Store Management System Documentation

1. Introduction

The **Store Management System** is a software application designed to help store owners manage their business. It helps in managing products, sales, customers, suppliers, stock, and payments.

2. Features

2.1 Product Management

- Add, update, and delete products.
- Store product details like name, price, and quantity.

2.2 Customer Management

- Store customer details like name, phone number, and address.
- Track customer purchases.

2.3 Supplier Management

- Add supplier details like name, contact, and items supplied.
- Track supply history.

2.4 Stock Management

- Check available stock.
- Get alerts when stock is low.

2.5 Sales Management

- Record sales transactions.
- Generate bills and receipts.

2.6 Payment Management

- Track customer payments.
- Manage supplier payments.

2.7 Reports

- Generate sales reports.
- View profit and loss reports.

3. System Requirements

3.1 Software Requirements

- Windows 10 or later
- Microsoft SQL Server
- Visual Studio (C# .NET Framework/.NET Core)

3.2 Hardware Requirements

- Minimum 4GB RAM
- 500GB HDD
- Intel Core i3 or higher processor

4. Database Schema (SQL Server)

4.1 Tables

Products Table
```
CREATE TABLE Products (
    ProductID INT PRIMARY KEY IDENTITY(1,1),
    Name VARCHAR(100),
    Price DECIMAL(10,2),
    Quantity INT
);
```

Customers Table
```
CREATE TABLE Customers (
    CustomerID INT PRIMARY KEY IDENTITY(1,1),
    Name VARCHAR(100),
    Phone VARCHAR(15),
    Address TEXT
);
```

Suppliers Table
```
CREATE TABLE Suppliers (
    SupplierID INT PRIMARY KEY IDENTITY(1,1),
    Name VARCHAR(100),
    Contact VARCHAR(50),
    ItemsSupplied TEXT
);
```

Sales Table

```
CREATE TABLE Sales (
    SaleID INT PRIMARY KEY IDENTITY(1,1),
    CustomerID INT FOREIGN KEY REFERENCES Customers(CustomerID),
    SaleDate DATE,
    TotalAmount DECIMAL(10,2)
);
```

Payments Table

```
CREATE TABLE Payments (
    PaymentID INT PRIMARY KEY IDENTITY(1,1),
    CustomerID INT FOREIGN KEY REFERENCES Customers(CustomerID),
    Amount DECIMAL(10,2),
    PaymentDate DATE
);
```

5. Application Modules

5.1 User Interface (C# Windows Forms/WPF)

- Login screen
- Dashboard
- Forms for managing products, sales, customers, and payments

5.2 Business Logic Layer

- Handles validation and calculations
- Ensures accurate stock and payment updates

5.3 Data Access Layer (SQL)

- Manages database connectivity
- CRUD operations for each module

6. Installation & Setup

1. Install SQL Server and create a database.
2. Run the provided SQL script to create tables.
3. Open the C# project in Visual Studio.
4. Configure the database connection in `app.config`.
5. Run the application.

7. Future Enhancements

- Add online ordering functionality.
- Improve reports with graphs and analytics.
- Implement barcode scanning for products.

8. Conclusion

The **Store Management System** is an easy-to-use software for managing a store. It helps store owners keep track of products, customers, sales, and payments, making business operations smooth and efficient.