Tailor Management System Documentation

1. Introduction

The **Tailor Management System** is a software application designed to manage the operations of a tailoring business. It provides functionalities for customer management, order tracking, measurement storage, inventory management, and financial record-keeping.

2. Features

2.1 Client Management

- Add, update, and delete client details.
- Store and retrieve client measurements.

2.2 Supplier Management

- Manage supplier details.
- Track materials supplied.

2.3 Clothes Management

- Store information on available clothing materials.
- Manage stock levels and reorders.

2.4 Services Management

- Define tailoring services offered.
- Assign pricing for services.

2.5 Booking Management

- Create new tailoring bookings.
- Assign due dates and track order progress.
- Generate invoices and receipts.

2.6 Salary Management

- Manage tailor salary records.
- Track payments and deductions.

2.7 Tailor Management

- Store tailor details.
- Assign tasks and track performance.

2.8 Sign Up & Authentication

- User registration and login functionality.
- Role-based access control.

2.9 Payment Management

- Track payments from clients.
- Generate payment 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

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

Supplier Table
```
CREATE TABLE Supplier (
    SupplierID INT PRIMARY KEY IDENTITY(1,1),
```

```
    Name VARCHAR(100),
    Contact VARCHAR(50),
    Address TEXT
);
```

Clothes Table

```
CREATE TABLE Clothes (
    ItemID INT PRIMARY KEY IDENTITY(1,1),
    ItemName VARCHAR(100),
    Quantity INT,
    PricePerUnit DECIMAL(10,2)
);
```

Services Table

```
CREATE TABLE Services (
    ServiceID INT PRIMARY KEY IDENTITY(1,1),
    ServiceName VARCHAR(100),
    Price DECIMAL(10,2)
);
```

Booking Table

```
CREATE TABLE Booking (
    BookingID INT PRIMARY KEY IDENTITY(1,1),
    ClientID INT FOREIGN KEY REFERENCES Client(ClientID),
    BookingDate DATE,
    DueDate DATE,
    TotalAmount DECIMAL(10,2),
    Status VARCHAR(50)
);
```

Salary Table

```
CREATE TABLE Salary (
    SalaryID INT PRIMARY KEY IDENTITY(1,1),
    TailorID INT FOREIGN KEY REFERENCES Tailor(TailorID),
    Amount DECIMAL(10,2),
    PaymentDate DATE
);
```

Tailor Table

```
CREATE TABLE Tailor (
    TailorID INT PRIMARY KEY IDENTITY(1,1),
    Name VARCHAR(100),
    Phone VARCHAR(15),
```

```
    Email VARCHAR(100)
);
```

SignUp Table

```
CREATE TABLE SignUp (
    UserID INT PRIMARY KEY IDENTITY(1,1),
    Username VARCHAR(100),
    PasswordHash VARCHAR(255),
    Role VARCHAR(50)
);
```

Payment Table

```
CREATE TABLE Payment (
    PaymentID INT PRIMARY KEY IDENTITY(1,1),
    ClientID INT FOREIGN KEY REFERENCES Client(ClientID),
    Amount DECIMAL(10,2),
    PaymentDate DATE
);
```

5. Application Modules

5.1 User Interface (C# Windows Forms/WPF)

- Login screen
- Dashboard
- Forms for managing clients, bookings, inventory, and payments

5.2 Business Logic Layer

- Handles validation and business rules
- Ensures accurate inventory 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. Execute the provided SQL script.
3. Open the C# project in Visual Studio.
4. Configure database connection in `app.config`.

5. Run the application.

7. Future Enhancements

- Add SMS/email notifications for booking updates.
- Implement an online portal for clients.
- Enhance reporting with data analytics.

8. Conclusion

The Tailor Management System provides an efficient way to manage tailoring business operations. With an intuitive interface and robust database support, it helps improve productivity and customer service.