Tailor Management System - C# and SQL Server

Introduction

A Tailor Management System is a software application designed to manage the operations of a tailoring business. This system provides functionalities for handling suppliers, clothes, tailors, salaries, clients, services, bookings, payments, and system users efficiently. Built using **C#** for the frontend and **SQL Server** as the database, the system ensures data integrity and smooth workflow management.

Database Structure

The system consists of several tables that store the required information.

1. Suppliers Table

Stores information about suppliers providing fabric and materials.

```
create table Suppliers(
SupplierID int primary key,
SupplierName varchar(200),
Phone int,
Email varchar(200),
Addresss varchar(200)
);
```

2. Clothes Table

Tracks clothes available in the tailor shop.

```
create table Clothes(
ClothesID int primary key,
SupplierID int,
SupplierName varchar(200),
ClotheName varchar(200),
Color varchar(200),
Size varchar(200),
Style varchar(200),
constraint Fk_Supplier foreign key(SupplierID) references Suppliers(SupplierID)
);
```

3. Tailors Table

Manages tailor employees and their details.

```
create table Tailors(
TailorID int primary key,
TailorName varchar(200),
Phone int,
Rol varchar(200),
Shiftt varchar(200),
HireDate varchar(200),
MonthlySalary varchar(200)
);
```

4. Salary Table

Handles salaries and bonuses for tailors.

```
create table Salary (
SalaryID int primary key,
TailorID int,
TailorName varchar(200),
MonthlySalary varchar(200),
Bonus float,
NetSalary varchar(200),
SalaryDate varchar(200),
constraint fk_salary foreign key(TailorID) references Tailors(TailorID)
);
```

5. Clients Table

Stores customer measurements and contact details.

```
create table Clients(
ClientID int primary key,
ClientName varchar(200),
Phone int,
ChestSize varchar(200),
Shoulder varchar(200),
Neck varchar(200),
Legs varchar(200),
Arms varchar(200),
Bally varchar(200)
);
```

6. Services Table

Defines services offered by the tailoring business.

```
create table Servicess (
ServiceID int primary key,
ServiceName varchar(200),
Price varchar(200),
Duration varchar(230),
ServiceRegistrations varchar(200)
);
```

7. Booking Table

Manages customer bookings for tailoring services.

```
create table Booking(
BookingID int primary key,
ClientID int,
ClientName varchar(200),
TailorID int,
TailorName varchar(200),
ServiceID int,
ServiceName varchar(200),
Price int,
Quantity int,
Total int,
OrderDate varchar(200),
TakingDate varchar(200),
constraint fk_Client foreign key(ClientID) references Clients(ClientID),
constraint fk_Tailor foreign key(TailorID) references Tailors(TailorID),
constraint fk_Services foreign key(ServiceID) references Servicess(ServiceID)
);
```

8. Payments Table

Records payments received for tailoring services.

```
create table Payments(
PaymentID int primary key,
BookingID int,
ClientName varchar(200),
ServiceName varchar(200),
Total int,
Discount int,
Subtotal varchar(200),
PaymentMethod varchar(200),
PaymentDate varchar(200),
constraint fk_Payment foreign key (BookingID) references Booking(BookingID)
);
```

9. System Users Table

Maintains user accounts for the system.

```
create table SystemUsers(
UserID int primary key,
Fullname varchar(200),
Phone int,
Gender varchar(200),
Username varchar(200),
Passwordd varchar(200),
Rol varchar(200),
createAt varchar(200)
);
```

System Usage

The Tailor Management System is used to streamline and automate tailor shop operations. Below is an explanation of its functionalities:

1. **Supplier Management:**
    - Admin adds, updates, and deletes supplier information.
    - Links suppliers to clothes inventory.
2. **Clothes Management:**
    - Tailor or admin adds clothes received from suppliers.
    - Track different styles, colors, and sizes of clothes.
3. **Tailor Employee Management:**
    - Admin registers new tailors and assigns shifts.
    - Salary calculations and bonus tracking.
4. **Client Management:**
    - Stores customer details including body measurements.
    - Helps in designing custom clothes based on size.
5. **Service Management:**
    - Defines different tailoring services like stitching, alterations, etc.
    - Includes pricing and duration for each service.
6. **Booking System:**
    - Clients book tailoring services.

- Assigns a tailor to complete the service.
- Calculates total costs based on price and quantity.

7. **Payments Handling:**
    - Accepts payments via different methods (cash, card, etc.).
    - Tracks discounts and calculates the final payable amount.
8. **User Management:**
    - Admin creates accounts for system users.
    - Role-based access control (e.g., tailor, admin, cashier).

Conclusion

The **Tailor Management System** is designed to help tailor shops efficiently manage their operations, including supplier handling, clothing inventory, client bookings, payment tracking, and employee salary management. With **C#** as the frontend and **SQL Server** as the backend, it ensures **data security, accuracy, and ease of use.** This system reduces manual work and improves efficiency, making tailor shops more productive and organized.

The System Login Username Password

Username : Daahir
Password : 1111 this is as Admin

Username : sadaam
Password : 6666 this is as User