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Team 3 Final Project- Inventory Program

The Inventory Program is designed to maintain and track the use of perishable and non-perishable items for 100% accountability and stock on hand inventories. It will also maintain user accounts and access levels.

A manager will be able to set up a new user and assign appropriate access level for the employee. All users will be able to login and see all items on the inventory, sales person will be able to change inventory quantities as necessary. The stock person will be able to change the cost and name of the items as items change vendors or names they will also be able to change quantity for inventory adjustments.

First login to the Inventory Program with assigned user name and password. Double authentication is required by entering the user password twice. Then redirecting the user to the Inventory GUI.

In this screen the user with proper access can change, update, or add item information such as inventory quantity, cost, expiration day, date received, and product name. A regular expression will validate the formats and inform the user of any errors to be fixed before add or update will process.

All the information entered by the user will be stored into an array list and then written to an XML document.

If at any time items that are expired or expiring in a certain time will have an exception caught that identifies the expiration and/or time left before expiration.

JUnit tests will be set up to find or check for proper function of the Inventory Program when adding, updating and removing inventory.

The inventory, login, and manager screen will be GUI with its own controller to allow proper access to what is required for each user. The CEO/Manager will be able to change price, cost, quantity, name, and create user accounts. The Stock personnel will be able to change cost, quantity, and name. Sales personnel will be able to change quantity.

On start up the program will read in a XML to preserve the previous information before any changes can occur. When the save button or the exit is initialized then the information added or updated will be saved and written to a new XML along with the unchanged information.