Planned Features:

User Roles:

Administrator per department (Manages only their assigned department).

Manager role (Has access to all departments).

Core Functionalities:

Car Inventory Management (Add, update, delete car listings).

Sales & Purchase Records (Track transactions).

User Authentication (Role-based access control).

Technology Stack:

C# (WinForms/WPF) for the user interface.

SQL Database for storing car listings, transactions, and user roles.

The SQL database schema for the Car Trading Unlimited includes tables for users, car listings, and transactions, with role-based access control.

User Authentication (Login System)

Admins manage only their department.

Managers have full access.

Car Management (CRUD Operations)

Add, update, delete, and view car listings.

Transaction Handling

Record car sales and purchases.

• Managers see all cars.

• Admins see only cars added by their department.

Car management features (adding, updating, and deleting listings).

The car management features include

• Admins & Managers can add cars.

• Admins & Managers can delete cars.

Transaction processing (recording sales). Transaction processing feature includes

• Admins & Managers can record sales with buyer details.

• Cars are marked as sold after transactions.

The sales reports feature includes

• Managers & Admins can view transaction history (car details, buyer, price, and processor).

• The report is fetched from the database dynamically.