

P1 Topic and Objectives

Supply Chain Management System

Github Public Repository: <https://github.com/TianruiLi-NEU/DAMG6210-GROUP1-Supply-Chain-Management-System>

Team Members

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Mission Statement

A single source of truth for material movement sits at the heart of this setup. Instead of scattered records, everything flows into one place where oversight becomes clear. Buying from vendors happens here, not through separate channels. Stock checks across storage sites happen continuously, without waiting for updates. Deliveries get followed all the way to their endpoint. Mistakes linked to human input drop because routines shift toward automation. Clarity on what's in stock appears instantly, not hours later. Orders show current status at any moment. Shipments update themselves as they move. Efficiency grows simply by connecting pieces already in play

Mission Objectives

Supplier Management

Besides names, keep track of how suppliers prefer to get paid. Contact info sits alongside their usual ways of connecting. Payment schedules show up right there with company titles. Each detail lives within reach when needed next

Track supplier performance including late deliveries and reported issues

Purchase Order Management

Create and maintain purchase orders

Check what has been bought, seen on its way, or still waiting to arrive

Inventory Tracking

Maintain a product catalog with SKU, product name, and unit cost

Right now, check how much stock is on hand. Spot when amounts run low. Notice items that are nearly gone

Warehouse Management

Track warehouse locations and item storage details

Record inventory movements such as receiving, transferring, and issuing stock

Receiving and Inspection

Record goods received against corresponding purchase orders

Capture information about damaged, missing, or incorrect items

Track Shipments and Deliveries

Create shipment records for outbound deliveries

Check where your package is - maybe it left the warehouse, could be moving between hubs, or already reached you

Reporting

Running tallies of what's sitting in storage come together alongside updates on orders still waiting to arrive. Items expected but running behind schedule show up clearly here too. Purchase requests that haven't been fulfilled yet form another piece of this picture. Each detail fits into a broader view of daily movement and supply flow

Security and Backup

Support user authentication and role-based access control

Keep saving copies of your data often so you do not lose it

Expected Outcome

A fresh start means clearer tracking across departments. Built-in checks reduce mistakes in records over time. One hub holds all key details, smoothing daily tasks. Decisions gain strength when information flows without delays. Structure shapes how teams interact with updates. Reliability comes from consistent setup behind the scenes.