

## Week 4: Use Cases Elaboration

### Use Case #1

Use Case Name: Add Manager  
Id: 2  
Scenario: New user is added to system as a manager  
Triggering Event: New manager is hired  
Brief Description: A new manager is added to the system  
Actors: Administrator  
Assumptions: Manager is not already in the system (as Clerk)  
Frequency of Use: Monthly  
Related Use Cases: Deactivate User, Promote User  
Stakeholders: Administrator, Manager  
Preconditions: Manager is not in system. Manager details are known.  
Postconditions: Manager has been added to the system with a PIN assigned.  
Main Course:  

1. Administrator selects Add Manager from Employee Management menu
2. Administrator enters manager details
3. System prompts for confirmation of details
4. System offers test of assigned PIN
5. System adds manager

  
Alternate Course:  

1. Employee number already in system
  - a. Offer to change employee number for new employee
  - b. Offer to promote clerk to manager
2. PIN doesn't match
  - a. Re-enter PIN

### Use Case #2

Use Case Name: Add Item to System  
Id: 4  
Scenario: New item for sale gets added to system  
Triggering Event: New item becomes available  
Brief Description: A new item is added to the sale system.  
Actors: Manager  
Assumptions: Item is not already in the system.  
Item details (description, codes, price) are known.  
Frequency of Use: Weekly  
Related Use Cases: Deactivate Item  
Stakeholders: Manager, Clerk  
Preconditions: Item is not in system. Item details are known.  
Postconditions: Item is available to be sold through the system.  
Main Course:  

1. Manager selects Add Item from Item Management menu
2. Manager enters item details
3. System prompts for confirmation of details
4. System offers test scan of item (to verify barcode)
5. System adds item

  
Alternate Course:  

1. Item code already in system
  - a. Offer to change details of existing item
2. Barcode scan doesn't match code entered
  - a. Offer to scan item again to try for match (Wrong item was scanned)
  - b. Offer to update item code to match what was scanned

**Use Case #3**

Use Case Name: Ring Up Item  
Id: 7  
Scenario: Item to be purchased is entered for the sale  
Triggering Event: Customer wishes to purchase item  
Brief Description: Employee rings up an item  
Actors: Clerk or Manager, Customer  
Assumptions: Item has already been entered into the system  
Frequency of Use: Many times each hour  
Related Use Cases: Add Item to Sysem, Update Item Details, Remove Item from Sale  
Stakeholders: Manager, Clerk, Customer  
Preconditions: Item has been entered into system  
Postconditions: Item has been added to the sale transaction  
Main Course:  
1. Item is scanned by clerk or manager  
2. Item is added to sale  
3. System displays item details  
Alternate Course:  
1. Employee can specify quantity of items after scanning  
2. System updates quantity on display

**Use Case #4**

Use Case Name: Remove Item from Sale  
Id: 8  
Scenario: Item that has been rung up needs to be removed from the transaction  
Triggering Event: Customer changes mind, Item is unavailable, Mistaken item scan  
Brief Description: A new manager is added to the system  
Actors: Clerk or Manager, Customer  
Assumptions: Item has been rung up, item should not be processed with sale  
Frequency of Use: Daily or Hourly  
Related Use Cases: Ring Up Item  
Stakeholders: Manager, Clerk, Customer  
Preconditions: Item has been rung up  
Postconditions: Item is not included on sale  
Main Course:  
1. Employee selects item from current sale  
2. Employee either:  
a. Specifies new (reduced) quantity  
b. Selects remove to eliminate the item  
3. System shows updated quantity (possibly zero)  
Alternate Course:  
1. Employee sets system to item removal mode  
2. Employee scans item to indicate which item to remove  
3. Employee specifies quantity to remove (or all)  
4. System displays updated quantity (zero)

**GitHub Link:**

<https://github.com/Maryville-SWDV-630/ip-4-PJohnson9>