

Inventory Management System (CLI-based)

Concept: Build a command-line inventory management system for a small retail store that manages products using file-based storage.

Core Features:

There are two kinds of users[Roles] in this system -

ADMIN (Who can perform all actions)

READERS (Who can only read)

1. Product CRUD Operations:

- **Create:** Add new products with details (ID, name, category, price, quantity, supplier, etc.)
- **Read:**
 - View all products
 - Search by ID, name, category
 - Filter products (low stock, by price range, by category)
- **Update:** Modify product details, update stock quantity
- **Delete:** Remove products (with confirmation)

2. Additional Features:

- **Stock Management:** Track inventory levels, low stock alerts
- **Transaction Log:** Record all operations with timestamp
- **Reports:** Generate summary reports (total inventory value, category-wise stock, etc.)
- **Data Export:** Export filtered data to CSV
- **Data Import:** Bulk import products from CSV