Data Structure CSE 124 Lab Project Spring 2025

Group: 5

Title: **Product Inventory System**

Main Task:

 • Implement a product inventory management system using **arrays or linked lists** to track product information.

 Additional Tasks:

 • Allow adding/removing products to/from the inventory.

 • Implement search to find products by name.

 • Track product quantity and display low stock alerts.

 • Display a sorted inventory by product name or price.

 • Generate an inventory summary report (total value, low stock items).

CLO Alignment:

✅ **CLO 1**: Implements structured inventory tracking logic.

✅ **CLO 2**: Uses **Array/Linked List** for product storage.

✅ **CLO 3**: Solves inventory management and search problems.

✅ **CLO 4**: Develops a working product inventory system.