

## · **Product and Sale Classes Development**

- **Team Member 1: Product Class- Heritage Adigun**

- Define the Product class to handle details about each product (ID, name, price, stock level).
- Implement methods for adding, updating, and displaying product details.
- Ensure the class can interact with the inventory system effectively.

- **Team Member 2: Sale Class- Ximena Carlos**

- Define the Sale class to manage sales transactions (product sold, quantity, date, total amount).
- Implement methods for recording and displaying sales transactions.
- Ensure the class can track and summarize sales data.

## · **InventoryManager Class and Collections- Udantha Herath**

- **Team Member 3: InventoryManager and Collections**

- Define the InventoryManager class to oversee inventory operations (adding, removing, updating products).
- Implement methods for managing the inventory and interacting with both Product and Sale classes.
- Use a dictionary for mapping product IDs to Product objects for quick lookup and lists for holding multiple Product objects.

## · **GUI Design and Implementation- Brendan Bradfield**

- **Team Member 4: GUI Design and Implementation**

- Design the main window with tabs for Inventory Management, Sales Management, and Reports.
- Create forms for adding, updating, and removing products, and ensure they interact with the InventoryManager.
- Implement a table view for displaying the current inventory and past sales.
- Design the reports section to show inventory levels and sales summaries.