

# FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

# Sale & Inventory System

**Supervisor:** LÊ THANH NHÂN

Semester: 01

**Batch No:** *T1.2010.E0* 

**Group No:** 03

Order:	Full name	Roll No.
1.	Nguyễn Dĩ Thái	Student1278906
2.	Lê Châu Hoàng Nhựt	Student1278918
3.	Lý Vĩnh Phú	Student1280935

Month: 8 Year: 2021

INIS I	s to certify that
Mr.	NGUYỄN DĨ THÁI
Mr.	LÊ CHÂU HOÀNG NHỰT
Mr	LÝ VĨNH PHÚ
Have suc	ccessfully Designed & Developed
SALI	E & INVENTORY SYSTEM
Submitte	ed by:
	Mr. LE THANH NHAN
Date Of	Issue:
Authoriz	zed Signature:

# Content

Acknowledge
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## Acknowledge

As we understand that the eProject is a step-by- step learning environment that closely simulates the class-room and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to.

- ✓ Practice step by step i.e. laddered approach.
- ✓ Build a larger more robust application.
- ✓ Usage of certain utilities in applications designed by user.
- ✓ Single program to unified code leading to a complete application.
- ✓ Learn implementation of concepts in a phased manner.
- ✓ Enhance skills and add value.
- ✓ Work on real life projects.
- ✓ Give a real life scenario and help to create applications more complicated and useful.
- ✓ Mentoring through email support.

We would like to send a great thank to our professor and others student for the adorable supports during the time in project.

Beside several mistakes we had made in the project, we hope to have more opportunities to widen our knowledge in web developing world.

We also thank you so much for your information and the "demo" project from India APTECH to help us get more reality experience in this project. Since we have gained more experience from this project, we will not stop learning any thing as much as we can to be more successful in the future.

Your Sincerely,

Team Group 03.

# **Synposis**

The Objective of this program we aim is to give a sample project to work on real life projects. These applications help us build a larger more robust application.

The objective is not to teach us HTML/JavaScript but to provide us with a real life scenario and help us create basic applications using the tools.

Hence, we can revise the chapters before we start with the project.

This project is meant for students like us who have completed the module of HTML5. These programs should be done in the Lab sessions with assistance of the faculty if required.

The website (in this project) is internal system Sale And Inventory. Which is used for insert, order and manage products in ware house. This website make the procedure become friendly, easy for manage.

It is very essential for us that will have a clear understanding of the subject. We think we should go through the project and solve the assignments as per requirements given.

Design Plan:	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Sale & Inventory System		
Effective Date:22-08-2021	Version 1.0	Page No: 1 of 32

### **Problem Definition**

The term 'sales and inventory system' is a software-based business solution which is utilized to simultaneously track sales activity in addition to inventory. Trade resellers can gain advantages from a thorough solution, where a single transaction entry records required details on the customer, responsible sale, products bought, price and date while also revising inventory levels.

The main objective of an all-encompassing sales and inventory software solution is to optimize efficiency by recording each factor which is involved in the sale order, approval of sale manager, delivery goods and revising stock in warehouse, beside that this software will help to record the receipt goods and first in first out process in warehouse. In days gone by, companies would have to conclude separate record-keeping processes for the income in addition to the inventory change. With a sales and inventory management solution, each factor is coordinated with a single entry in the software program.

This is the company's internal software related to departments such as sales, logistics, accounting and admin with the following activities:

✓ Sale receives orders from customers in charge, then will place orders on the system. Sale manager will go to see the list of sales he manages and approve the order. The approved order will go to the logistics department to schedule delivery to customer at the scheduled time.

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Design Plan:	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Sale & Inventory System		
Effective Date:22-08-2021	Version 1.0	Page No: 2 of 32

- ✓ Logistic will be in charge of importing new goods into the warehouse and exporting goods from the warehouse to deliver to customers according to the order according to the principle of first in first out.
- ✓ Accountants create accounts for customers in charge of sales, create selling prices for each product, create invoices and manage customer debts.
- ✓ Admin will manage the account to log in to the system, create a new account or update the old account. Admin will also be able to view the sales order creation process and expedite order approval from the sales manager.

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Design Plan:	Document Name:	SWD/Form No.02/CRS/Ver1.0
Sale & Inventory System	Customer Requirements Specifications	
Effective Date:22-08-2021	Version 1.0	Page No: 3 of 32

### **Customer Requirements Specifications**

### User:

### input:

- View the Inventory
- View Order's information.
- View Customer's information.
- Approve new Order

#### **Process:**

- Search products from database.
- Insert Order in database.
- Search customer from database.

#### **Output:**

- Notification of successful add new Order/ failure.
- Products inventory.
- Customer information.

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Design Plan:	Document Name:	SWD/Form No.02/CRS/Ver1.0
Sale & Inventory System	Customer Requirements Specifications	
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### Admin:

### input:

- View Staff's information.
- Create new Staff.
- Highest approval for Order.

#### **Process:**

- Search Staff from database.
- Insert new in Staff table.
- Add new Order by admin's approval.

### **Output:**

- Notification to create successful Staff/failure.
- Notification to create successful Order/failure.
- Notification to update Staff's role.

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Design Plan:	Document Name:	SWD/Form No.02/CRS/Ver1.0
Sale & Inventory System	Customer Requirements Specifications	
Effective Date:22-08-2021	Version 1.0	Page No: 5 of 32

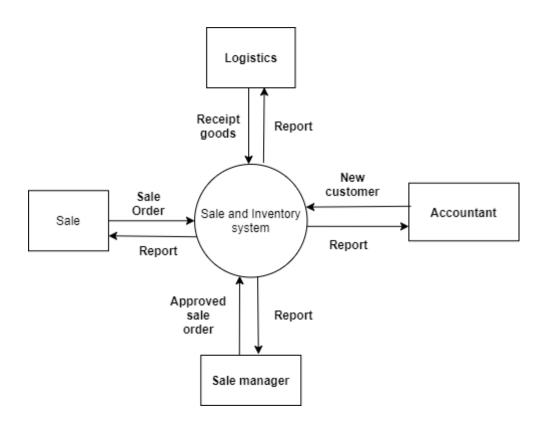
### Hardware / software requirement:

Sr.	Item	Description		
1.	Operating system	Windows 7, 8, or higher		
2.	Hardware	CPU cores or better with 2 Gigabytes of RAM or better		
3.	Web Browser	Version in later of: Edge, Firefox, Chrome, etc		
4.	Fonts	Standard font Unicode: Arial, Tahoma, Lucida Console, Times New Roman, etc		
5.	Other requirement	Git, XAMPP 7.3 or later   A working internet connection		

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Date		

Design Plan:	Document Name:	SWD/Form No.03/DFD/Ver1.0
Sale & Inventory System	Data Flow Diagram	
Effective Date:20-08-2021	Version 1.0	Page No: 6 of 32

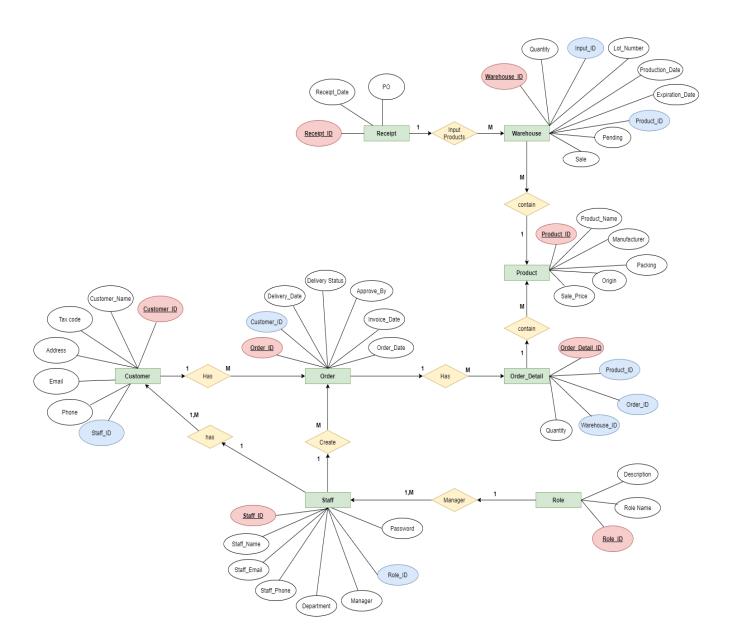
## **Data Flow Diagram**



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Signature		
Date		

Design Plan:	Document Name:	SWD/Form No.04/ERD/Ver1.0
Sale & Inventory System	Entity Relationship Diagram	
Effective Date:20-08-2021	Version 1.0	Page No: 7 of 32

### **Entity Relationship Diagram**



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Date			

Design Plan:	Document Name:	SWD/Form No.05/TAB/Ver1.0
Sale & Inventory System	Table Design	
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# A. Table Design

Receipt					
Serial	Fields	Data_type	Keys	Contrains	Description
1	Receipt_ID	Varchar(20)	PK	Not null	Receipt Identification
2	Receipt_Date	Datetime		Not null	Receipt Date
3	PO	Varchar(50)		Not null	Purchasing_Order

	Role				
Serial	Fields	Data_type	Keys	Contrains	Description
1	Role_ID	Varchar(20)	PK	Not null	Role Identification
2	Role_Name	Varchar(50)		Not null	Role Name
3	Description	Varchar(50)		Null	Description for Role

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Design Plan:	Document Name:	SWD/Form No.05/TAB/Ver1.0
Sale & Inventory System	Table Design	
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	Customer						
Serial	Fields	Data_type	Keys	Contrains	Description		
1	Customer_ID	Varchar(20)	PK	Not null	Customer's Identification		
2	Customer_Name	Varchar(50)		Not null	Customer's Name		
3	Tax_code	Varchar(50)		Not null	Tax of Customer		
4	Address	Varchar(100)		Not null	Customer's Address		
5	Email	Varchar(50)		Not null	Customer's Email		
6	Phone	Varchar(50)		Not null	Customer's phone number		
7	Person	Varchar(50)		Not null	Contact person		
8	Contact	Varchar(50)		Not null	Contact phone		
9	Staff_ID	Varchar(20)	FK	Not null	Staff's identification		

	Staff						
Serial	Fields	Data_type	Keys	Contrains	Description		
1	Staff_ID	Varchar(20)	PK	Not null	Staff's identification		
2	Staff_Name	Varchar(50)		Not null	Staff's Name		
3	Staff_Email	Varchar(50)		Not null	Staff's Email		
4	Staff_Phone	Varchar(20)		Not null	Staff's Phone numer		
5	Department	Varchar(50)		Not null	Staff's department		
6	Manager_ID	Varchar(20)		Not null	Staff's manager identification		
7	Password	Varchar(50)		Null	Staff's password		
8	Role_ID	Varchar(20)	FK	Not null	Role's identification		

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Date		

Design Plan:	Document Name:	SWD/Form No.05/TAB/Ver1.0
Sale & Inventory System	Table Design	
Effective Date:20-08-2021	Version 1.0	Page No: 10 of 32

	OrderMaster						
Serial	Fields	Data_type	Keys	Contrains	Description		
1	OrderMaster_ID	Varchar(20)	PK	Not null	Ordermaster Identification		
2	OrderMaster_Date	Datetime		Not null	Order Date		
3	Delivery_Date	Date		Not null	Delivery Date		
4	Approval	Varchar(100)		Not null	Who approve		
5	Delivery_Status	Varchar(50)		Not null	Status of Delivery		
6	Invoice_Date	Date		Not null	Invoice Date		
7	Customer_ID	Varchar(20)	FK	Null	Customer identification		

	OrderDetail					
Serial	Fields	Data_type	Keys	Contrains	Description	
1	OrderDetail_ID	Int(11)	PK	Not null	Orderdetail Identification	
2	Quantity	Int(10)		Not null	Quantity	
3	Product_ID	Varchar(20)	FK	Null	Product identification	
4	OrderMaster_ID	Varchar(20)	FK	Null	Ordermaster identification	
5	Warehouse_ID	Varchar(20)	FK	Null	WareHouse identification	

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Date		

Design Plan:	Document Name:	SWD/Form No.05/TAB/Ver1.0
Sale & Inventory System	Table Design	
Effective Date:20-08-2021	Version 1.0	Page No: 11 of 32

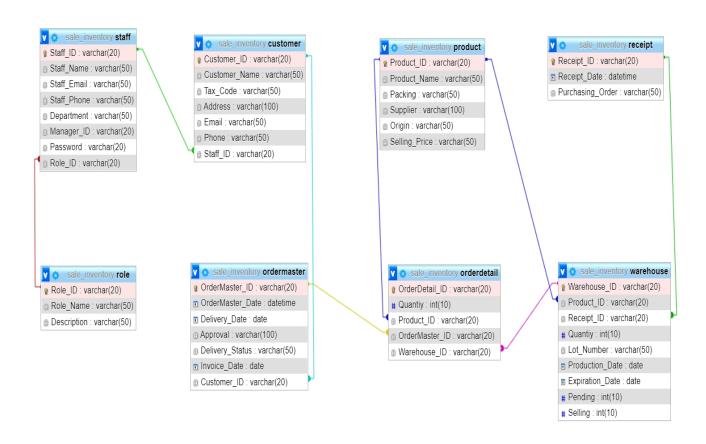
	Product						
Serial	Fields	Data_type	Keys	Contrains	Description		
1	Product_ID	Varchar(20)	PK	Not null	Product's Identification		
2	Product_Name	Varchar(50)		Not null	Product's name		
3	Packing	Varchar(50)		Not null	Packing		
4	Supplier	Varchar(100)		Not null	Supplier		
5	Origin	Varchar(50)		Not null	Origin		
6	Selling_Price	Varchar(50)		Not null	Selling Price		

	Warehouse						
Serial	Fields	Data_type	Keys	Contrains	Description		
1	Warehouse_ID	Varchar(20)	PK	Not null	Warehouse's Identification		
2	Product_ID	Varchar(50)	FK	Not null	Product's Identification		
3	Receipt_ID	Varchar(20)	FK	Not null	Receipt's identification		
4	Quantity	Int(10)		Not null	Input Quantity		
5	Lot_Numer	Varchar(50)		Not null	Lot numer		
6	Production_date	Date		Not null	Date of manufacture		
7	Expiration_Date	Date		Not null	Expiration Date		
8	Pending	Int(10)		Not null	Pending quantity		
9	Selling	Int(10)		Not null	Sold quantity		

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Date		

Design Plan:	Document Name:	SWD/Form No.05/TAB/Ver1.0
Sale & Inventory System	Table Design	
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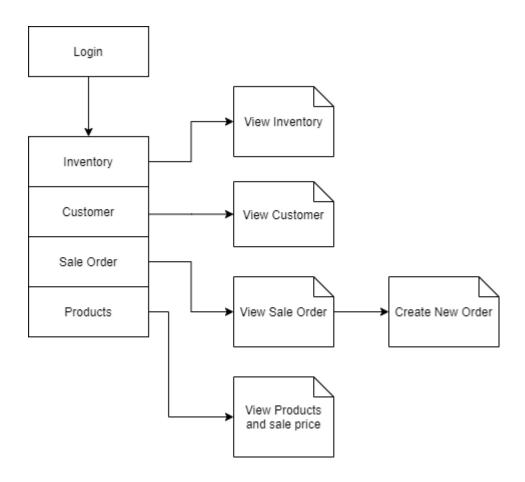
### **B.** Relationship Diagram



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Signature			
Date			

Design Plan:	Document Name: Site Map	SWD/Form No.06/SM/Ver1.0
Sale & Inventory System		
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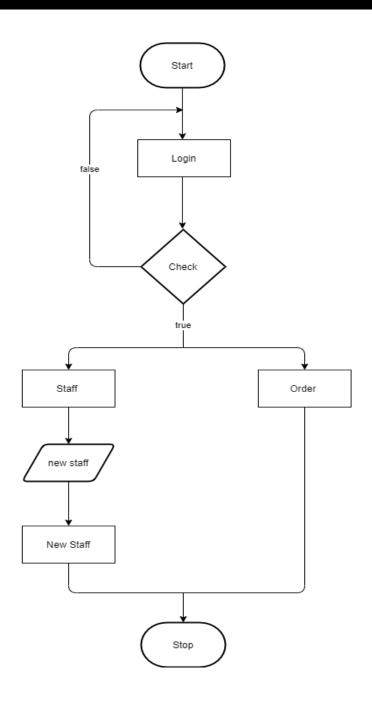
# Site Map



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Signature		
Date		

Design Plan:	Document Name: Algorithm	SWD/Form No.07/ALG/Ver1.0
Sale & Inventory System		
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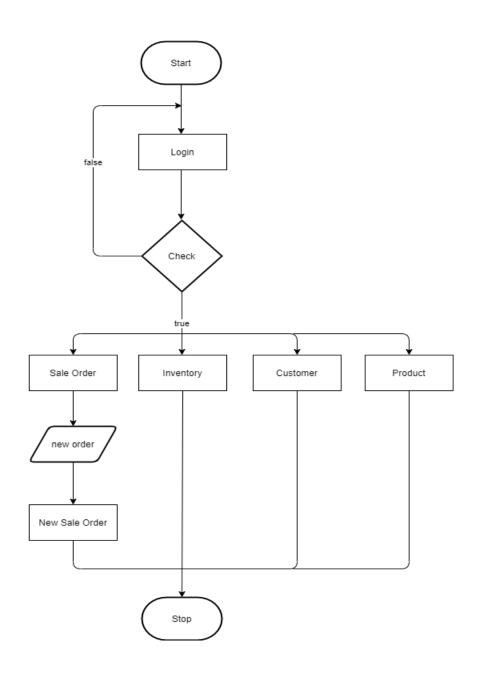
# A. admin



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Signature			
Date			

Design Plan:	Document Name: Algorithm	SWD/Form No.07/ALG/Ver1.0
Sale & Inventory System		
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### B. user



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Signature			
Date			

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### **Screen shots**

### I. LoginPage:

Login Form

**Description**: Use for login.

From : Default page when connect website.

To : Homepage.

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Signature			
Date			

Footer

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### II. User page:

Logo	Header		
-			
Home			
Customer	Relation Table	Relation Table	
Staff			Recent Products
Product	Relation Table	Relation Table	
Inventory			
Sale Order			
Delivery			
		Footer	

**Description** : Account Relation table.

From : Login page.

To : Relation page from navigation bar.

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Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### III. Customer:

Logo	Header	
Home		Search
Customer		
Staff	Customer Table	
Product		
Inventory		
Sale Order		Pagination
Delivery		
	Footer	

**Description**: List customer information.

From : Homepage

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Signature		
Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### IV. Staff:

Logo	Header	
		Search
Home		
Customer		
Staff	Staff Table	
Product		
Inventory		
Sale Order		Pagination
Delivery		
	Footer	

**Description** : List staff information.

From : Home page

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Signature		
Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### V. Product:

Logo	Header	
		Search
Home		
Customer		
Staff	Products Table	
Product		
Inventory		Γ
Sale Order		Pagination
Delivery		
	Footer	

**Description**: List of products.

From : Homepage.

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Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0
Sale & Inventory System		
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### VI. Inventory:

Logo	Header	
Home		Search
Customer		
Staff	Inventory Table	
Product		
Inventory		
Sale Order		Pagination
Delivery		
	Footer	

**Description**: List of products in warehouse.

From : Homepage.

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Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0	
Sale & Inventory System			
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### VII. Sale Order:

Logo	Header
Home	
Customer	
Staff	Order Form
Product	
Inventory	
Sale Order	
Delivery	
	Footer

**Description** : Form for Order product.

From : Homepage.

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Signature		
Date		

Design Plan:	Document Name: Screen Shots	SWD/Form No.08/SS/Ver1.0	
Sale & Inventory System			
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### VIII.Receipt:

Logo	Header	
		Search
Home		
Customer		
Staff	Receipt Table	
Product		
Inventory		
Sale Order		Pagination
Delivery		
	Footer	

**Description**: List of receipt.

From : Homepage.

To : Inventory.

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Signature		
Date		

Design Plan:	Document Name: Testing document	SWD/Form No.09/TD/Ver1.0	
Sale & Inventory System			
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# **Testing Document**

Sr.No	Features Tested	Remarks
1	Test plan is complete planning document which contains	
	the scope, approach, resources, schedule, etc. of testing	
	activities.	
2	Traceability Matrix: This is a document which connects	
	the requirement to the test cases.	
3	Test scenario is an item or event of software system which	
	could be verified by one or more Test cases.	
4	Test case: It is a group of input values, execution	
	preconditions, expected execution postconditions and	
	result. It is developed a Test Scenario.	
5	Test data is a data which exists before a test is executed. It	
	used to execute the test case.	
6	Defect report is a documented report of any flaw in a	
	Software System which fails to perform its expected	
	function.	
7	Test summary report is a high-level document which	
	summarizes testing activities conducted as well as the test	
	result.	

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Design Plan:	Document Name: Final Checklist	SWD/Form No.10/FC/Ver1.0	
Sale & Inventory System			
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# Final Checklist

Sr.No	Aspect Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all validation of password, email in login is working?	
9	Test function mail php in forgot password	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	

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Design Plan:	Document Name: Task Sheet	SWD/Form No.11/TS/Ver1.0
Sale & Inventory System		
Effective Date:20-08-2021	Version 1.0	Page No: 26 of 32

### Task Sheet

	Member	Member Contents Table name	Activity Plan	Date of Prepar	ration of A Plan	ctivity		
	TVICING CI		Contents	Table liame	Planed Start Date	Actual Start Date	Actual Day	Status
1		Admin	Add/update		5/9/2021	10/9/2021	5	
2	Nguyễn Dĩ Thái	7 Kumm	Receipt/Product/Warehouse	Receipt Warehouse	5/9/2021	10/9/2021	5	
3	1 iguyon Di inai	User	View inventory	Products	10/9/2021	15/9/2021	5	
4		0301	view inventory		10/9/2021	15/9/2021	5	

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Date		

Design Plan:	Document Name: Task Sheet	SWD/Form No.11/TS/Ver1.0
Sale & Inventory System		
Effective Date:20-08-2021	Version 1.0	Page No: 27 of 32
		<u> </u>

1		Admin	Add new Customer/staff		5/9/2021	10/9/2021	5	
2	Lê Châu Hoàng	Admin	Change Role	Customer Staff	5/9/2021	10/9/2021	5	
3	Nhựt	User	View information by themselves	Role	10/9/2021	15/9/2021	5	
4			View their customer		10/9/2021	15/9/2021	5	

1		Admin	Order managerment		5/9/2021	10/9/2021	5	
2	I & Wanh Dhá	7 Kuiiiii	Order managerment	Order	5/9/2021	10/9/2021	5	
3	Lý Vĩnh Phú	User	Add new Order	Order_detail	10/9/2021	15/9/2021	5	
4		User	Change Order's Status		10/9/2021	15/9/2021	5	

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Signature		
Date		