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Score sheet?

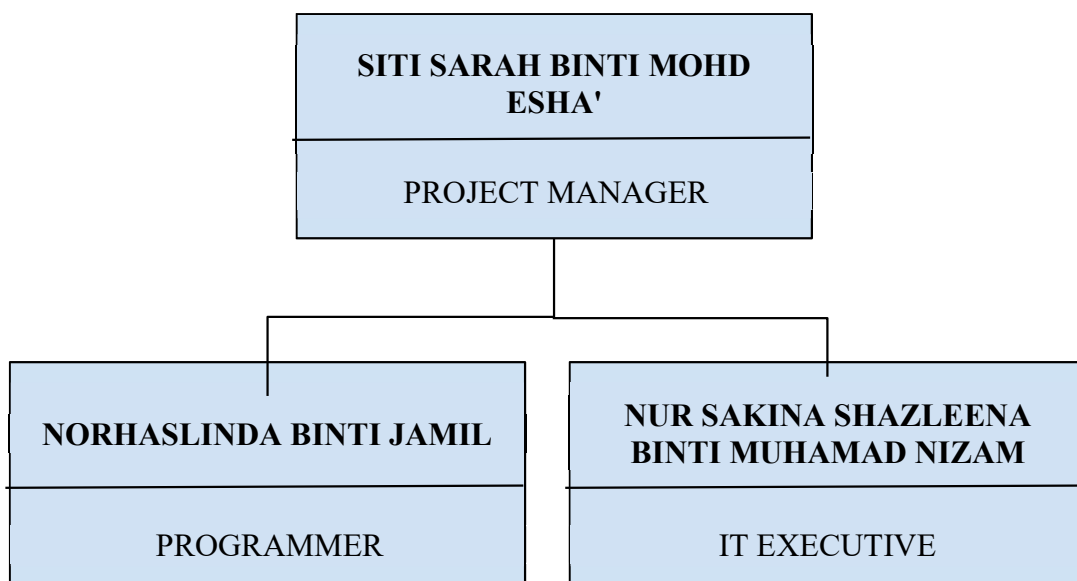
Should list 3-4 functions for  
each CRUD operation.

Make amendments and proceed with development

## 1.0 INTRODUCTION

Mini Mart Inventory Management System (IMS) is a stand-alone system that assists mini mart owners in managing their mini mart's data and information. The Mini Mart Inventory Management System will be developed for TriMart Berhad. It provides a solution for replacing the manual work required to manage mini marts' daily records of inventory and stock. TriMart Berhad has been operating for almost 3 years and started operating at the beginning of January 2020. The mini mart was established to provide facilities for local residents to buy dry or wet goods easily at a close distance. In addition, provide efficient and best service to customers. The mini mart has eight employees who have different job backgrounds. However, mini marts require a full-featured management system to manage all stored data and information in a systematic and efficient manner. Mini Mart Inventory Management System is designed for mini marts to manage product, inventory, supplier, and users information using computerized system and with cost-effective manner.

### 1.1 ROLE OF MEMBERS



*Figure 1.1: TriTech Berhad Organizational Chart*

#### **SITI SARAH BINTI MOHD ESHA'** (Project Manager)

- Ensure that all group members have the necessary abilities and keep track of the development of the group project.
- In charge of the objective, flow of application, database design and project compilation.

**NUR SAKINA SHAZLEENA BINTI MUHAMAD NIZAM (IT Executive)**

- Using whatsapp and google meet to distribute work and discuss work proposals.
- In charge of the objective, problem statement and database design.

**NORHASLINDA BINTI JAMIL (Programmer)**

- In charge of the introduction, problem statement and flow of application.
- Using whatsapp and google meet to distribute work and discuss work proposals.

## **2.0 PROBLEM STATEMENT**

### **1. Data cannot be accessible online**

The problems with the current existing Mini Mart Inventory System is that the data cannot be accessible online which is it is not convenient. It is hard for multiple users to access the data since it is stored offline.

### **2. Possibility of data loss**

When our data is stored offline in files and desktops, it is prone to a number of disasters. Theft or a natural calamity can lead to the permanent loss of the data. On the contrary, when everything is saved on the cloud, there is absolutely no chance of the data getting affected by such an incident.

### **3. Risk of security**

There is no security measure to keep the data safe from abuse if there is no security breach, outsiders can hack our data and all confidential information can be spread to other companies or outside parties.

### 3.0 OBJECTIVES

Mini Mart Inventory Management System (IMS) serves many purposes when introduced in an organization by making the work easier and simplified. The objective or purpose behind implementing an inventory management system in an organization can sum up as under:

1. To keep records of the complete inventory.

It supports inventory management, which enables it to record and monitor materials based on their amount and worth. Cash flow, visibility, and decision-making are all improved.

2. To ensure information security

Information security is important in an organization. Organization-related information cannot be disclosed to the public.

3. It helps in reducing the capital investment that grew owing to keeping an excessive amount of stocks.

Actual demand would be estimated, and stock would be maintained accordingly. Hence, there would be no excessive stocking.

## 4.0 FLOW OF APPLICATION

Flow of application of Mini Mart Inventory Management system provides insights to developer to develop the system with a good understanding of how the system should operate. Flow of the application can be defined as a path that user of the system might take in the Mini Mart Inventory Management system. It is an illustration of the path to explore how a user would navigate through the system or to complete a specific task in the system.

### 4.1 CREATE

Register new user either staff or manager.

*anybody can register?*

User of the Mini Mart Inventory Management system must register in the system before they can use the system. User need to fill in all the details required before they can click the register button. If the user already registered, user need to click Sign up hyperlink at the bottom of the page.

**Mini Mart Inventory Management System**

**Register**

Please fill in this form to create an account.

**Username**  
Enter Username

**Password**  
Enter Password

**Confirm Password**  
Confirm Password

**Position**  
Select Position

**Name**  
Enter Name

**Address**  
Enter Address

**Phone**  
Enter Phone Number

By creating an account you agree to our [Terms & Privacy](#).

**Register**

Already have an account? [Sign in](#).

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Figure 4.1 Register

## 4.2 READ

Display a list of product information for the category of Stationery.

User of the system can view product information of the Mini Mart such as product ID, product name, category and unit price in ringgit Malaysia. User also able to search the product by using a keyword entered in the search bar. If there are too many products, user do not need to get hassled because the search bar will reduce time taken to find product information.

Mini Mart Inventory Management System				
Product Information				
<input type="text" value="sta"/>				
No	Product ID	Product Name	Category	Unit Price (RM)
1	P01	Notepad	Stationery	4.30
3	P03	Sticky Notes	Stationery	3.6
© All rights reserved. TriTech Sdn. Bhd.				

Figure 4.2 Product Information

## 4.3 UPDATE

Reset user password.

User can reset their current password if they have forgotten their password. User is required to enter a new password then they must re-enter the new password to confirm if the new password matched with confirm new password. This will help user to make sure the entered password is as intended and not a mistake when typing.

Mini Mart Inventory Management System

Reset Password

New Password

☐ Show New Password

Confirm New Password

☐ Show Confirm New Password

Reset Password

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Figure 4.3 Reset Password

#### 4.4 DELETE

Remove supplier information data that is no longer needed.

User is able to delete unnecessary data or data that is no longer needed with a click of a button. User need to select which data or row of the supplier information that user wishes to remove from the system by checked the checkbox at the first column then click Delete Data button at the bottom of the page.

Dashboard  
Product  
Supplier  
Inventory  
Report  
Profile  
Log out

### Mini Mart Inventory Management System

#### Supplier Information

Search si

Select	No	Supplier ID	Supplier Name	City	Phone Number
<input type="checkbox"/>	1	S01	Faber Castell	Petaling Jaya	03-83618955
<input type="checkbox"/>	2	S02	Farm Fresh	Petaling Jaya	03-92639211
<input type="checkbox"/>	3	S03	Johnson & Johnson	Shah Alam	03-94659246
<input type="checkbox"/>	4	S04	Faber Castell	Petaling Jaya	03-79472944

Delete Data

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Figure 4.4 Supplier Information

## 4.5 DASHBOARD

Display charts of various data properties.

The dashboard will provide information of Mini Mart Inventory Management system at-a-glance for user. The dashboard also can be considered as an overview of all the information stored in the Mini Mart Inventory Management system such as number of products, number of inventories, number of suppliers and top products in the mini mart by category. For more detailed information, user need to click the menu on the side bar at the left side of the page.

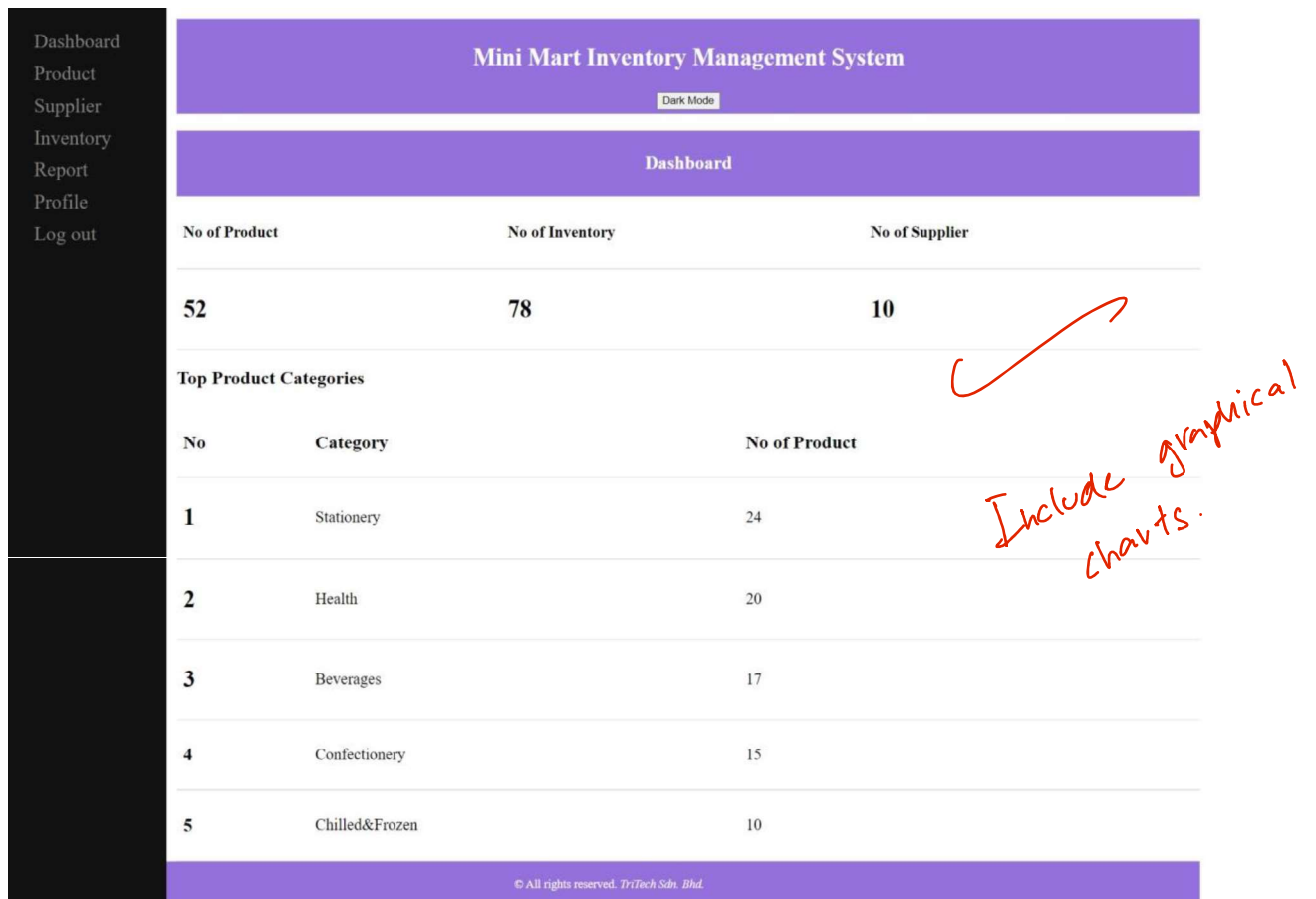


Figure 4.5 Dashboard



## 5.0 DATABASE DESIGN

Entity Relationship Diagram or known as ERD is vital for modeling the data stored in a database of the Mini Mart Inventory Management system. It is the foundational design that a database is built upon. ER diagrams specify what data the system will store, the entities and the attributes. ERD also shows how entities relate to other entities.

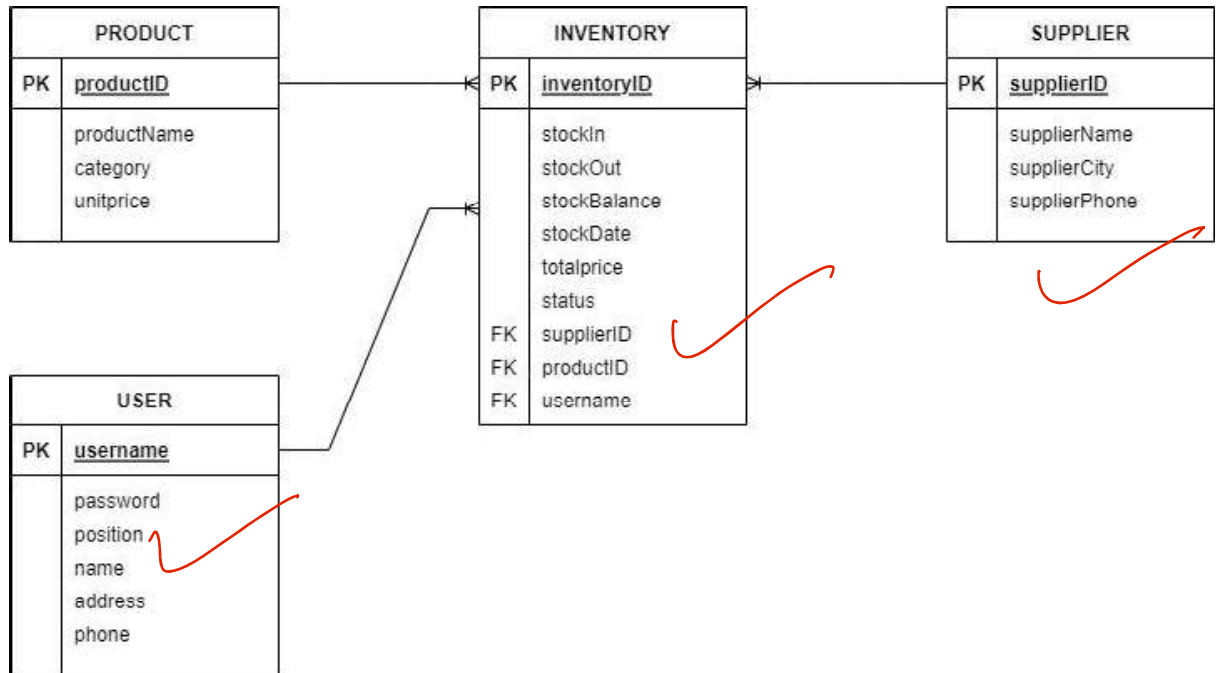


Figure 5.0 ER Diagram of Mini Mart IMS

1. Information of staff and manager of Mini Mart such as username, password, position, name, address and phone is stored.
2. Each staff and manager can manage more than one inventory but an inventory must be managed by a staff or manager.
3. Each product may have many inventory and the inventory that has been made must have a product information.
4. Each supplier may have many inventory and the inventory that has been made must have a supplier information.
5. The inventory consists of information such as inventory ID, stock in, stock out, stock balance, stock date, total price and status.
6. Each inventory can contain various categories of products and each product can be included in many inventory. The number of stock in and out of the products for each inventory is recorded.