

Data Flow Chart - Dealership Management System

1. User Types & Dashboards

There are **three main user types**, each with its own set of permissions and dashboards.

User Types:

1. Admin

- Full access to all dealerships and data.
- Can manage all users, dealerships, and their configurations.

2. Manager

- Limited to the specific dealership they are assigned to.
- Can view orders, inventory, and manage data for their dealership.

3. Salesperson

- Restricted to placing orders and viewing data specific to their assigned dealership.
- Cannot edit or manage other users or dealership data.

Dashboards:

Each user type has a **unique dashboard**:

- **Admin Dashboard:** View and manage all dealerships, users, orders, and other administrative tasks.
- **Manager Dashboard:** View and manage only their specific dealership's operations.
- **Salesperson Dashboard:** View and place orders, view inventory, and interact only with their assigned dealership.

2. Software Menus for Each User Type

Admin Dashboard Menus:

- **Dealership Management:**
 - Add, Edit, or Delete Dealerships
 - View All Dealerships
 - Dealership Data (Orders, Inventory, Sales)
- **User Management:**
 - Add, Edit, Delete Users (Managers, Salespeople)
 - Assign Users to Dealerships
 - View User Activity
- **Order Management:**
 - View All Orders
 - Edit, Cancel, or Track Orders
- **Inventory Management:**
 - View and Manage All Inventory Items
 - Add/Remove Items
- **Reporting:**
 - Download Reports (Orders, Sales, Inventory)
 - Generate Financial Reports
- **Settings:**
 - Update System Settings
 - Manage Integration with Google Sheets

Manager Dashboard Menus:

- **Dealership Overview:**

- View Data for Their Dealership (Orders, Inventory, Production Status)
 - View Sales Performance
- **Order Management:**
 - View and Edit Orders within Their Dealership
 - Order Tracking
 - Place New Orders for Their Dealership
- **Inventory Management:**
 - View and Update Inventory
 - Add/Remove Items for Their Dealership
- **Reports:**
 - Download Reports Related to Their Dealership
 - View Financial Reports Specific to Their Dealership
- **Staff Management:**
 - View and Manage Staff (Only within Their Dealership)

Salesperson Dashboard Menus:

- **Order Management:**
 - Place New Orders for Their Dealership
 - Track Orders (Placed by Themselves)
- **Inventory:**
 - View Inventory Specific to Their Dealership
- **Customer Information:**
 - View Customer Information Associated with Their Orders
 - View Previous Orders

3. Data Flow and Interactions Between Dashboards and Menus:

Step 1: User Login

- **Input:** User logs in using their credentials (Username & Password).
- **Process:** The system authenticates the user based on their **user type** (Admin, Manager, Salesperson).
- **Output:**
 - Admin gets access to the **Admin Dashboard**.
 - Manager gets access to the **Manager Dashboard** for their dealership.
 - Salesperson is directed to their **Salesperson Dashboard**.

Step 2: Dashboard Navigation

- **Admin:**
 - Can access **all menus** (Dealership, User, Order, Inventory Management, Reports).
 - Can perform **full CRUD operations** on all data.
 - **Manager:**
 - Can access **only dealership-specific data** (Orders, Inventory, Sales, Reports for their assigned dealership).
 - **Cannot view** or manage users outside their dealership.
 - **Salesperson:**
 - Can **only place and track orders** for their assigned dealership.
 - Can **view inventory** but cannot modify it.
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Step 3: Data Synchronization

- **Input:** Updates to data (orders, inventory) are made through various dashboards.
 - **Process:** Any changes made in the system are synchronized with the Google Sheet.
 - **Output:** The Google Sheet is updated in real-time, and the system reflects the latest data.
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Step 4: Data Visibility & Restrictions

- **Admin:** Sees **all data** across all dealerships and users.
 - **Manager:** Sees only **data from their assigned dealership**.
 - **Salesperson:** Sees only **orders and inventory** for their dealership.
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Step 5: Reporting and Downloading Data

- **Input:** User requests a report or data export (in Excel format).
 - **Process:** The system generates the report specific to the user's permission level.
 - **Output:** Data is exported in Excel format or displayed on the dashboard.
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Summary of Dashboards and Menus:

User Type	Dashboard	Main Menus
Admin	Full Admin Dashboard	Dealership Management, User Management, Order Management, Inventory Management, Reports, Settings
Manager	Specific Dealership Dashboard	Dealership Overview, Order Management, Inventory Management, Reports, Staff Management
Salesperson	Specific Dealership Dashboard	Order Management, Inventory, Customer Information

This flowchart outlines the **different user types**, their **dashboard menus**, and **access permissions** within the system, ensuring that each user type has the appropriate level of access based on their role in the dealership.