
Software Requirements Specification

For

PAMUNUWILA HARDWARE

Version <1.0>

Prepared by

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Course: PROFESSIONAL DIPLOMA IN SOFTWARE ENGINEERING

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Date: 06th June 2021

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Introduction

PAMUNUWILA HARDWARE (Pvt) Ltd needs a Desktop Software Application to facilitate all their day-to-day activities. The SRS document for the project is designed in this way and describes the Document Purpose, Product Scope, Definitions Acronyms and Abbreviations, References, and Acknowledgments related to that document here.

Document Purpose

The main purpose of creating this software application is to make the day-to-day activities of PAMUNUWILA HARDWARE (Pvt) Ltd easier and more efficient.

Through this Software Application, functions such as Managing Owners, Managing Managers, Managing Suppliers, Managing Customers, Managing Transporters, Managing Employees, Managing Cashiers, Managing Accountants, Managing Inventory, Obtaining Budget Data, and Obtaining business Development Data Records, etc. It is the client's intention to make it easier and more efficient.

Currently, PAMUNUWILA HARDWARE (Pvt) Ltd performs all these functions manually and due to the inefficiency of the manual methodology, all parties are constantly subjected to various inconveniences.

Therefore, the main purpose of this document is to accurately identify the client's needs and gather the information needed to create a Desktop Software Application that can meet all of those requirements correctly.

Product Scope

PAMUNUWILA HARDWARE (Pvt) Ltd is a Hardware Shop. The main function of such a business is to buy and sell goods (Construction Materials). Therefore, PAMUNUWILA HARDWARE (Pvt) Ltd needs an Inventory Control System.

Owners, Managers, Suppliers, Customers, Transporters, Employees, Cashiers, and Accountants are all involved in this business.

Creating this desktop software application makes it easier for these parties to manage, manage transactions between these parties, maintain inventory data, and maintain account data.

The work of PAMUNUWILA HARDWARE (Pvt) Ltd is now much easier and more efficient as the work has become easier as mentioned above. This is the main purpose of creating this Software Application.

In addition, the Software Application offers a number of benefits such as saving a lot of time on account and warehousing, ease of human resource management, and minimizing transaction errors.

Definitions, Acronyms and Abbreviations

- Check-out –settle one's hotel before they are leaving.
- Check-in – the process whereby a guest announces their arrival at the hotel.

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References and Acknowledgments

<https://inventoryplus.in/>

Special thanks to our adviser Miss Narmada Harischandra for continuous help in every stage of the project and who continuously gives us her priceless advice to prepare this document.

Overall Description

Software Perspective

This Desktop Software Application is designed for a Hardware Shop. Construction materials are bought and sold in this business.

This software application has a number of interfaces such as Main Interface and Sub-Interfaces. Admin Panel Interface, Supplier Manager Interface, Customer Manager Interface, Transporter Manager Interface, Employee Manager Interface, Cashier manager Interface, Accountant Manager Interface, Product Manager Interface, Product Returns Manager Interface, Budget Reports Manager Interface, Invoice Manager Interface are some of those interfaces.

The first thing that appears to anyone who logs in to this software application with a username and password is the Home Interface. Main activities are handled through the Admin Panel Interface. Managers and Employees are handled by the Employee Manager Interface. Suppliers are handled by the Supplier Manager Interface. Customer-related work is done through the Customer Manager Interface. Transporters are dealt with through the Transporter Manager Interface. Cashier-related work is done through the Cashier Manager Interface. Accountants are handled by the Accountant Manager Interface. Product-related work is done through the Product Manager Interface. Product Returns are handled by the Product Returns Manager Interface. The Budget Reports Manager interface collects data about the budget. Invoice printing is done through the Invoice Manager interface.

These interfaces are always interconnected.

Users and Characteristics

Owner
Manager
Supplier
Customer
Transporter
Employee
Cashier
Accountant

Owner: *Has the privilege of supervising and delegating all functions handled by the system. He has access to everything the system does. The owner can also perform system backups and restore the system. He will be able to get all kinds of records in the system. He also has the power to direct and decide all parties involved in the business.*

Manager: *Has the privilege of overseeing and delegating certain functions handled by the system. He can access most of the work done by the system. The system has the power to make backups. He will be able to get many types of records in the system. He also has the power to direct and decide certain parties involved in the business.*

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Supplier: The supplier of construction materials required for the business. Also takes back the expired material. There is no direct access to the Software Application. Directly guided by the Supplier Manager Interface.

Customer: The party that buys the construction materials from the business. Does not have access to the Software Application. Directly guided by the Customer Manager Interface.

Transporter: The party that transports construction materials to the Hardware shop or to customers. There is no direct access to the Software Application. Directly guided by the Transporter Manager Interface.

Employees: are the working party in the hardware shop. Does not have direct access to the Software Application but can be given direct access to an employee according to the owner's authority. Directly guided by the Employee Manager Interface.

Cashiers: The party that trades money in the hardware shop. Have direct access to the Software Application. Directly guided by the Cashiers Manager interface.

Accountant: The party that manages the accounts related to the business. Have direct access to the Software Application. Directly guided by the Accountant Manager interface.

Operating Environment <Optional>

Below is the list of operating environments according to the hotel management system.

Operating system: Windows / iOS / Mac OS

Database: database + SQL (MySQL)

Distribute database

Platform: Java

Sever System, client System

Language: Software must be only English

Memory: System will have only 10GB of space of data server

Design and Implementation Constraints <Optional>

It is suggested that the company contribute to ensuring that the security of the system is always in place, as security is a major barrier, which must be encrypted with XML records and security is essential to ensure personal and corporate information. The company is reliable in maintaining the software and will receive maximum support from the developers for consistent upgrades and constant updates.

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Specific Requirements

External Interface Requirements

User Interfaces

The User Interface is described by the following points.

Interface Name	Description
Login Forms And Login Buttons	Interfaces and Buttons for accessing the Main Interface and Sub-Interfaces by entering the username and password.
Home Page	The First Interface that appears to anyone who logs in to this Software Application with a username and password.
Admin Panel Interface	Conducting Main Activities.
Supplier Manager Interface	The Interface that deals with suppliers.
Customer Manager Interface	The Interface that deals with Customers.
Transporter Manager Interface	The Interface that deals with Transporters.
Employee Manager Interface	The Interface that deals with Managers and Employees.
Cashier manager Interface	The Interface that deals with Cashiers.
Accountant Manager Interface	The Interface that deals with Accountants.
Product Manager Interface	The Interface that deals with Products.
Product Returns Manager Interface	The Interface that deals with Product Returns.
Budget Reports Manager Interface	The Interface that represents data about the Budget.
Invoice Manager Interface	The Interface that displays and prints the Invoice.
Message Dialog Boxes	To display Error Messages and Notifications
Register Buttons	Buttons for registering data about various Parties involved in the business.
Insert Buttons	Buttons for inserting data about the Materials (Construction Materials).
Update Buttons	Buttons for updating data about various Parties and Materials related to the business.
Delete Buttons	Buttons for deleting data about various Parties and Materials related to the business.
Search Buttons	Buttons for searching for something in the Software Application.
Print Buttons	Buttons for printing Invoices and various Reports.

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Hardware Interfaces

This software application designed for PAMUNUWILA HARDWARE (Pvt) Ltd runs on a desktop computer environment. The functionality of this software application is based on the hardware in the desktop computer environment such as RAM. Accordingly, this company basically needs a desktop-type computer with a level of performance that can run this software application. In addition, you will need a Barcode Reader to read the Barcode and a Pinter to print the Invoice.

Software Interfaces

This software application designed for PAMUNUWILA HARDWARE (Pvt) Ltd runs on a Windows operating system. This software application also requires java 1.8.0 and Jaspersoft 6.17.0 to run.

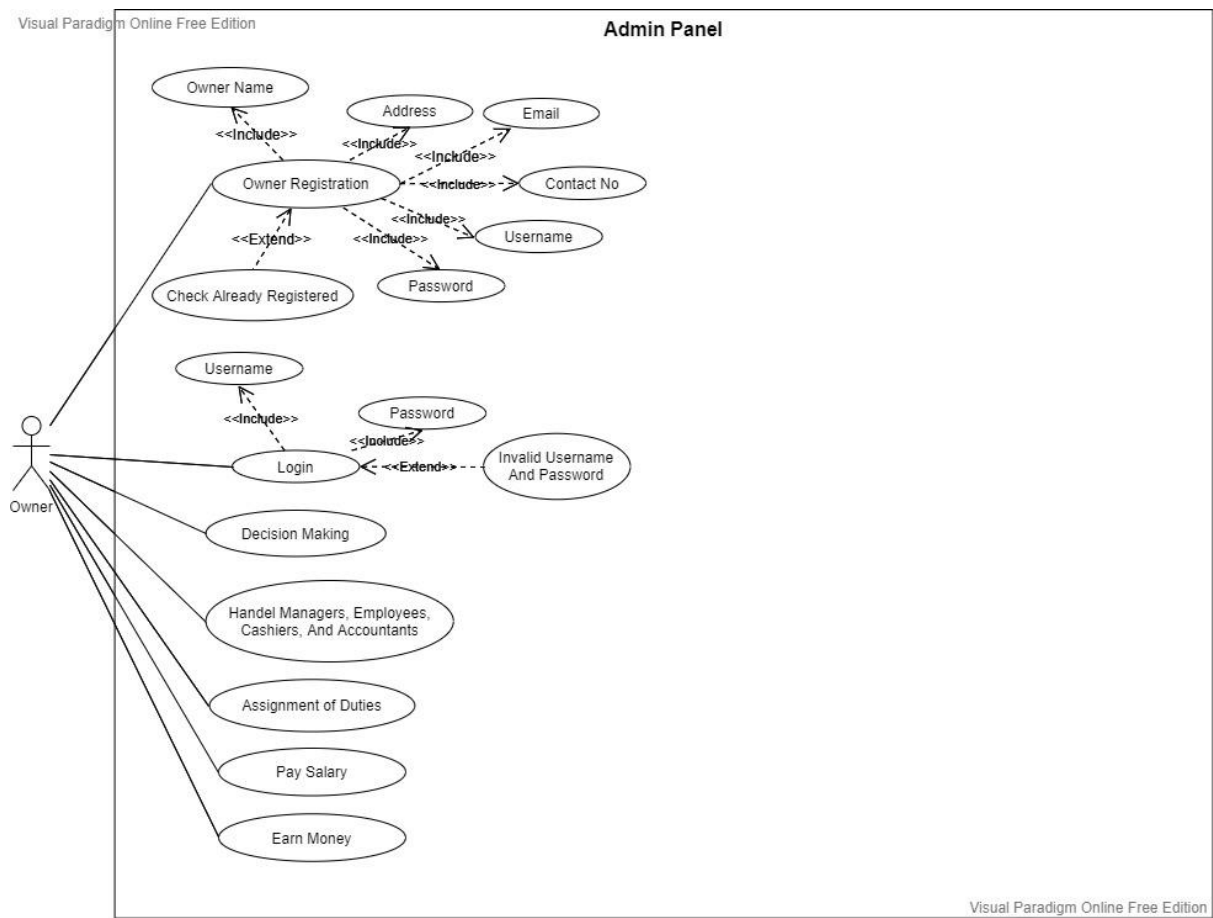
Functional Requirements

- *Owner, Manager, Supplier, Customers, Transporters, Employees, Cashiers, Accountants Registration.*
- *Insert Owner, Manager, Supplier, Customers, Transporters, Employees, Cashiers, Accountants Details.*
- *Update Owner, Manager, Supplier, Customers, Transporters, Employees, Cashiers, Accountants Details.*
- *Delete Owner, Manager, Supplier, Customers, Transporters, Employees, Cashiers, Accountants Details.*
- *Owner, Manager, Cashiers, Accountants Login and Logout*
- *Product Details Insert, Update, Delete, Search.*
- *Store Materials (Construction Materials)*
- *Return Materials (Construction Materials)*
- *Generate and Print Reports*
- *Generate and Print Invoices*
- *Backup and Restore Data*

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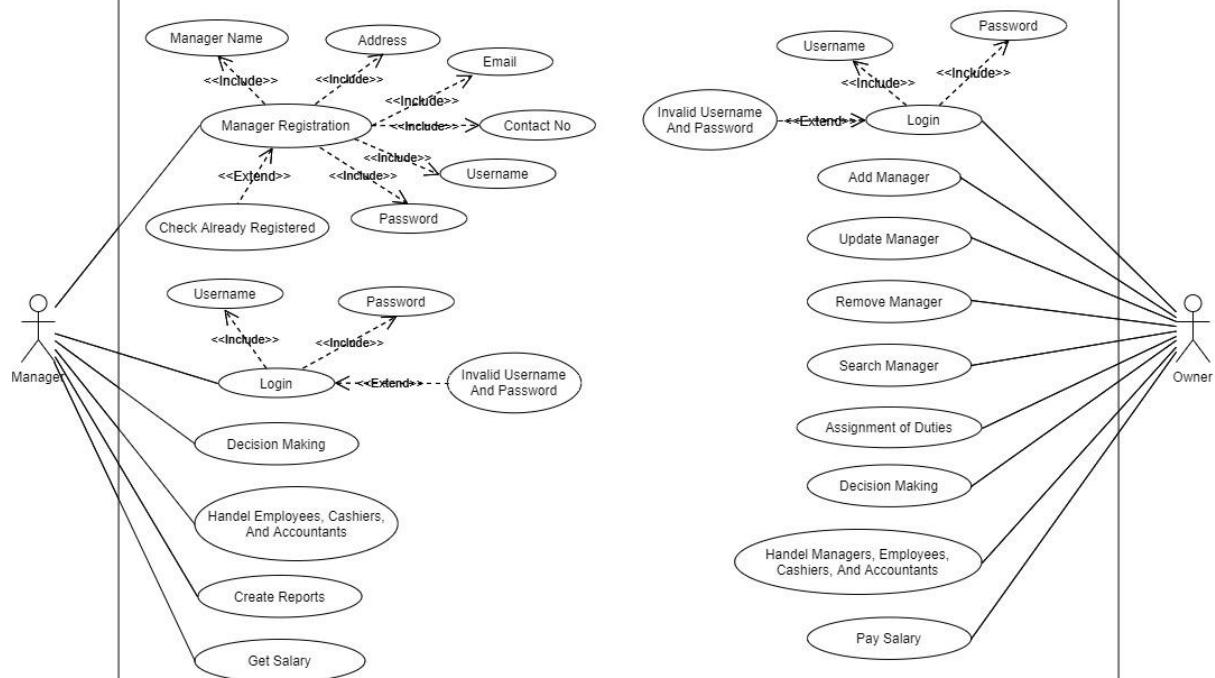
Behaviour Requirements

Use Case View



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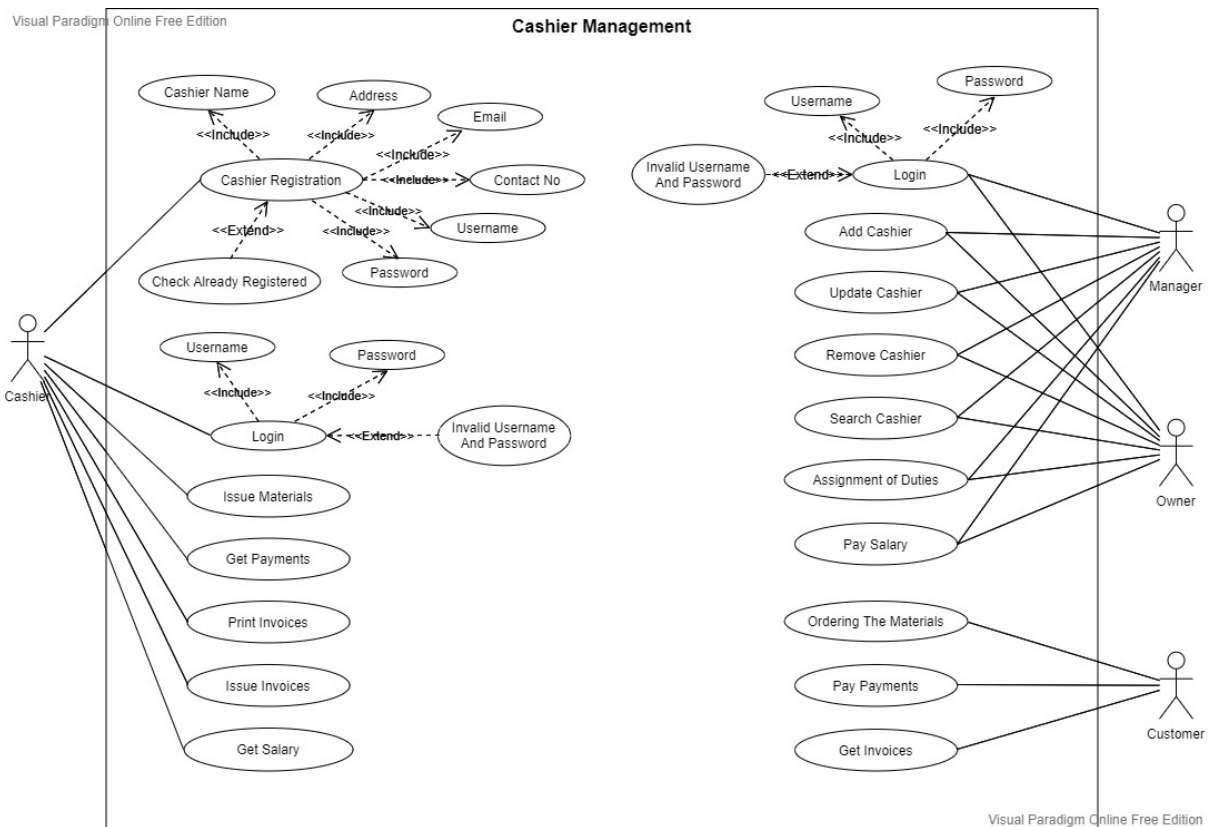
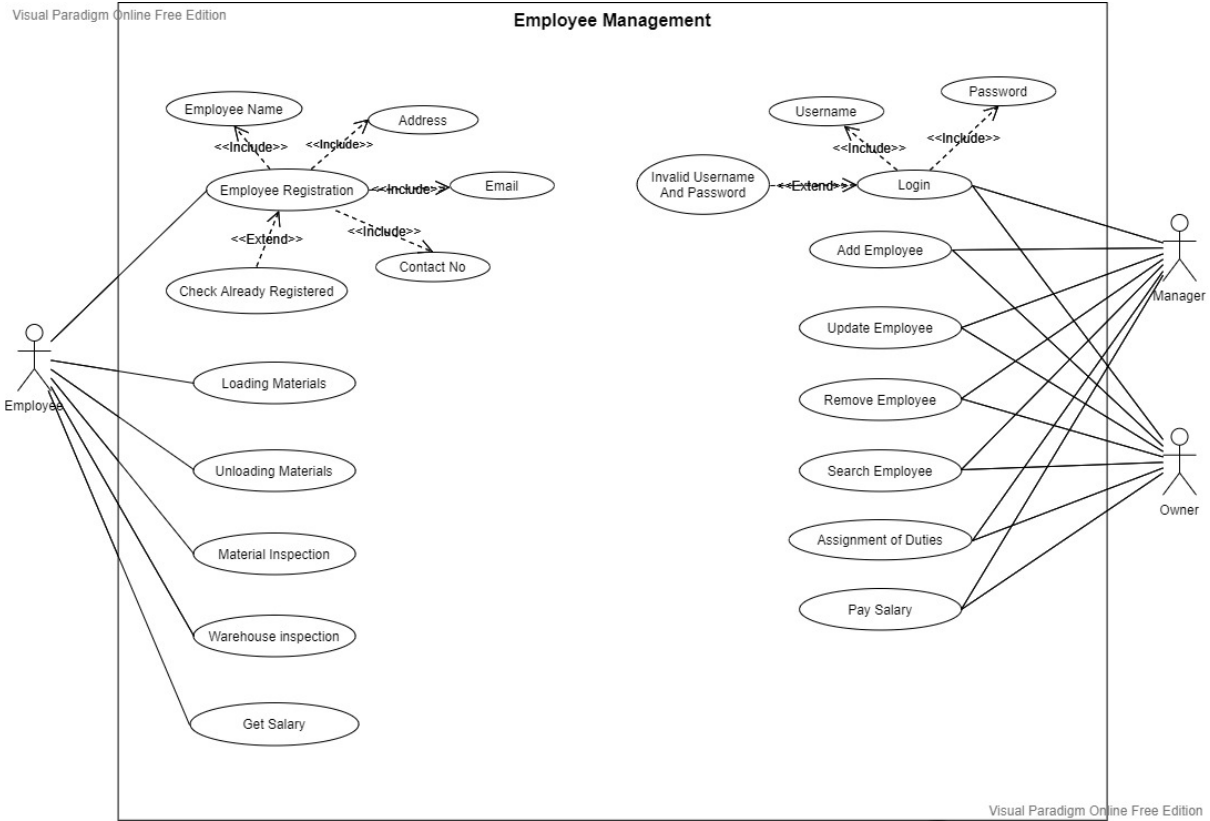
Manager Management



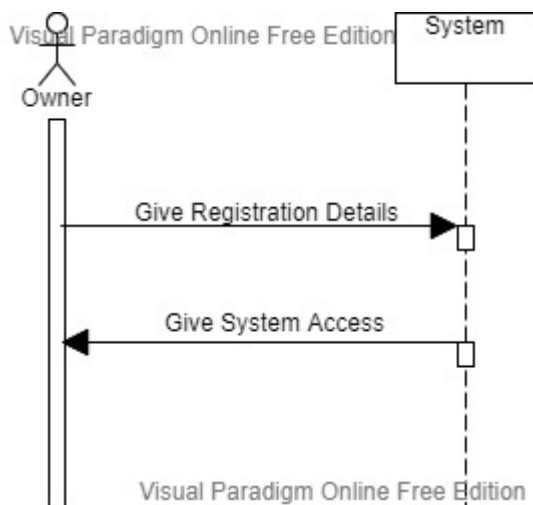
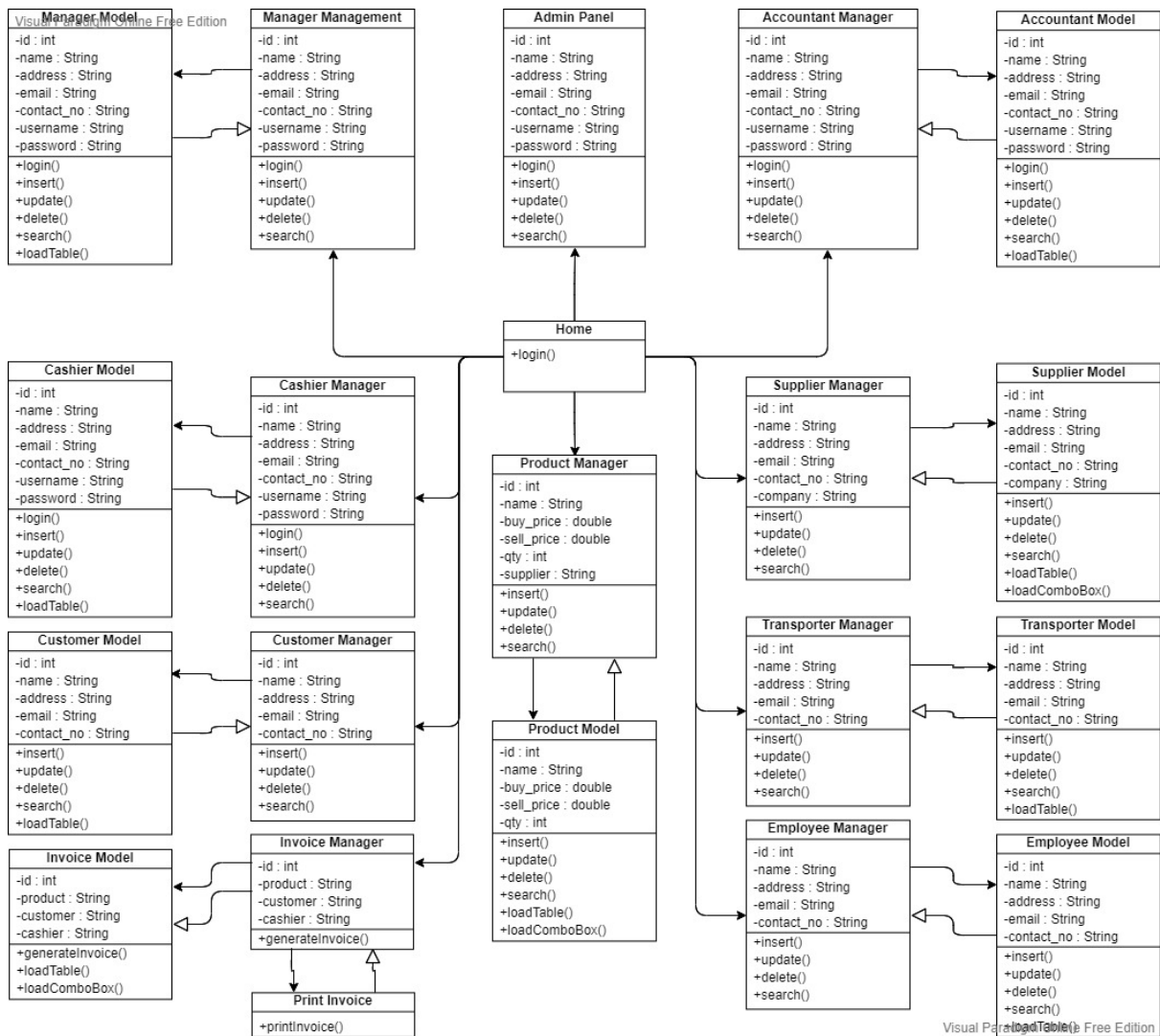
Supplier Management



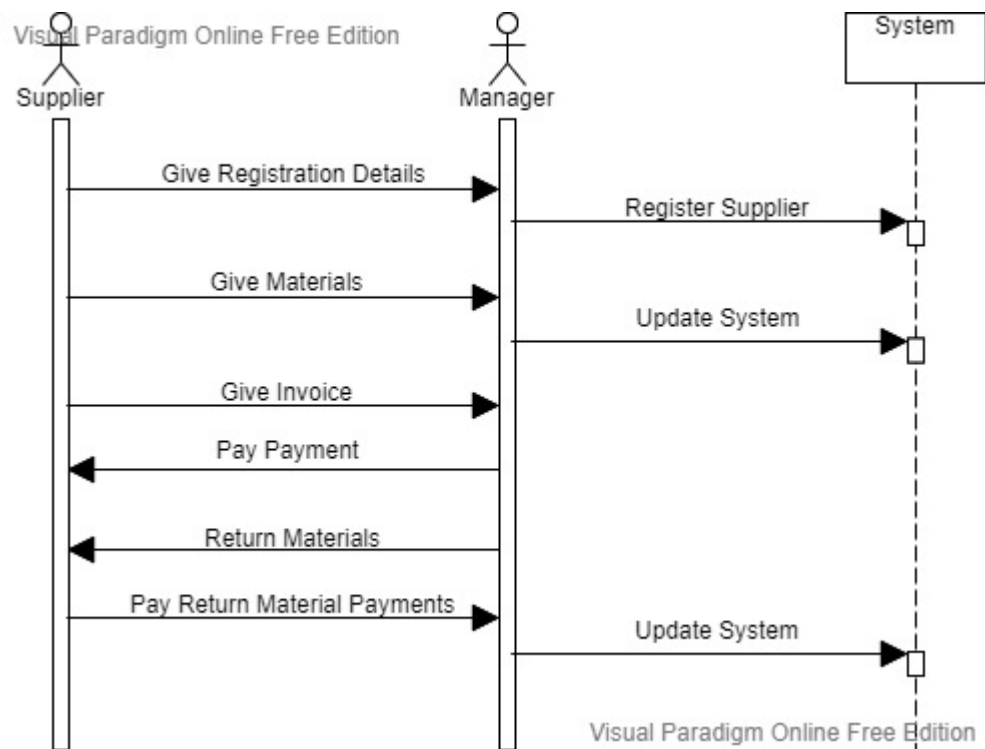
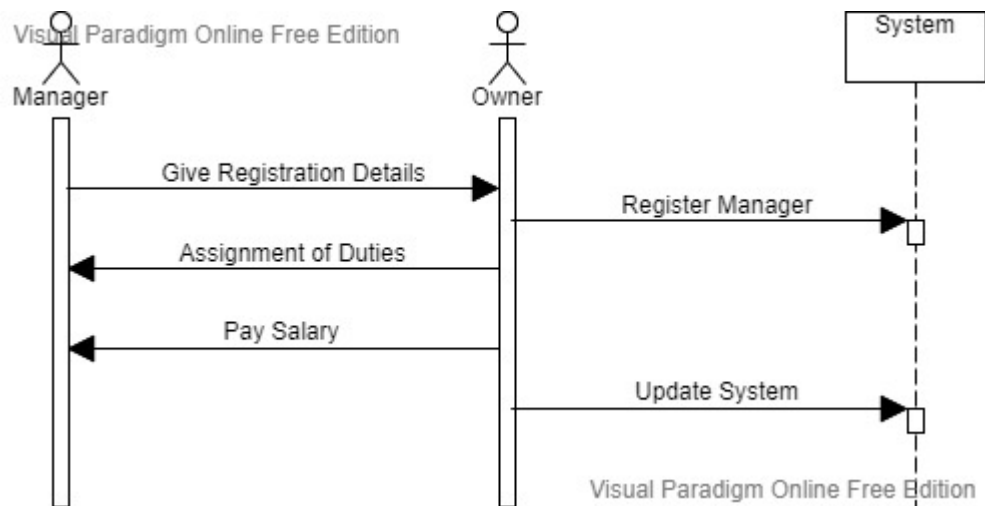
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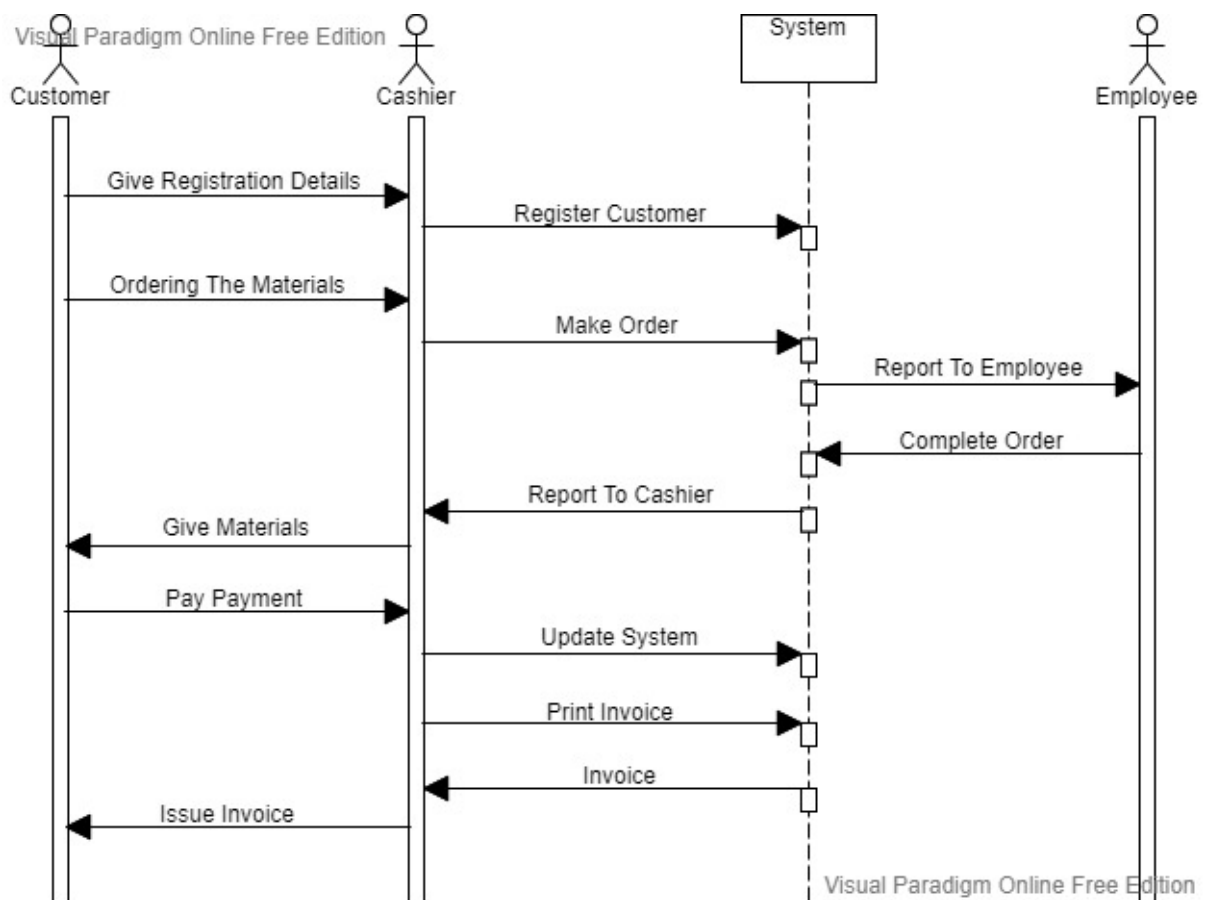
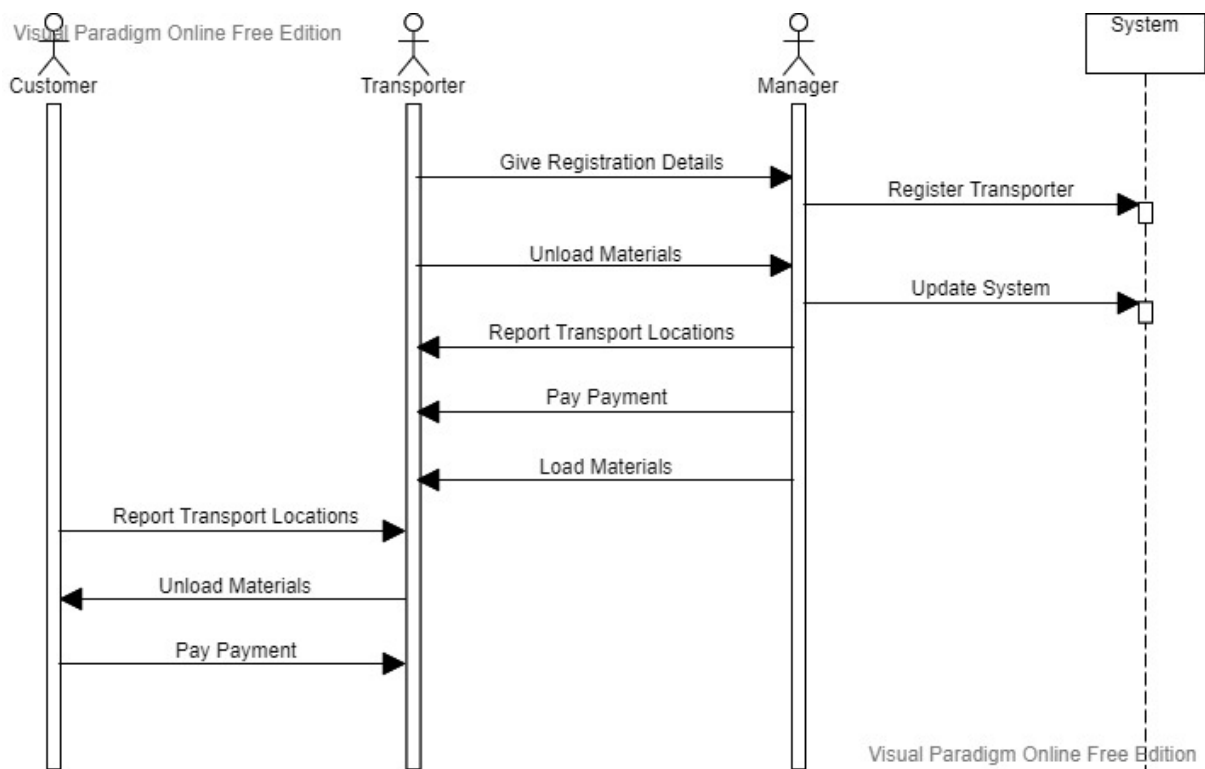
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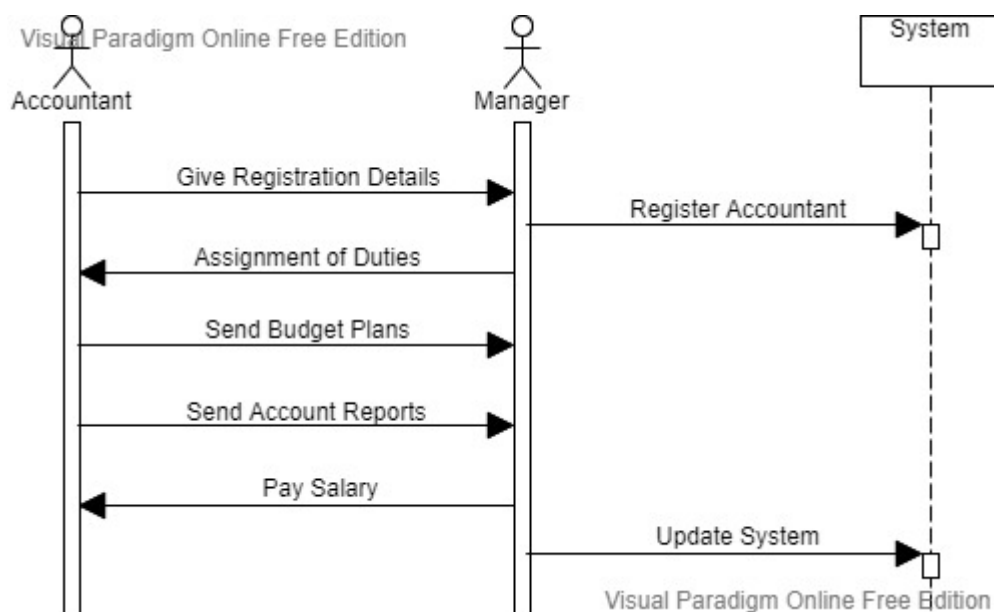
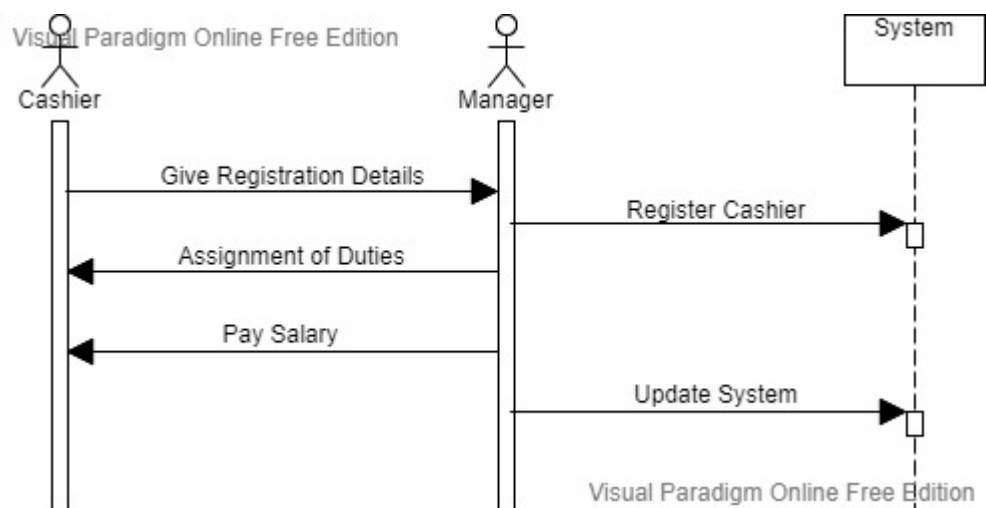
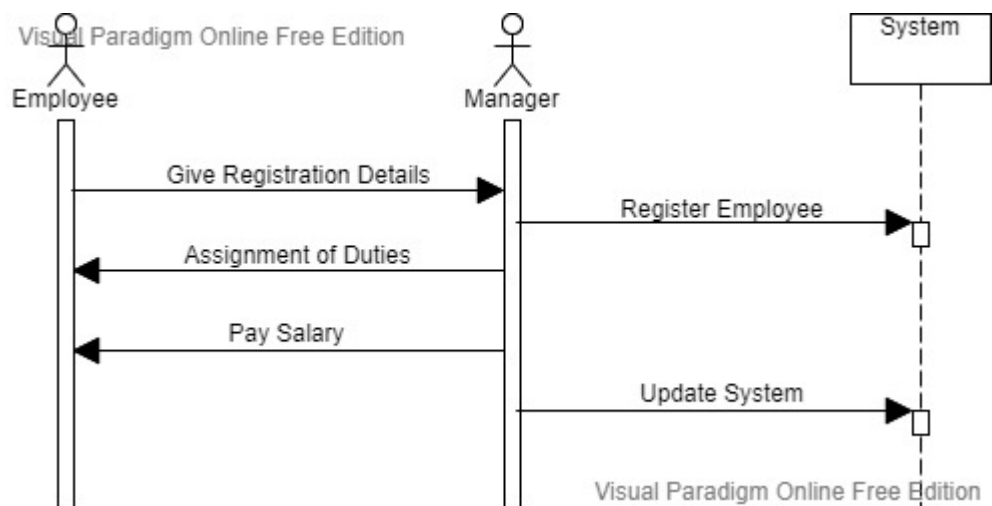
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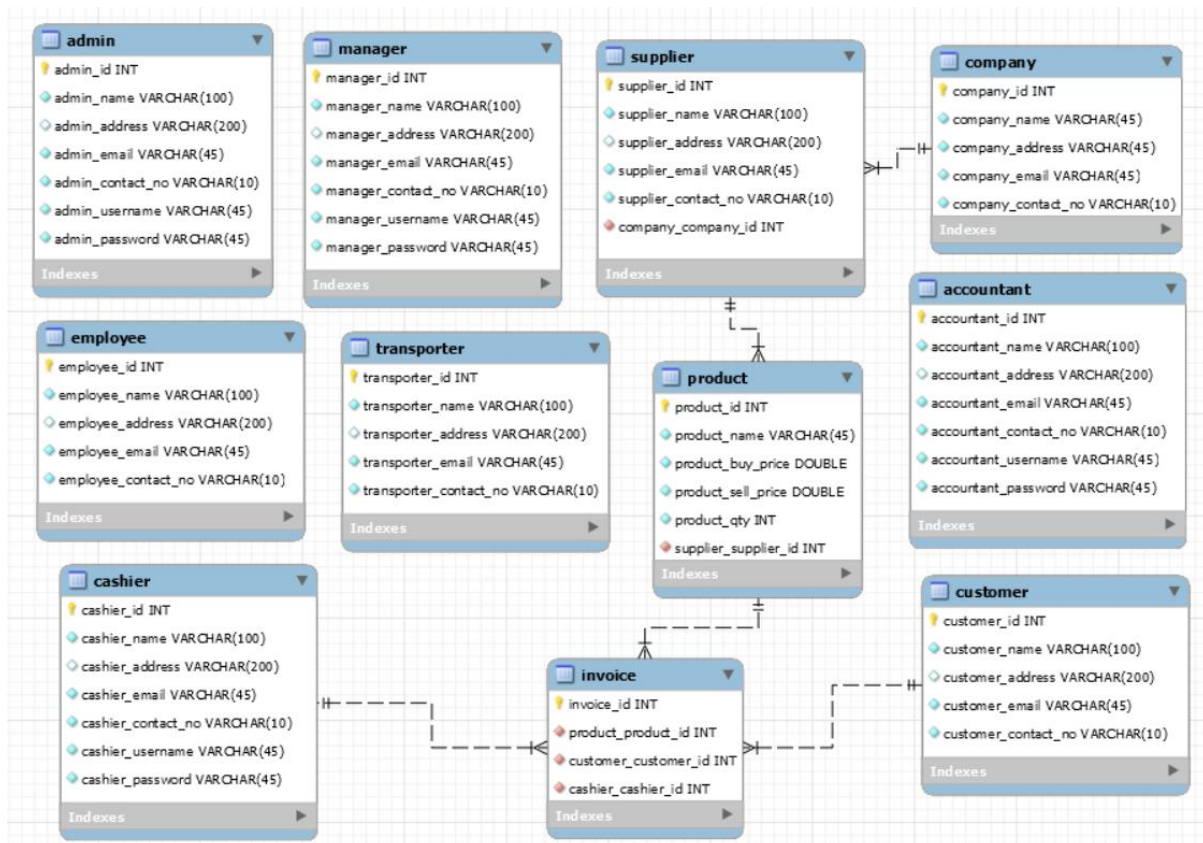
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Log In

Username

Password

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File Edit Menus

Supplier Manager

Supplier Details

Supplier No

Supplier Name

Address

Email

Contact No

Company Name

Register

Update

Delete

Supplier Table

Search

Supplier No	Supplier Name	Address	Email	Contact No	Company Name
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File Edit Menus

Transporter Manager

Transporter Details

Transporter No

Transporter Name

Address

Email

Contact No

Register

Update

Delete

Transporter Table

Search

Transporter No	Transporter Name	Address	Email	Contact No
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File Edit Menus

Customer Manager

Customer Details

Customer No

Customer Name

Address

Email

Contact No

Register

Update

Delete

Customer Table

Search

Customer No	Customer Name	Address	Email	Contact No
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File Edit Menus

Employee Manager

Employee Details

Employee No

Employee Name

Address

Email

Contact No

Register

Update

Delete

Employee Table

Search

Employee No	Employee Name	Address	Email	Contact No
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File Edit Menus

Cashier Manager

Cashier Details

Cashier No

Cashier Name

Address

Email

Contact No

Username

Password

Register

Update

Delete

Cashier Table

Search

Cashier No	Cashier Name	Address	Email	Contact No	Username

File Edit Menus

Accountant Manager

Accountant Details

Accountant No

Accountant Name

Address

Email

Contact No

Username

Password

Register

Update

Delete

Accountant Table

Search

Accountant No	Accountant Name	Address	Email	Contact No	Username

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Other Non-functional Requirements

Performance Requirements

Performance requirements explain allowable reaction times for system functionality. Although the system is developed matching for the least system performances, the performance of the system will heavily rely on the performance of the software and hardware components of the installing computer. When considering the timing of the system the load time for user interface screens shall take no longer than two seconds. It makes fast access to system functions. The log-in data shall be verified within three seconds causes' productivity of the system. Going back to query results within three seconds makes the search function more accurate.

Safety and Security Requirements

Safety Requirements

Designed for PAMUNUWILA HARDWARE (Pvt) Ltd, Hardware Shop Management System has several user stages, with a username and password required for a username and password to secure the main entrance and access to most subsystems. It presents different ideas and accessible functions at user stages across the system. Backup maintenance ensures the security of the system database. The system can be reinstalled in any emergency.

Security Requirements

The owners, managers, cashiers, and accountants can access the Hardware Shop management system. The owners, managers, cashiers, and accountants also have access to the subsystem. The owner has the greatest privilege for all subsystems. Only the owners have access to the Admin Panel. A username login screen that requires a username and password secures access to the main access and many subsystems.

Appendix A - Group Log

- Zoom Meetings
- Research on Internet

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