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| A magnifying glass over a box  Description automatically generated  Inventory Control System  Rabia, Kegan, Luis | Abstract  WalmKrogCost needs a new scalable inventory control system for their growing chain of grocery stores.  Cortes  CIST 2931: Advanced Systems Project |

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DATE: October 15, 2023

PROJECT NAME: WalmKrogCost Inventory Control System

SUBMITTED BY: Rabia, Cortes, Kegan

# Adding and Modifying an Item:

The primary use-case of an inventory system is to add and modify items into the inventory database. This use case is the most critical of the entire project, as it will be used daily by stores and by corporate. This system will allow users to modify multiple records per item in the database, adding a brand new item or changing select records to override the item in the database.

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| **ID:** | **WKC\_AM\_1** |
| **Title:** | Add or Modify Item Record |
| **Description:** | * Authorized user wants to add a new item to inventory or modify an existing record. * User fills in or changes records for the item:   + Name   + Cost   + Sell Price   + Quantity   + Shelf Location |
| **Primary Actor:** | Corporate Inventory Specialist, Manager, Operations Manager, Shift Supervisor |
| **Preconditions:** | * Inventory Database must be established. * Management Authentication must be established and online. * Management Credentials must authenticate. |
| **Post-conditions:** | * New record for item contains all necessary information and is sorted into inventory control based on tags. |
| **Use Case Diagram** | |  |  |  | | --- | --- | --- | | Event Name | Event Type | Use Case Name | | “Authorized user wants to add an item to inventory”. | External Event | Add Item Record | | “Authorized user wants to modify an item in inventory”. | External Event | Modify Item Record | |
| **Main  Success Scenario:** | Action 1: User logs in with credentials to system and is authenticated by server.  Action 2: Display inventory database by primary sort option, and display user controls including search functionality.  Action 3: User chooses to add item record through menu.  Action 4: Display fields for user to fill out for added item record.  Action 5: User fills in:   * Name * Cost * Sell Price * Quantity * Shelf Location   Action 6: Each record is checked for logic and consistency.  Action 7: Item is added to database with all records.  Action 8: Display main menu for inventory database. |
| **Extensions:** | Alternate: Modifying an items’ records –  Action 4: Display search menu for user to select item to modify  Action 5: User modifies fields:   * Name * Cost * Sell Price * Quantity * Shelf Location   Action 6: Each record is checked for logic and consistency.  Action 7: Item modified in database with all records.  Exceptions/Errors #1: User enters negative number (Allowed, but not by user entry).  Exceptions/Errors #2: User enters a name past character limit of sixty-four.  Exceptions/Errors #3: Shelf location does not exist in planogram section.  Exceptions/Errors #4: User enters name already existing.  Exceptions/Errors #5: Numbers are larger then 200 for logic and consistency. |
| **Frequency of Use:** | Stores will engage planograms every six months, and inventory will be added frequently. Managers can also change item details such as stock levels on a daily basis, dozens of times a day. Tolerance for error must be low as this is a critical infrastructure tool. |
| **Status:** | The development of the main database component is complete, and now user interface is being worked on to allow users to add and modify items at will with ease. |
| **Owner:** | Luis Cortes, Project Manager / Java Programmer |
| **Priority:** | Highest Priority. This use case is the most critical piece of infrastructure in the project, and the projects success hinges on this component working at one-hundred-percent efficiency every day. |