

Generic Inventory Management System

Brady Ash, Ezra Skoog, Jeremy Heng, Josh Fried, Turner Burchard

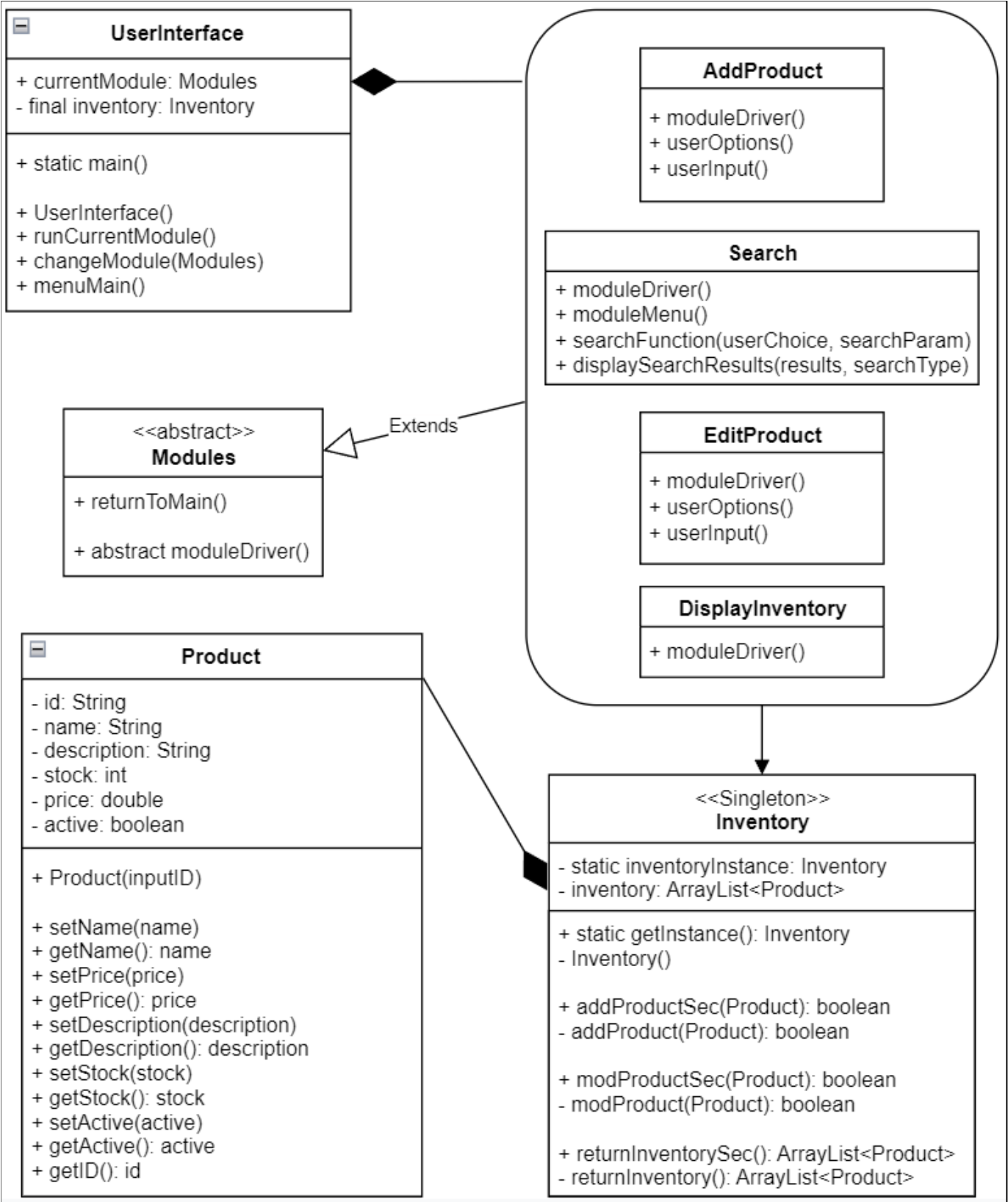
A. User Stories (w/ Corresponding Use Case):

- a. As an employee, I want to add a product to inventory so that its details can be tracked.
 - i. Use Case: adding a product to inventory
- b. As an employee, I want to search for a product (or products) in inventory so that I can view its details
 - i. Use Case: search for a product in inventory by its details
- c. As an employee, I want to edit an inventory product's details because its details have changed.
 - i. Use Case: modify a product in inventory
- d. As an employee, I want to view all products in inventory so that I can perform a physical audit.
 - i. Use Case: view all inventory products' details

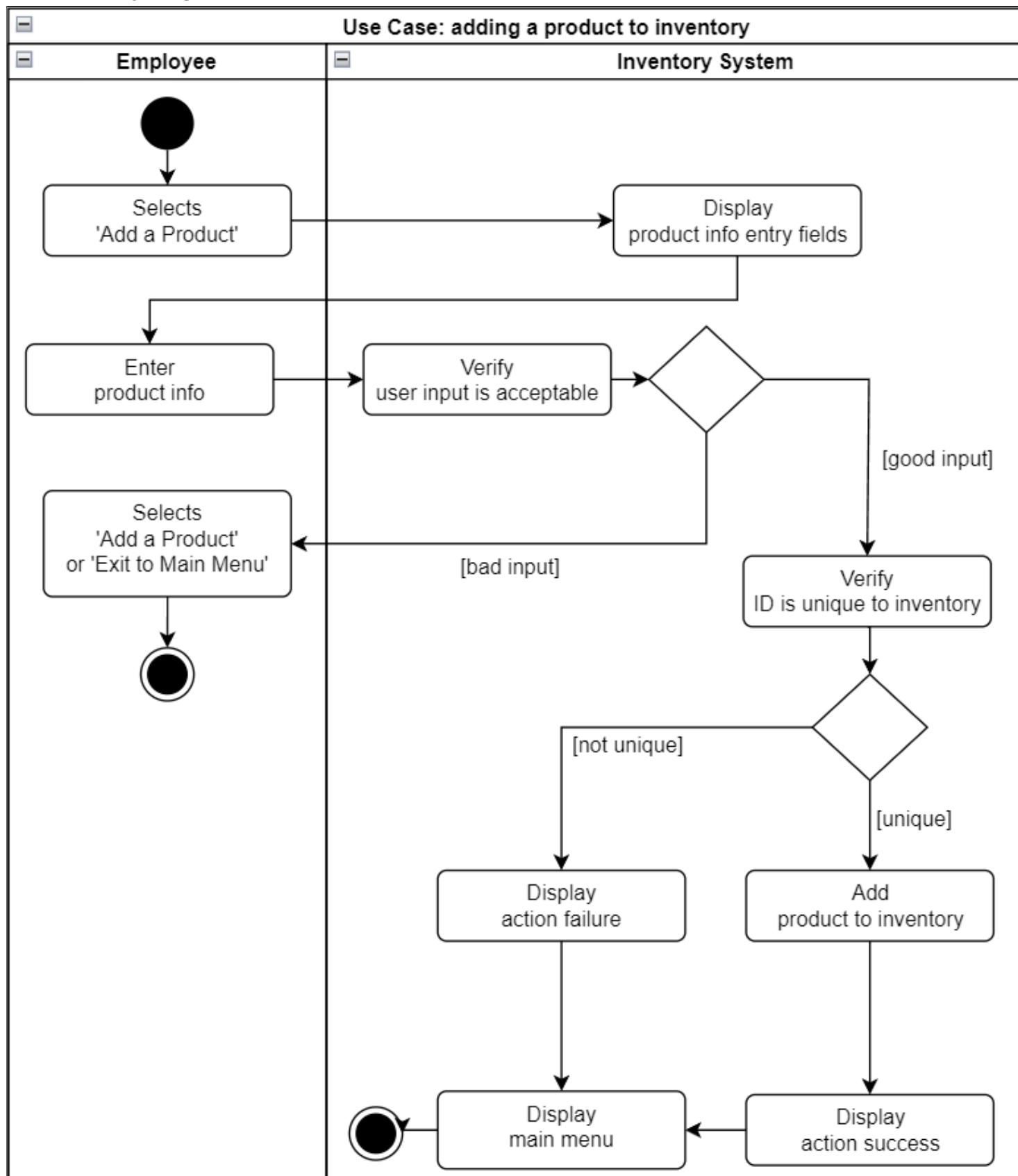
System Requirements:

1. The system shall persistently save inventory product's data.
2. The system shall let users add a product to inventory.
3. The system shall let users modify a product in inventory.
4. The system shall let users display all products' details that are in inventory.
5. The system shall let users search the inventory for a product by ID and by some other info.
6. The system shall enforce that all products in inventory have unique IDs.
7. The system shall be created to follow the OCP.

B. Design Class Diagram:



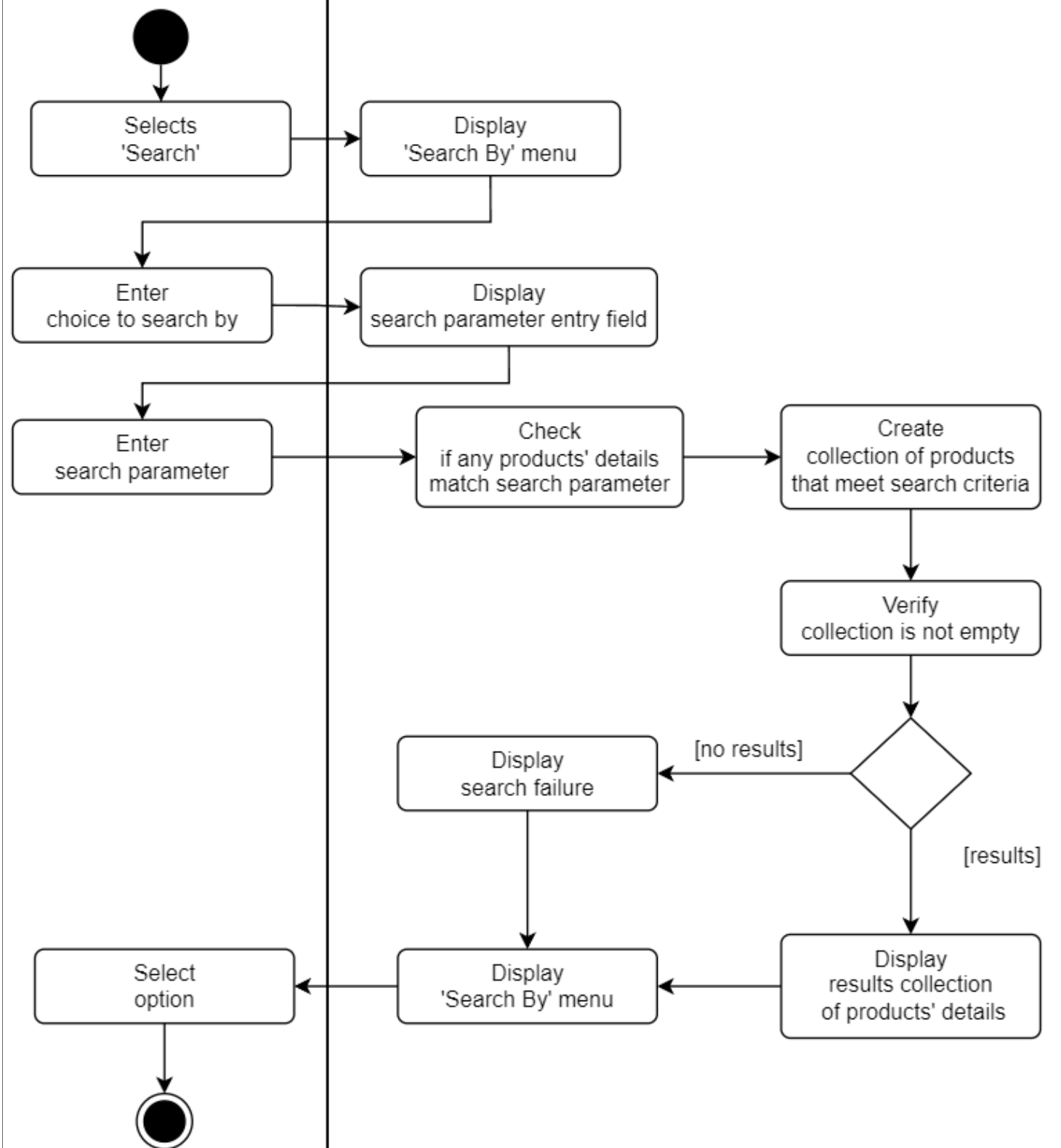
C. Activity Diagrams

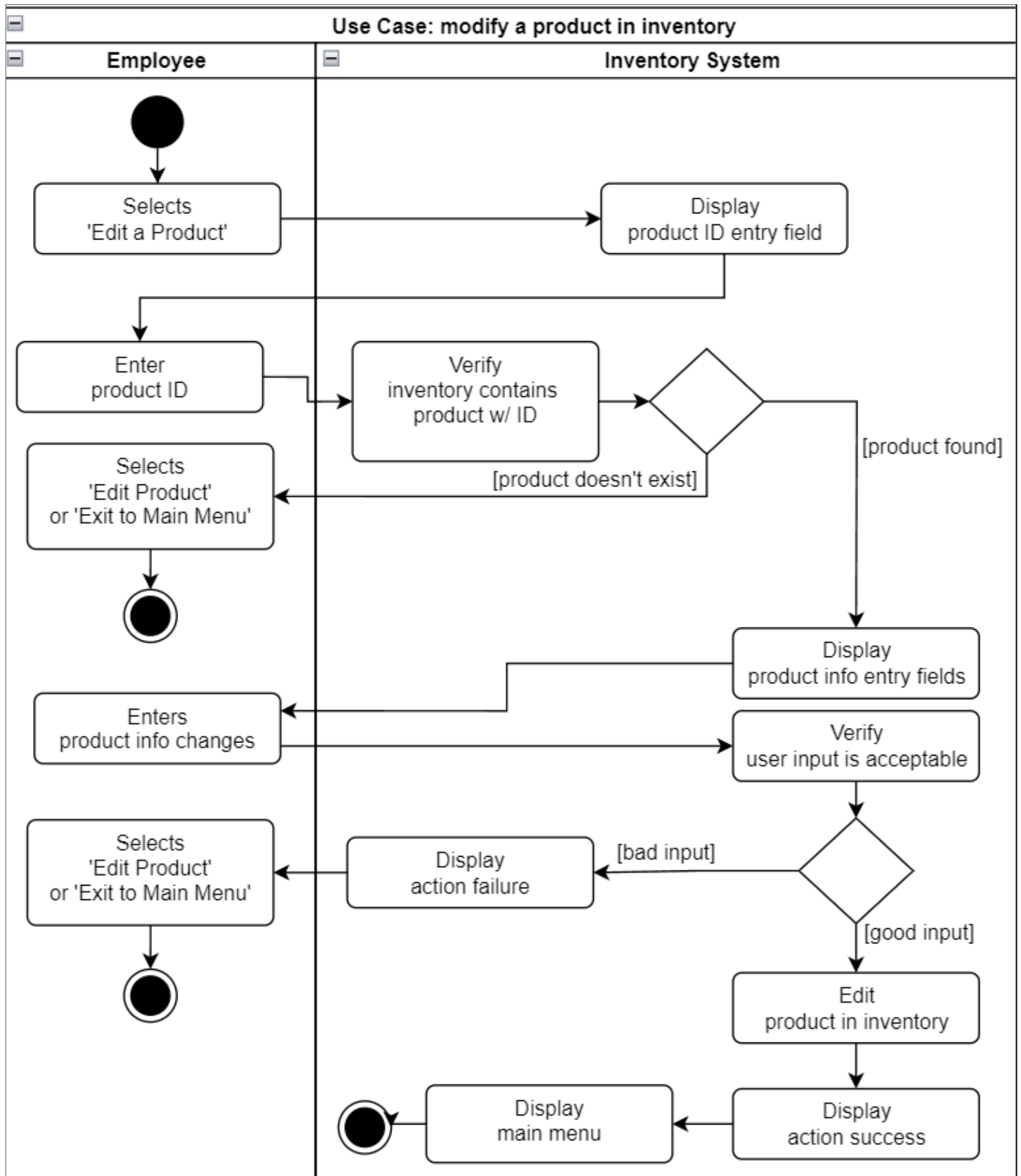


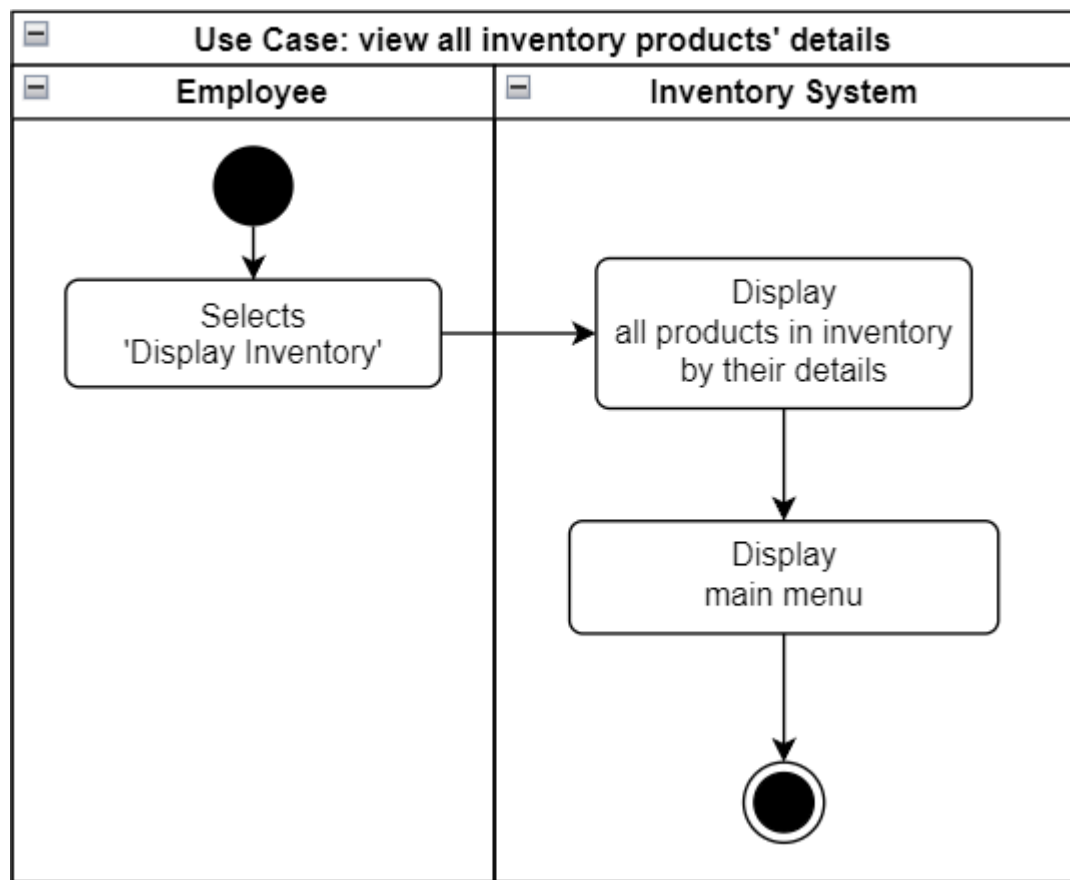
Use Case: search for a product in inventory by its details

Employee

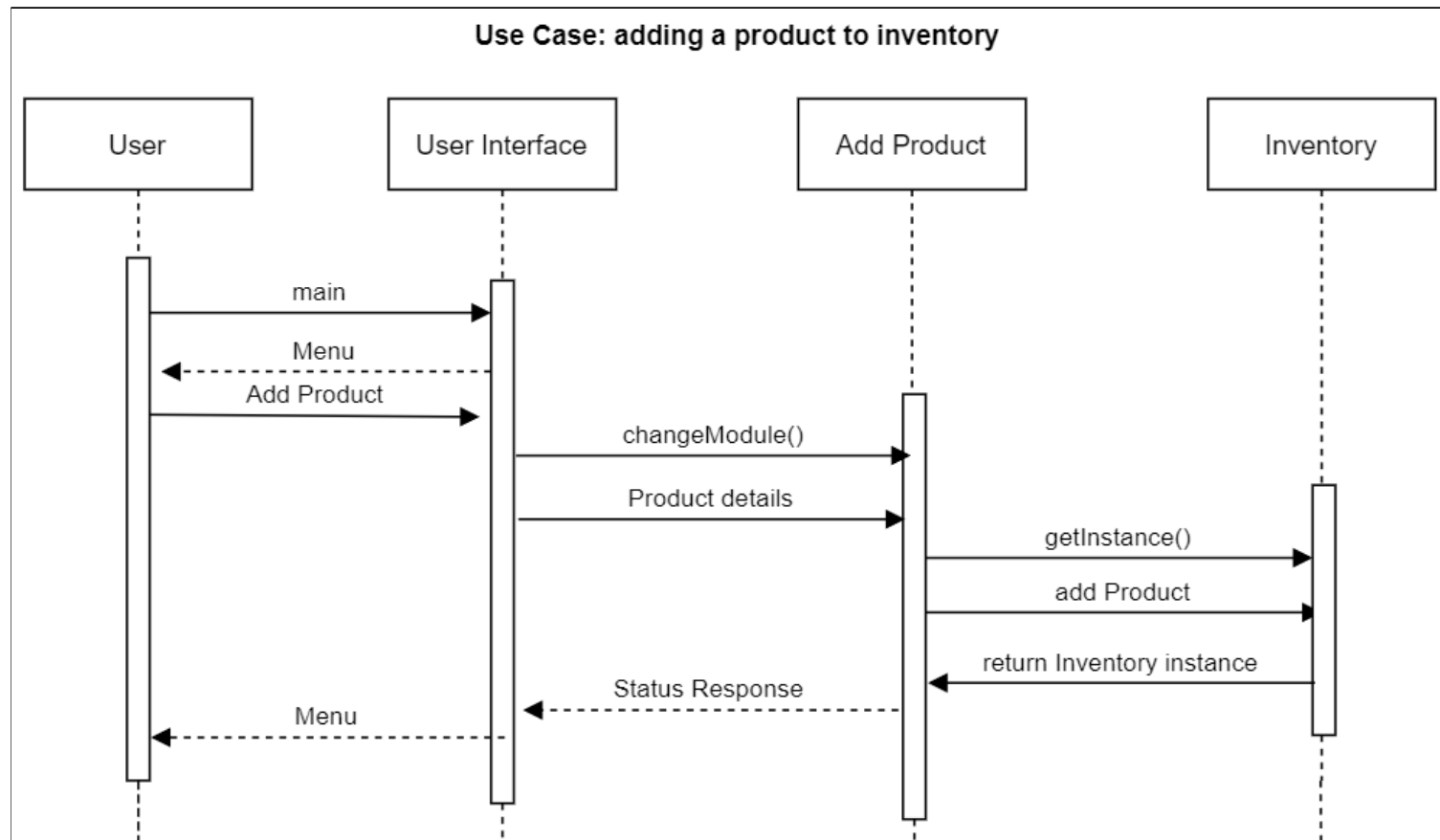
Inventory System



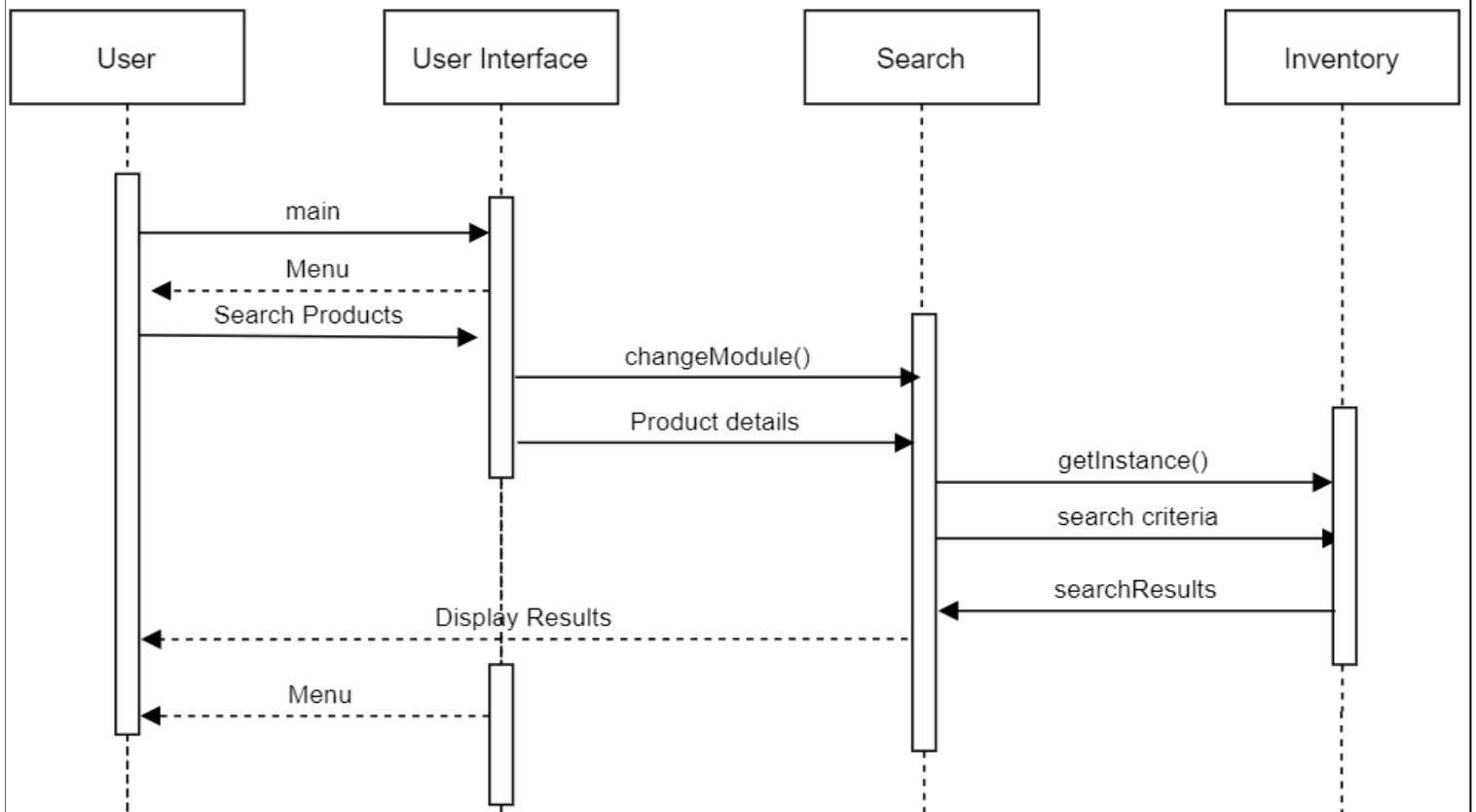




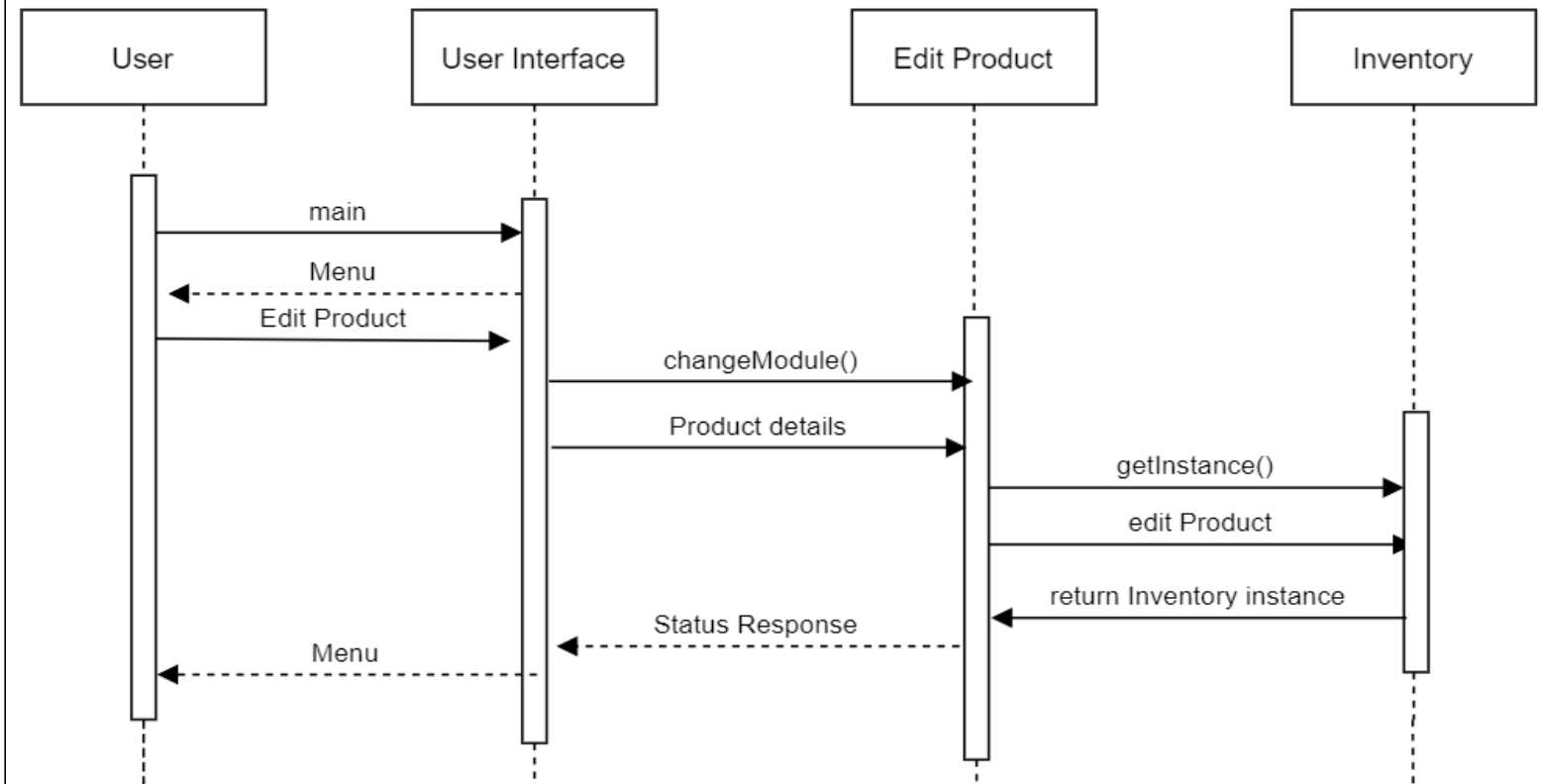
D. Sequence Diagrams



Use Case: search for a product in inventory by its details



Use Case: modify a product in inventory



Use Case: view all inventory products' details

