End of Module 3 Product Design
Trailer Yard Management System - MVP Functional Requirements

1. USER AUTHENTICATION & AUTHORIZATION

1.1 Role-Based Access
- As a USER, I can manage trailer assignments and update order statuses but cannot delete records or manage customers/shippers.
- As an ADMIN, I have full access to create, update, and delete all records (customers, shippers, trailers, orders, assignments).

1.2 Login & Session Management
- As a user, I can log in with my credentials to access role-specific features.
- As an authenticated user, I am automatically redirected to a dashboard relevant to my role upon login.

2. TRAILER MANAGEMENT

2.1 View Trailers
- As any user, I can view a list of all trailers in the yard.
- As any user, I can search for a specific trailer by its number.
- As any user, I can update trailer details (e.g., status, location).

2.2 Modify Trailers (ADMIN Only)
- As an ADMIN, I can add a new trailer to the system.
- As an ADMIN, I can delete a trailer from the system.

3. ASSIGNMENT MANAGEMENT

3.1 View Assignments
- As any user, I can view a list of all trailer assignments (employee, trailer, door number, status).
- As any user, I can filter assignments by status (e.g., "Active", "Completed").

3.2 Manage Assignments (USER & ADMIN)
- As a USER or ADMIN, I can create a new assignment (linking an employee to a trailer).
- As a USER or ADMIN, I can update an existing assignment (e.g., change status or reassign trailer).
- As a USER or ADMIN, I can delete an assignment (marking it as inactive).

4. ORDER MANAGEMENT

4.1 View Orders
- As a USER or ADMIN, I can view all orders in the system.
- As a USER or ADMIN, I can search orders by:

   * Order number
   * Trailer number
   * Customer name
   * Shipper name
   * Status (e.g., "Pending", "Loaded", "Shipped")

4.2 Modify Orders (ADMIN Only)
- As an ADMIN, I can create a new order.
- As an ADMIN, I can update order details (e.g., status, customer, shipper).
- As an ADMIN, I can delete an order.

5. CUSTOMER & SHIPPER MANAGEMENT

5.1 View Customers & Shippers
- As any user, I can view a list of all customers.
- As a USER or ADMIN, I can search for a customer by name.
- As any user, I can view a list of all shippers.
- As a USER or ADMIN, I can search for a shipper by name.

5.2 Modify Customers & Shippers (ADMIN Only)
- As an ADMIN, I can add a new customer or shipper.
- As an ADMIN, I can update customer/shipper details (e.g., contact info).
- As an ADMIN, I can delete a customer or shipper.

6. DASHBOARD & REPORTING

6.1 Overview Dashboard
- As an authenticated user, I can see a dashboard showing:
   * Active assignments
   * Available trailers

NM Dock Management System

Dock Management Dashboard

Available Doors	Assigned Doors	Available Trailers	Available Unloaders

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NM Dock Management System

Home

Assignments

Add New

Assignment List

NM Dock Management System

Orders

Add New

Order List

NM Dock Management System

Trailers

Add New

Trailer List

Shippers

Add New

Shipper List

Assignment Order Trailer Shipper Employee Logout

Home

Unloaders

Add New

Unloader List

Assignment Order Trailer Shipper Employee Login

Sign In
Sign In

Dock Management System

Register

Create Account