Canceldate	Date/Time						
10	IsPlantQua	Int(1)						
11	isCustCon	Int(1)						
12	Duration	Int(11)						
13	Duedate	Date/Time				DD-MM-YY		
14	CustomerID	Char(11)	Y	Y		X999-9999		Customer
15	EmployeeID	Char(11)	Y	Y		X999-9999		Employee

Table A-4 Service Order Detail Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	ServiceOrderID	Char(11)	Y	Y		X999-9999	FK	ServiceOrder
2	ServiceID	Char(11)	Y	Y		X999-9999	FK	Service
3	Description	Varchar(80)						
4	Price	Int(11)						
5	Dualation	Int(11)						

Table A-5 Service Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	ServiceID	Char(11)	Y	Y		X999-9999	PK	
2	ServiceName	Varchar(20)						
3	PlantID	Char(11)	Y	Y		X999-9999	FK	Plant

The last database that we decide to normalize is service table because it has a lot of detail we have two more table to collect the database of its. Service order table and service order detail table.

Table A-6 Customer Order detail Table

No.	Field Name	Field Type	Index	Unique	Null	Validity Check	Key Type	FK Referenced Table
1	Customer Order detail id	Char(11)	Y	Y		X999-9999	PK	
2	Item Model	Char(11)	Y	Y		X999-9999	FK	Item Master
3	Item type code	Char(11)	Y	Y		X999-9999	FK	Item typeCode
4	Unit Price	Int(11)						
5	Item Quality	Int(10)						
6	Net	Int(11)						

Table A-7 Customer Orders Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	Customer Order id	Char(11)	Y	Y		X999-9999	PK	
2	Order Date	Date/Time				DD-MM-YY		
3	Net Total	Int(11)						
4	Order Flag	Int(1)						
5	Customer ID	Char(11)	Y	Y		X999-9999	Fk	Customer

In customer order table we normalization to two table for the customer order detail because one customer order and more customer order detail and it's can't collect in one table. We keep price and quality of each product in one customer order in this table. One customer order may have a lot of product and it can't keep in only one table.

Table A-8 Plants Table

No.	Field Name	Field Type	dex	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	PlantID	Char(11)	Y	Y		X999-9999	PK	
2	PlantName	Char(11)						
3	Contactf	Char(20)						
4	Contactl	Char(30)						
3	Address	Char(80)						
4	Phone	Int(11)						

Table A-9 Item Master Table

No	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	ItemModel	Varchar(12)		Y		X999-9999	PK	
2	ItemTypeCode	Varchar(12)		Y		X999-9999	FK	ItemTypeCode
3	BrandCode	Varchar(12)				X999-9999	FK	BrandName
4	ShortName	Varchar(12)						
5	FullName	Varchar(12)						
6	Cost	Int(11)						
7	Sellprice	Int(11)						
8	SupplierCode	Varchar(12)				X999-9999	FK	Supplier
9	Detail							
10	Numberinstock	Int(11)						
11	NumberInOrder	Int(11)						
12	LowLimitToWarning	Int(11)						
13	BrandPictureFileName	Char(20)						
14	ItemPictureFileName	Char(20)						
15	ItemStatus	Int(1)						

Table A-10 Item TypeTable

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	ItemTypeCode	Varchar(12)	Y	Y		X999-9999	PK	
2	ItemTypeName	Char(11)						

Table A-11 Brand Name Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	BrandCode	Varchar(12)	Y	Y		X999-9999	PK	
2	BrandName	Char(11)						

Next table is Item Master table we decide to normalize in three table is Item Master table and ItemTypecode table , Brand name table, Item master table it keep only detail of product and inventory stock. Item type is table to collect information that product is what type. Because our company have more type of product such as silicone , water protect , Wall Protect, the last things in product field is brand

name because the product have the different quantity of product and percentage of chemical in the product for example like 100% or 90 % and Etc.

Table A-12 Supplier Order Detail Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	ItemModel	Varchar(12)	Y			X999-9999	PK	
2	ItemTypeCode	Varchar(12)	Y	Y		X999-9999	FK	ItemType
3	POCode	Varchar(12)						
4	Cost	Int(11)						
5	Quantity	Int(11)						
6	Discount	Int(11)						
7	Vat	Int(11)						
8	Net	Int(11)						

Table A-13 TransactionLog Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	TLCODE	Varchar(12)	Y			X999-9999	PK	
2	ItemModel	Varchar(12)	Y	Y		X999-9999	F	ItemType
3	ItemNum	Varchar(12)						
4	SupplierCode	Int(11)						
5	TransactionCode	Int(11)						
6	TransactionDate	Int(11)						
7	DocumentRef	Int(11)						
8	TransactionDetail							

Table A-14 Supplier Order Table

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	SupplierCode	Char(11)	Y	Y		X999-9999	PK	
2	POCode	Varchar(12)				XX-999999		
3	OrderDate	Date/Time				DD-MM-YY		
4	ReceiveDate	Date/Time				DD-MM-YY		
5	DueDate	Date/Time				DD-MM-YY		
6	NetTotal	Int(11)						
7	OrderFlag	Int(1)						
8	IsReceived	Int(1)						
9	IsPaid	Int(1)						

Database about supplier order in E-R diagram. One supplier order can order a lot of product in one time it's meaning that one supplier order can more more supplier order detail. This table the reason to normalize is same as customer order table.

Table A-15 Supplier Tabel

No.	Field Name	Field Type	Index	Unique	Nullable	Validity Check	Key Type	FK Referenced Table
1	SupplierCode	Char(11)	Y	Y		X999-9999	PK	
2	NameInThai	Varchar(12)						
3	ItemDescription	Varchar(80)						
4	Address	Varchar(80)						
5	ContactName1	Char(20)						
6	Contacl	Char(30)						
7	Telephone	Int(11)				(99)-999-9999		
8	Email	Varchar(12)						
9	Homepage	Varchar(12)						
10	Fax	Int(11)				(99)-999-9999		

At first times before normalization we have only 8 Table such as customer table because it collect the information of the customer don't have to normalization, The employee table, Plant table and supplier table is also the external entity and it doesn't want to normalize because it only collect the main data and they didn't have FK in their table.







APPENDIX B
INTERFACE DESIGN

V.Screen Industrail Supply company

User Name

PassWord

 Main Menu

 Enter To our System


 Exit

Figure B-1 Login Menu Form

WELCOME TO REVOLUTION [Add New Plant]

Customer Employee Plant Supplier Check Admin Service Report Exit

CUSTOMER INFORMATION

CustomerID: C-000001 Add
 Company Name: Dummy co.ltd Update
 Contact First name: Supachart
 Contact Last name: Konstiwong Delete Exit
 Address: 259-965 Charoennakorn 109 Klong san Bangk
 PhoneNumber: 02-4376299
 FaxNumber: 02-4383059
 EmailAddress: joke_it_great@yahoo.com
 Notes: abac

CustomerID	Company Name	contact	contact	Address	PhoneNum
C-000001	Dummy co.ltd	Supachart	Konstiwong	259-965 Charoennakorn 109	02-4376299
C-000002	Chailon company	Supachart	Eialadd	25 Development and Alumni	02-458744
C-000003	Ampbor Service co.ltd	Andree	Corn	608/25 Sahapadit Road bang	01-264852
C-000004	Deepanum supplier	Shagay	Todom	25/4 Seriwong Tower silom	01-985412
C-000005	Safin supplier company	Ongard	Kunsongsombut	37 Ruamprasong bldg Petch	01-323448
C-000006	Maharena co.ltd	Supok	Rombunaree	50 Soi Ngamduplee, Rama 4	01-854785
C-000007	ARC industrial co.ltd	J.J.	Rolling	Bustek Computer 604/3 Por	01-524581
C-000008	inrel company	Peter	Cropradaler	85 Satholmark Rd. Warinch	01-659256
C-000009	Acer co.ltd	Mathuchila	Udamshi	20/3 Suwitkavong Road sirw	02-256256
C-000010	inmr	Inhachut	Shinawinwun	64/77 Kwan mard Puvitana	02-586545

Search

CustomerID: [] Record no.: 1/15

<< < > >>

Figure B-2 Customer Information Form

WELCOME TO REVOLUTION - [Sale]

Customer Employee Plans Supplier Check Admin Service Report Exit

Customer Order

SO Number: 50-0000000051 Date: 11/25/2006

Customer ID: Company Name:

First Name: Last Name:

List Of Product	Item	Product	Type	Grade	Price	Amount Total	
							Add Product

Record Order Calculate Price Delete All Item Exit

--	--	--	--	--	--	--	--

Net Total: 0.00

Figure B-3 Customer Order Form

WELCOME TO REVOLUTION - [Add New Employee]

Customer Employee Plant Supplier Check Admin Service Report Exit

EMPLOYEE INFORMATION

EmployeeID: E-0000001
 First name: Nun
 Last name: Kulote
 Address: Rama IV
 Phone: 02-5825896
 Hireddate: 4/5/2544
 Salary: 25000
 Birthdate: 5/2/2520

Add
 Update
 Delete
 End

EmployeeID	Employee name	Employee name	Address	Phone	Hireddate	Birthdate
E-0000001	Nun	Kulote	Rama IV	02-5825896	4/5/2544	5/2/2520
E-0000002	Claud	Jensen	Klongton	02-4854115	3/5/2545	7/5/2521
E-0000003	Jimie	F. blank	Rakchada	02-5848573	2/1/2546	5/11/2520
E-0000004	Johny	Dave	Pachauuid	02-8547851	2/2/2546	9/2/2522
E-0000005	David	Beckham	Manchester	01-8547854	18/3/2547	5/8/2518
E-0000006	Roy	Keane	587/589 Soi Ram 24 Rd. Ra	01-8547854	2/12/2491	12/6/2521
E-0000007	Kamol	Woo	34-23 Soi BonniKai Bangkok	01-8547854	8/2/2544	20/12/2521

Search: [Employee ID] []

Record no.: 1/9

<< < > >>

Figure B-4 Employee Information Form

WELCOME TO REVOLUTION - [Add Plant]

Customer Employee Plant Supplier Check Admin Service Report Exit

Plant information

PlantID: P-0000001
Plantname: Morgan
Contact First name: Chonima
Contact Last name: Shiwiwongpan
Address: 30/2 Seriwong Tower siom Road Bangkok 10
Phone: 02-4015844

Add
Update
Delete
Exit

PlantID	Plantname	contact	contact	
P-0000001	Morgan	Chonima	Shiwiwongpan	30
P-0000002	Brew	Palama	Yathin	40
P-0000003	B&N	Peter	Cropdarender	12
P-0000004	Tanasi Ind.	Saparat	Seriwongpawa	60

Search

Plant ID

Record no.: 1/4

<< < > >>

Figure B-5 Plant Information Form

WELCOME TO REVOLUTION - [Add Service]

Customer Employee Plant Supplier Check Admin Service Report Exit

Service information

ServiceID: S-0001
Servicename: TapLon
PlantID: P-0000001

Add
Update
Delete
Exit

ServiceID	Servicename	PlantID
S-0001	TapLon	P-0000001
S-0002	Cover Pan	P-0000002
S-0003	Repair wall	P-0000002
S-0004	Paint wall	P-0000002
S-0005	Fix a hole	P-0000001
S-0006	Wax Floor	P-0000004
S-0007	Wax Sofa	P-0000004

Search

Service Name

Record no : 1/11

<< < > >>

Figure B-6 Add Plant Service Information Form

WELCOME TO REVOLUTION-[Add New Supplier]

Customer Employee Plant Supplier Check Admin Service Report Exit

Supplier information

SupplierCode: SUP-001

Company name: App Soft Track Co.,Ltd.

Contact First name: Thalima

Contact Last name: SirWon

Address: 11-15 Fortune tower building 12 Floor

Email: Koowa77@newmail.net

Telephone: 02-642-1101

Fax: 02-642-1102

SupplierCode	NameInEnglish	ContactName1	Contact	Address	Email
SUP-001	App Soft Track Co.,Ltd.	Thalima	SirWon	11-15 Fortune tower building	Koowa77@newmail.net
SUP-002	Digland (Thailand) Co.,Ltd	Sud'od	Chapattana	244 Soi Patanakam Bangko	Sudyot@hotmail.com
SUP-003	ATC (Thailand) Co.,Ltd	Sakchai	Tongchai	608/25 Sathupadi R. Bang	AkePot@yahoo.com
SUP-004	Siralee Co.,Ltd	Omusa	Seewonglana	244 Soi Patnagan Thorburi	Sales@seranee.co.th
SUP-005	Hi end Power Co.,Ltd	Sirhanut	Jolenapan	59 Schemit Building Petchab	
SUP-006	Zebra Computer Co.,Ltd	Thongsai	Kuntimashii	24 Floor Empire Tower Sath	

Search:

Record no.: 1/6

<< < > >>

Figure B-7 Supplier Information Form

WELCOME TO REVOLUTION-[Form1]

Customer Employee Plant Supplier Check Admin Service Report Exit

Purchase Order Number

PO Number:

OK

SUPPLIER

Name Contact

Address Telephone

Add

PO Information

Order Date:

Receive Date:

Paid Date:

Total:

BACK

UNIVERSITY OF

LABOR OMNIA

SINCE 1969

มหาวิทยาลัยอัสสัมชัญ

Figure B-9 Receive Product Form

WELCOME TO REVOLUTION-[Form1]

Customer Employee Mark Supplier Check Admin Service Report Exit

PO Code

PO number to

Cancel Purchase Order

BACK

Figure B-10 Cancel PO Form

WELCOME TO REVOLUTION.[Back]

Customer Employee Plant Supplier Check Admin Service Report Exit

DataCombo1 Check It

--	--	--	--	--	--	--

Label 1 Exit

Figure B-11 Item Low Limit Warning Form

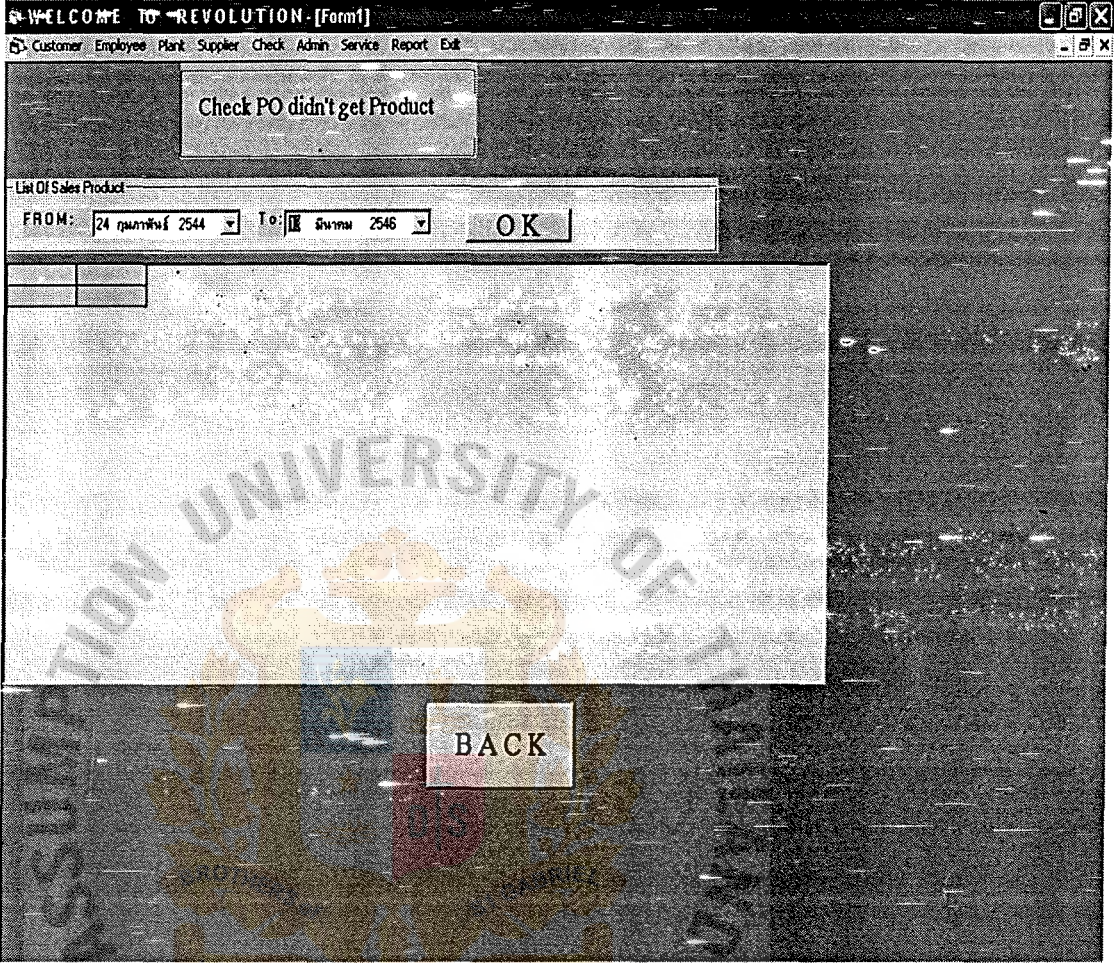


Figure B-12 Check PO from Date Form

Change Password

Change Password

User Name:

Old Password:

New Password (6-15):

Retype Password:

Figure B-13 Change Password Form

WELCOME TO REVOLUTION - [Customer service]

Customer Employee Plant Supplier Check Admin Service Report Exit

New Service Order

Service Order no. SER-0000000028 13 ธันวาคม 2546

Customer Information

Customer ID

Company name

First name

Last name

Employee

Employee ID

First name

Last name

Project name

Service ID By

Description

Add Delete

Service ID	Service name	By Plant	Description

Save Exit

Figure B-14 New Service Order Form

WELCOME TO REVOLUTION [Service Plant Quote]

Customer Employee Plant Supplier Check Admin Service Report Exit

Plant Quotation

13 มิถุนายน 2546

ServiceorderID	Projectname
▶ SER-0000000008	Super Wall Protect
SER-0000000013	Charlton
SER-0000000014	Dummy pool
SER-0000000016	cover pan
SER-0000000019	hole10
SER-0000000021	Dummy5
SER-0000000023	Max Palm
SER-0000000024	Jame June
SER-0000000025	Super Jim
SER-0000000026	Komol
SER-0000000027	

Search Project

Project name

ServiceorderID	ServiceID	ServiceName	Description	Price	Duration
▶ SER-0000000009	S-0005	Fix a hole	10 hole	0	0
SER-0000000009	S-0006	Wax Floor	100 floor	0	0

Total cost

Commission 10 %

Mark Up 25 %

Duration

Days

TotalPrice

Ok

Calculate

Exit

Figure B-15 Plant Quotation Form

WELCOME TO REVOLUTION- [Service Customer Confirmation]

Customer Employee Plant Supplier Check Admin Service Report Exit

Customer Quotation

13 ธันวาคม 2546

ServiceorderID	Projectname	Totalprice

Search Project

Project name

ServiceorderID	Projectname	Totalprice

Confirm Cancel Exit

Figure B-16 Customer Confirmation Form

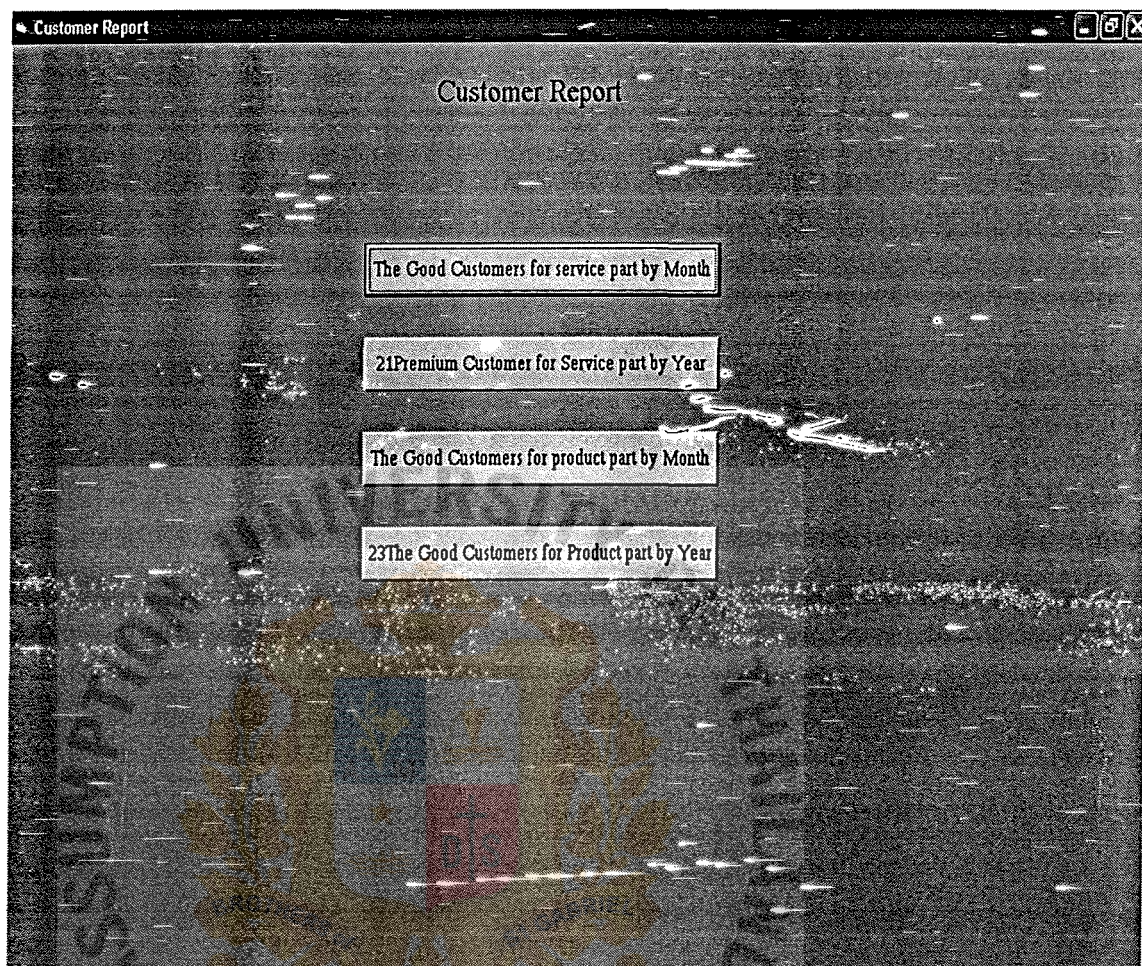


Figure B-17 Customer Report Form

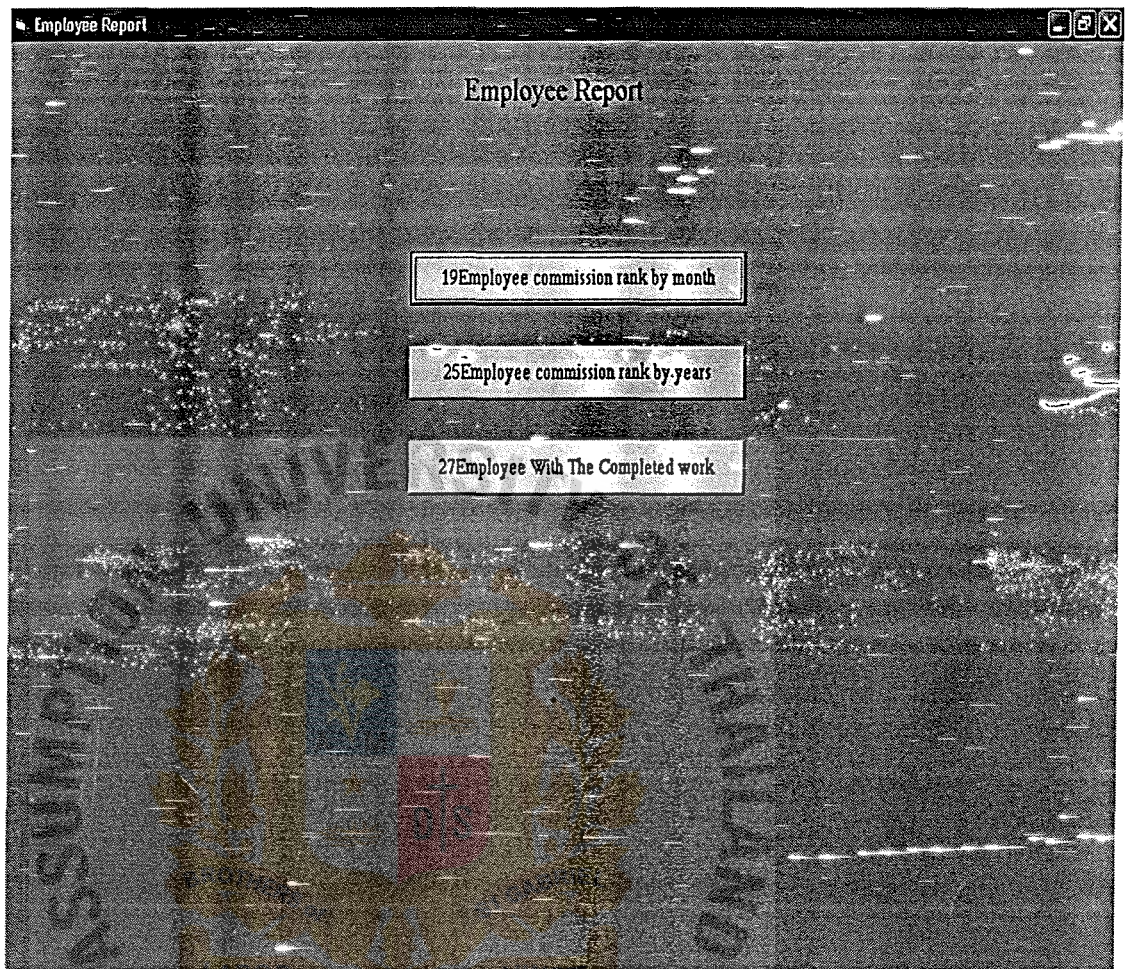


Figure B-18 Employee Report Form

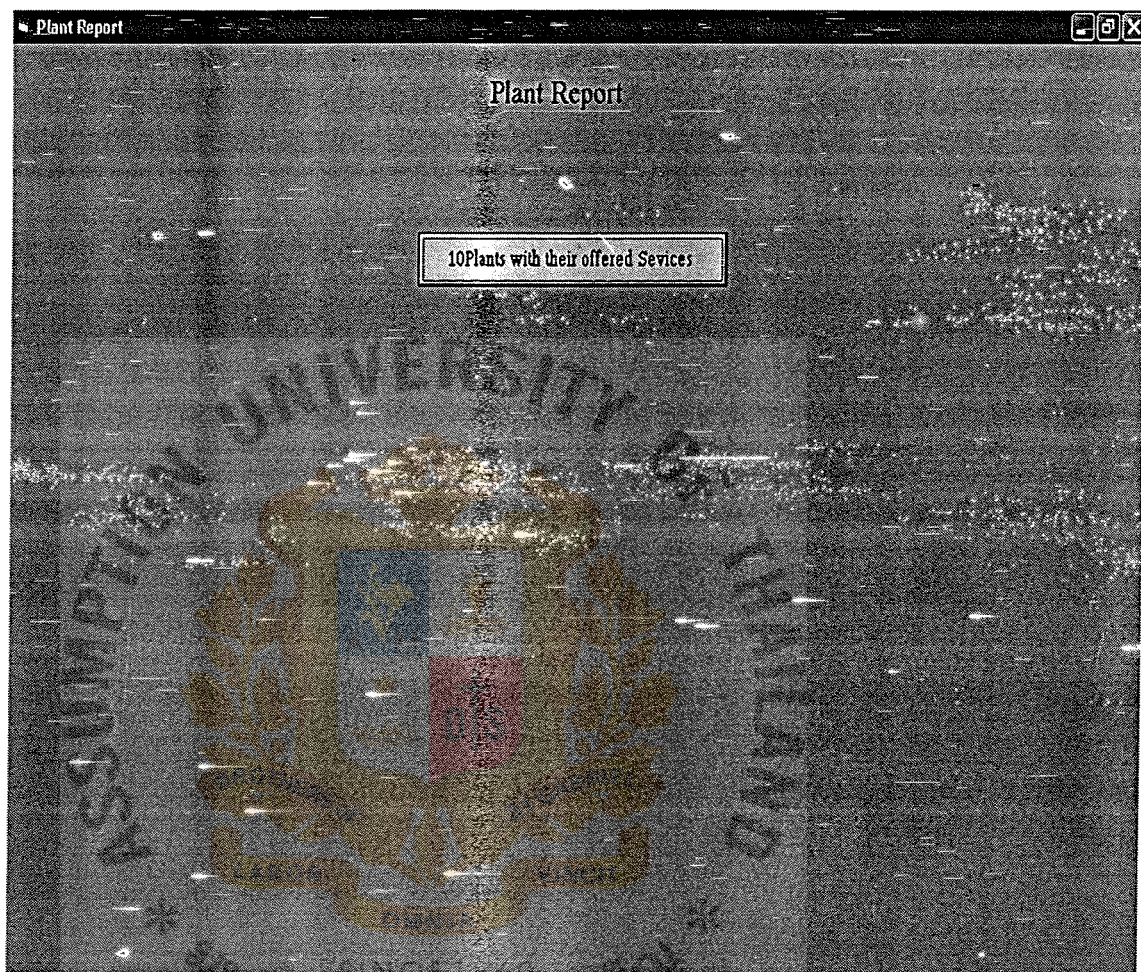


Figure B-19 Plant Report Form



Figure B-20 Supplier Report Form

Service Report

Project Report

27The project which plant's quoted

3The project which plant's not quoted

4The project which Customer's confirmed

5The project which Customer's canceled

11The most profitable project

20The most demand service in each month

Figure B-21 Project Report Form

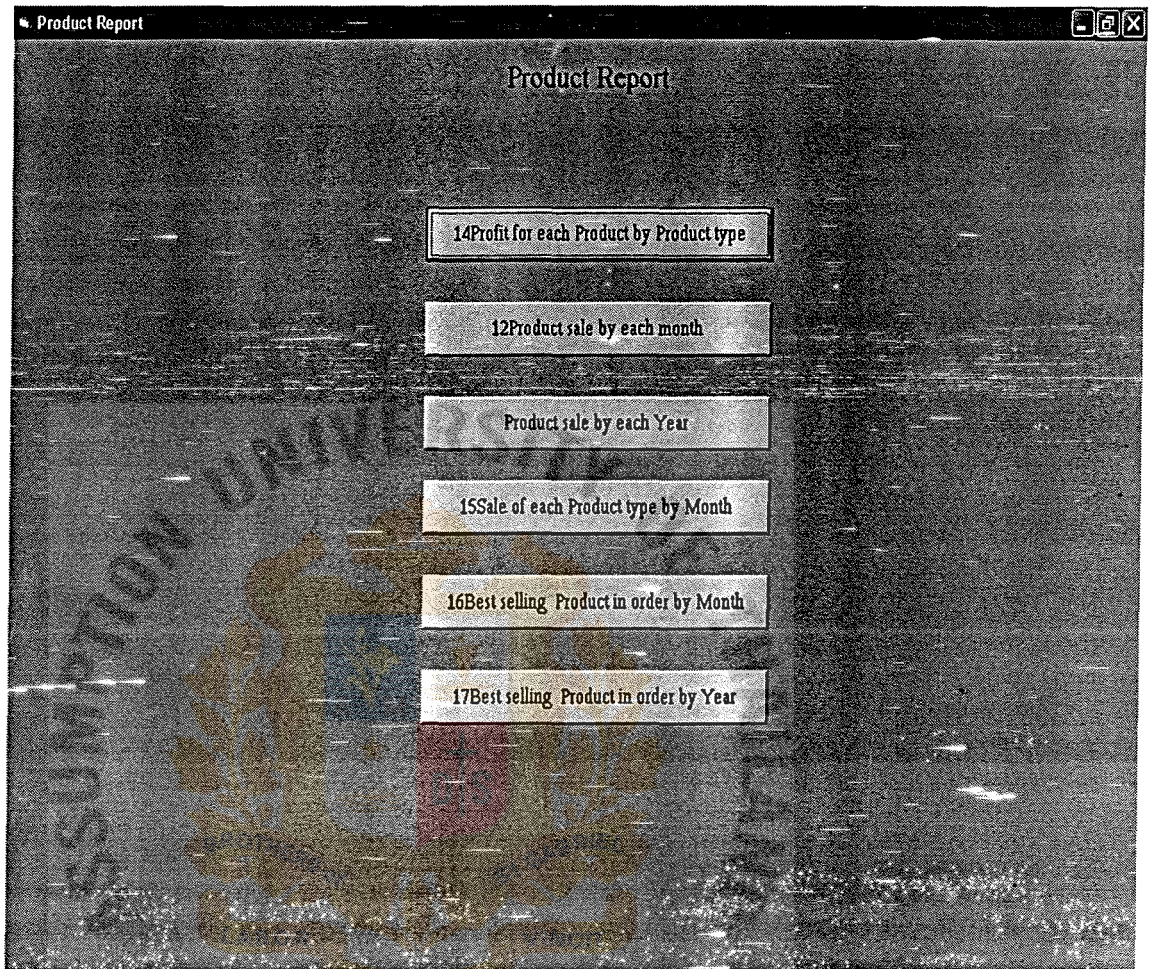


Figure B-22 Product Report Form



APPENDIX C
REPORT DESIGN

V Screen Co.ltd
The Good Customers for service part
By Month

Page 1 of 1

13/3/2546

<u>Customer ID</u>	<u>From Company/Customer</u>	<u>Total Amount</u>
<u>For the Month</u>	1/2545	
C-0000003	Ampbor Serveice co.ltd	2,500.00
C-0000001	Dummy co.ltd	1,250.00
C-0000015	RF Supplie co.ltd	1,250.00
<u>For the Month</u>	5/2545	
C-0000004	Deepanum supplier	106,250.00
C-0000015	RF Supplie co.ltd	87,500.00
C-0000008	Inel company	79,400.00
C-0000002	Charlton company	68,750.00
C-0000003	Ampbor Serveice co.ltd	49,432.00
C-0000001	Dummy co.ltd	43,750.00

Figure C-1 The Good customers for service part Report
 By Month

V Screen Co.ltd
The Good Customers for service part
by Year

Page 1 of 1

13/3/2546

<u>Customer ID</u>	<u>From Company/Customer</u>	<u>Total price</u>
<u>For the year</u> 2545		
C-0000004	Deepanum supplier	106,250.00
C-0000015	RF Supplie co.ltd	88,750.00
C-0000008	Inel company	79,400.00
C-0000002	Charlton company	68,750.00
C-0000003	Ampbor Serveice co.ltd	51,932.00
C-0000001	Dummy co.ltd	45,000.00
C-0000013	Venushouse	12,500.00

Figure C-2 Good Customer for Service Part Report

By Year

V Screen Co.ltd
The Good Customers for Product part
by Year

Page 1 of 1

13/3/2546

<u>Customer ID</u>	<u>From Company/Customer</u>	<u>Total price</u>
<u>For the year</u> 2545		
C-0000007	ARC industrial co.ltd	1,188,200.00
C-0000004	Deepanum supplier	739,500.00
C-0000002	Charlton company	652,100.00
C-0000003	Ampbor Serveice co.ltd	614,200.00
C-0000012	Technology Square	588,200.00
C-0000015	RF Supplie co.ltd	501,000.00
C-0000013	Venushouse	489,100.00
C-0000009	Acer co.ltd	378,000.00
C-0000011	Prime Consultant	347,000.00
C-0000014	Innovation Crop.	330,000.00
C-0000006	Mafiarena co.ltd	275,600.00
C-0000010	OMC	202,500.00

Figure C-3 The Good Customers for Product Part Report

By year

V Screen Co.ltd
The Good Customers for product part
By Month

Page 1 of 2

13/3/2546

<u>Customer ID</u>	<u>From Company/Customer</u>	<u>Total price</u>
<u>For the Month</u>	1/2545	
C-0000007	ARC industrial co.ltd	418,100.00
C-0000003	Ampbor Serveice co.ltd	210,500.00
C-0000008	Inel company	138,000.00
C-0000015	RF Supplie co.ltd	127,000.00
C-0000002	Charlton company	122,500.00
C-0000009	Acer co.ltd	120,000.00
C-0000013	Venushouse	116,100.00
C-0000014	Innovation Crop.	99,500.00
<u>For the Month</u>	2/2545	
C-0000004	Deepanum supplier	368,500.00
C-0000007	ARC industrial co.ltd	250,000.00
C-0000002	Charlton company	245,500.00

Figure C-4 The Good Customers for Product Part Report
By month

V Screen Co.ltd
Employee commission rank by month

Page 1 of 1

13/3/2546

Employee ID	Firstname	Lastname	Total commission
For the Month	1/2545		
E-0000009	Y.	Chai	250.00
E-0000002	Jensen	Claud	125.00
E-0000007	Woo	Kamol	125.00
For the Month	5/2545		
E-0000005	Beckham	Divid	11,250.00
E-0000001	Kulote	Nun	8,258.00
E-0000003	F. blaink	Jimie	8,125.00
E-0000006	Keane	Roy	6,250.00
E-0000008	Beaties	Jame	6,250.00
E-0000007	Woo	Kamol	4,625.00

Figure C-5 Employee Commission Rank Report

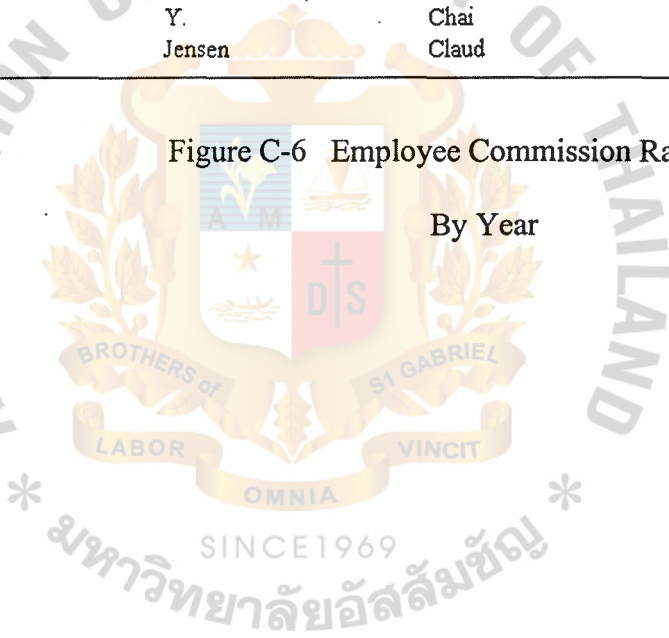
By month

V Screen Co.ltd
Employee commission rank by Year

Page 1 of 1

13/3/2546			
Employee ID	Firstname	Lastname	Total commission
2545			
E-0000005	Beckham	Divid	11,250.00
E-0000001	Kulote	Nun	8,258.00
E-0000003	F. blaink	Jimie	8,125.00
E-0000006	Keane	Roy	6,250.00
E-0000008	Beaties	Jame	6,250.00
E-0000007	Woo	Kamol	4,750.00
E-0000009	Y.	Chai	250.00
E-0000002	Jensen	Claud	125.00

Figure C-6 Employee Commission Rank Report
By Year



V Screen Co.ltd

Employee With The Completed work

Page 1 of 1

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Employee name		Project name	Confirmdate
Chai	Y.	Tohome	5-พ.ค.-2002
Claud	Jensen	Wall	5-พ.ค.-2002
Divid	Beckham	Wall Secure	1-พ.ค.-2002
		Tapping floor	1-พ.ค.-2002
Jame	Beabies	Hole Full	1-พ.ค.-2002
		cfgt	1-พ.ค.-2002
Jimie	F. blaink	Wall Fix	1-พ.ค.-2002
		dun	1-พ.ค.-2002
		Vensu	1-พ.ค.-2002

Figure C-7 Employee With The Complete Work Report

V Screen Co.ltd
Service by each Plant

Page 1 of 3

13/3/2546

Plant : B&N
Contact name Peter Cropdarender
12/3 Charoennakorn 109 Klong san Bangkok 10600
02-2426262

Service ID	Service Name
S-0008	Paint Furniture
S-0010	Cover Roof
S-0011	Cover Stanley Spoon

Plant Brew

Figure C-8 Plants With Their Offered Service Report

V Screen Co.ltd
The Supplier whom we purchase the
most in order by month

Page 1 of 2

13/3/2546

Supplier	Item description	Telephone	Total Amount
For the Month 1/2545			
Hi end Power Co.,Ltd	Wall Protection for all purpose	02-861-1700	334,400.00
Digiland (Thailand) Co.,Ltd	Water Protection for all purpose	02-722-0241-8	308,275.00
App Soft Track Co.,Ltd.	Special Silicon for Material	02-642-1101	305,663.00
Siralee Co.,Ltd	Floor Protection for all purpose	02-670-0680	282,150.00
ATC (Thailand) Co.,Ltd	Glass Protection for all purpose	02-259-1192	135,850.00
For the Month 2/2545			
Hi end Power Co.,Ltd	Wall Protection for all purpose	02-861-1700	135,850.00

Figure C-9 The Supplier Whom We Purchase The Most Report

By Month

V Screen Co.ltd
The Supplier whom we purchase the
most in order by Year

Page 1 of 1

13/3/254๕

Supplier	Item description	Telephone	Total Amount
For the Year 2545 Siralee Co.,Ltd	Floor Protection for all purpose	02-670-0680	1,456,730.00
Digiland (Thailand) Co.,Ltd	Water Protection for all purpose	02-722-0241-8	1,014,695.00
App Soft Track Co.,Ltd.	Special Silicon for Meterial	02-642-1101	981,778.00
Hi end Power Co.,Ltd	Wall Protection for all purpose	02-861-1700	747,175.00
ATC (Thailand) Co.,Ltd	Glass Protection for all purpose	02-259-1192	593,560.00
Zebra Computer Co.,Ltd	RestRoom Protection for all purpose	02-651-6000	73,150.00
For the Year 2546 App Soft Track Co.,Ltd.	Special Silicon for Meterial	02-642-1101	64,790.00
For the Year 2547 App Soft Track Co.,Ltd.	Special Silicon for Meterial	02-642-1101	33,962.50

*
Figure C-10 The Supplier Whom We Purchase The Most Report
By Year
*
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SINCE 1969

V Screen Co.ltd
Product list by each Supplier

Page 1 of 3

13/3/2546

SUP-001

App Soft Track Co., Ltd.
Thitima SriWon
11:15 Fortune tower building 12 Floor
02-642-1101 Koowa77@newmail.net
Special Silicon for Meterial

Product	Price
Seliclone 100 %	12,000.00
Seliclone 80 %	5,000.00
Seliclone 60 %	6,000.00
Seliclone 55 %	6,200.00
Seliclone 50 %	6,500.00
Glass Protection 65 Percent	3,000.00
Glass Protection 55 Percent	3,250.00

Figure C-11 Supplier With Their Product Lines Report

V Screen Co.ltd
The project which plant's quoted
13/3/2546

Page 1 of 1

<u>ServiceorderID</u>	<u>Project Name</u>	<u>Total cost</u>	<u>From Customer</u>	<u>Quoted Date</u>
<u>For the Month</u>	<u>5/2545</u>			
SER-0000000022	b	66,722	Deepanum supplier	1-พ.ค.-2002
<u>For the Month</u>	<u>3/2546</u>			
SER-0000000009	Super Wall Protect	-68	Deepanum supplier	13-ก.ค.-2003
SER-0000000012	fixed wall	68	Deepanum supplier	13-ก.ค.-2003

Figure C-12 The Project With Plant's Quoted Report

V Screen Co.ltd
The project which plant's not quoted

Page 1 of 1

13/3/2546

<u>Serviceorder ID</u>	<u>Project Name</u>	<u>From Customer</u>	<u>Orderdate</u>
<u>For the Month</u>	<u>3/2545</u>		
SER-0000000013	Charlton	Charlton company	28-ธ.ค.-2002
SER-0000000014	Dummy poof	Dummy co.ltd	28-ธ.ค.-2002
<u>For the Month</u>	<u>4/2545</u>		
SER-0000000016	cover pan	Inel company	3-พ.ย.-2002
SER-0000000019	hole10	Charlton company	18-พ.ย.-2002
SER-0000000021	Dummy5	Dummy co.ltd	18-พ.ย.-2002
<u>For the Month</u>	<u>5/2545</u>		
SER-0000000023	Max Paln	Inel company	24-พ.ค.-2002
<u>For the Month</u>	<u>6/2545</u>		
SER-0000000024	Jame June	Dummy co.ltd	22-ธ.ย.-2002
SER-0000000025	Super Jim	ARC industrial co.ltd	22-ธ.ย.-2002
SER-0000000026	Komol	Prime Consultant	22-ธ.ย.-2002

Figure C-13 The Project With Plant's not quoted Report

V Screen Co.ltd
The project which Customer's confirmed

Page 1 of 1

13/3/2546

<u>ServiceorderID</u>	<u>Project name</u>	<u>Total price</u>	<u>Duration</u>	<u>Company Name</u>	<u>Confirmdate</u>
For the Month 1/2545					
SER-0000000001	Tohome	2,500	2	Ampbor Serveice co.ltd	05-นา 11กน-2002
SER-0000000002	Wall	1,250	2	Dummy co.ltd	05-นา 11กน-2002
SER-0000000004	Water Polution	1,250	3	RF Supplie co.ltd	05-นา 11กน-2002
For the Month 5/2545					
SER-0000000010	Tapping floor	87,500	10	RF Supplie co.ltd	01-พฤษภาคม-2002
SER-0000000005	Pan ReNew	62,500	5	Deepanum supplier	01-พฤษภาคม-2002
SER-0000000015	pan	49,432	9	Ampbor Serveice co.ltd	01-พฤษภาคม-2002
SER-0000000008	Special Deal	46,250	12	Inel company	01-พฤษภาคม-2002
SER-0000000017	cfgt	43,750	5	Charlton company	01-พฤษภาคม-2002
SER-0000000007	Wall Fix	43,750	7	Deepanum supplier	01-พฤษภาคม-2002

Figure C-14 The Project With Customer's Confirmed Report

V Screen Co.ltd
The project which Customer's cancelled
13/3/2546

Page 1 of 1

<u>Service orderID</u>	<u>Project name</u>	<u>Total price</u>	<u>Duration</u>	<u>Company Name</u>	<u>Cancel date</u>
<u>For the Month</u>					

Figure C-15 The Project with Customer’s Cancelled Report



V Screen Co.ltd
The most profitable project

Page 1 of 1

13/3/2546

<u>Project name</u>	<u>Total price</u>	<u>Profit</u>	<u>Company Name</u>	<u>Confirm date</u>
Tapping floor	87,500	8,750.00	RF Supplie co.ltd	01-พ.ค.-2002
Pan ReNew	62,500	6,250.00	Deepanum supplier	01-พ.ค.-2002
pan	49,432	4,943.00	Ampbor Serveice co.ltd	01-พ.ค.-2002
Special Deal	46,250	4,625.00	Inel company	01-พ.ค.-2002
Wall Fix	43,750	4,375.00	Deepanum supplier	01-พ.ค.-2002
cfgt	43,750	4,375.00	Charlton company	01-พ.ค.-2002
Wonderfull project	33,150	3,315.00	Inel company	01-พ.ค.-2002
Wall Secure	25,000	2,500.00	Charlton company	01-พ.ค.-2002
dun	25,000	2,500.00	Dummy co.ltd	01-พ.ค.-2002
Hole Full	18,750	1,875.00	Dummy co.ltd	01-พ.ค.-2002
Vensu	12,500	1,250.00	Venushouse	01-พ.ค.-2002
Tohome	2,500	250.00	Ampbor Serveice co.ltd	05-พ.ค.-2002
Wall	1,250	125.00	Dummy co.ltd	05-พ.ค.-2002
Water Polution	1,250	125.00	RF Supplie co.ltd	05-พ.ค.-2002

Figure C-16 The Most Profitable Project Report

V Screen Co.ltd
The most demand sevice in each month

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13/3/2546

<u>Service ID</u>	<u>Service name</u>	<u>Time</u>	<u>Plant name</u>
<u>For the Month</u> 1/2545			
S-0003	Repair wall	2.00	Brew
S-0001	TapLon	1.00	Morgan
S-0002	Cover Pan	1.00	Brew
S-0005	Fix a hole	1.00	Morgan
S-0010	Cover Roof	1.00	B&N
<u>For the Month</u> 2/2545			
S-0002	Cover Pan	2.00	Brew
S-0001	TapLon	1.00	Morgan
S-0003	Repair wall	1.00	Brew
S-0004	Paint wall	1.00	Brew
S-0007	Wax Sofa	1.00	Tanasiri Ind.
S-0008	Paint Funiture	1.00	B&N
S-0010	Cover Roof	1.00	B&N
S-0011	Cover Stanled Spoon	1.00	B&N

Figure C-17 The Most Demand Service in Each Month Report

V Screen Co.ltd
The most demand service in each Year

Page 1 of 1

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<u>Service ID</u>	<u>Service name</u>	<u>Time</u>	<u>Plant name</u>
<u>For the Year</u>	2545		
S-0002	Cover Pan	5.00	Brew
S-0003	Repair wall	3.00	Brew
S-0001	TapLon	2.00	Morgan
S-0005	Fix a hole	2.00	Morgan
S-0008	Paint Funiture	2.00	B&N
S-0010	Cover Roof	2.00	B&N
S-0011	Cover Stanled Spoon	2.00	B&N
S-0004	Paint wall	1.00	Brew
S-0006	Wax Floor	1.00	Tanasiri Ind.
S-0007	Wax Sofa	1.00	Tanasiri Ind.

Figure C-18 The Most Demand Service in Each Year Report

V Screen Co.ltd
The Most Profit Product for each
Product type

Page 1 of 2

13/3/2546

<u>ItemModel</u>	<u>FullName</u>	<u>SellPrice</u>	<u>Cost</u>	<u>Profit</u>	<u>From Supplier</u>
Product type	FloorProTect				
FL4	Floor Protect Clean 75 Percent	6,500	5,500.00	1,000.00	Digiland (Thailand) Co., L
FL6	Floor Protect Clean 50 Percent	6,500	5,800.00	700.00	ATC (Thailand) Co., Ltd
FL1	Floor Protect Clean 55 Percent	5,500	5,000.00	500.00	App Soft Track Co., Ltd.
FL2	Floor Protect Clean 90 Percent	6,000	5,500.00	500.00	Digiland (Thailand) Co., L
FL3	Floor Protect Clean 80 Percent	6,500	6,000.00	500.00	App Soft Track Co., Ltd.
FL5	Floor Protect Clean 80 Percent Special	6,500	6,000.00	500.00	ATC (Thailand) Co., Ltd
Product type	GlassproTect				
GL5	Glass Protection 55 Percent	4,500	3,250.00	1,250.00	App Soft Track Co., Ltd.
GL1	Glass Protection 95 Percent	6,000	5,000.00	1,000.00	Hi end Power Co., Ltd
GL4	Glass Protection 65 Percent	4,000	3,000.00	1,000.00	App Soft Track Co., Ltd.
GL6	Glass Protection 45 Percent	5,000	4,500.00	500.00	App Soft Track Co., Ltd.
GL2	Glass Protection 85 Percent	6,300	6,000.00	300.00	Siralee Co., Ltd

Figure C-19 Profit For Each Product By Product Type Report

V Screen Co.ltd
Product sale by each month

Page 1 of 6

13/3/2546

<u>ItemModel</u>	<u>FullName</u>	<u>ItemQuant</u>	<u>UnitPrice</u>	<u>Net</u>
1/2545				
GL4	Glass Protection 65 Percent	20	4,000.00	80,000.00
GL4	Glass Protection 65 Percent	15	4,000.00	60,000.00
FL4	Floor Protect Clean 75 Percent	10	6,500.00	65,000.00
GL2	Glass Protection 85 Percent	10	6,300.00	63,000.00
REST4	Liquid For Restroom Protect 60 Percent	10	7,200.00	72,000.00
GL5	Glass Protection 55 Percent	10	4,500.00	45,000.00
REST3	Liquid For Restroom Protect 55 Percent	10	7,300.00	73,000.00
FL5	Floor Protect Clean 80 Percent Special	10	6,500.00	65,000.00
GL2	Glass Protection 85 Percent	10	6,300.00	63,000.00
GL5	Glass Protection 55 Percent	10	4,500.00	45,000.00
GL2	Glass Protection 85 Percent	10	6,300.00	63,000.00
REST4	Liquid For Restroom Protect 60 Percent	10	7,200.00	72,000.00
REST5	Liquid For Restroom Protect 65 Percent	7	7,300.00	51,100.00
GL2	Glass Protection 85 Percent	7	6,300.00	44,100.00

Figure C-20 Profit Sale By Each Month Report

V Screen Co.ltd
Product sale by each Year

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13/3/2546

<u>ItemModel</u>	<u>FullName</u>	<u>ItemQuant</u>	<u>UnitPrice</u>	<u>Net</u>
2545				
GL4	Glass Protection 65 Percent	20	4,000.00	80,000.0
REST4	Liquid For Restroom Protect 60	20	7,200.00	144,000.0
Se6	Seliclone 50 %	20	8,500.00	170,000.0
Wa6	Protect Water 50 %	15	6,200.00	93,000.0
GL4	Glass Protection 65 Percent	15	4,000.00	60,000.0
FL5	Floor Protect Clean 80 Percent	10	6,500.00	65,000.0
FL4	Floor Protect Clean 75 Percent	10	6,500.00	65,000.0
GL2	Glass Protection 85 Percent	10	6,300.00	63,000.0
Se3	Seliclone 80 %	10	6,000.00	60,000.0
GL4	Glass Protection 65 Percent	10	4,000.00	40,000.0
REST2	Liquid For Restroom Protect 95	10	6,900.00	69,000.0

Figure C-21 Product Sale By Each Year

V Screen Co.ltd
Sale of each Product type by Month

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For the month	1/2545	
Product type	FloorProTect	
	FL4	
	Floor75	
	Price	6,500
	Quantity Sold	5
	Net Total	32,500.00
	FL5	
	Floor80se	
	Price	6,500
	Quantity Sold	5
	Net Total	32,500.00
	FL5	
	Floor80se	
	Price	6,500
	Quantity Sold	10
	Net Total	65,000.00

Figure C-22 Sale Of Each Product Type Report

By Month

V Screen Co.ltd
Best selling Product in order by Month

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Model	Name	Qty Sold	Price	Net Total
For the Month	1/2545			
GL2	Glass85	42.00	6,300.00	264,600.00
GL4	Glass65	40.00	4,000.00	160,000.00
REST4	Rest60	25.00	7,200.00	180,000.00
FL4	Floor75	20.00	6,500.00	130,000.00
GL5	Glass55	20.00	4,500.00	90,000.00
FL5	Floor80se	15.00	6,500.00	97,500.00
REST3	Rest55	15.00	7,360.00	109,500.00
FL3	Floor80	13.00	6,500.00	84,500.00
REST5	Rest65	7.00	7,300.00	51,100.00
GL3	Glass75	5.00	7,300.00	36,500.00
GL6	Glass45	5.00	5,000.00	25,000.00
Se1	Selicon100	5.00	15,000.00	75,000.00
Se2	Selicon95	5.00	6,000.00	30,000.00
FL2	Floor90	3.00	6,000.00	18,000.00
For the Month	2/2545			
Se2	Selicon95	40.00	6,000.00	240,000.00
Se6	selicon50	25.00	8,500.00	212,500.00

Figure C-23 Best Selling Product In Order Report
 By Month

V Screen Co.ltd
Best selling Product in order by Year
13/3/2546

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Model	Name	Qty Sold	Price	Net Total
For the year GL2	2545 Glass85	98.00	6,300.00	617,400.00
REST4	Rest60	86.00	7,200.00	619,200.00
FL4	Floor75	66.00	6,500.00	429,000.00
GL4	Glass65	66.00	4,000.00	264,000.00
GL5	Glass55	63.00	4,500.00	283,500.00
Se2	Selicon95	61.00	6,000.00	366,000.00
Se6	selicon50	49.00	8,500.00	416,500.00
FL3	Floor80	44.00	6,500.00	286,000.00
FL5	Floor80se	43.00	6,500.00	279,500.00
GL1	Glass95	43.00	6,000.00	258,000.00
FL1	Floor55	35.00	5,500.00	192,500.00
REST3	Rest55	29.00	7,300.00	211,700.00
FL6	Floor50	27.00	6,500.00	175,500.00

Figure C-24. Best Selling Product In Order Report

By Year

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