Iteration 0

EECS3311 - Section M

Team 10

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Vision Statement

The Inventory Management (TIM) application will be used to maintain information about a grocery store's products and inventory. The application will provide the expiry dates of the products, allow managers to order based on their stocks, and make receiving products easier. It will store all information regarding stock, expiration, and what orders to expect. Moreover, once the shipment has been received, it allows users to scan items and have them be automatically added to the inventory, making a tedious process much more streamlined.

The system will primarily be used by different department managers of the Longo’s Brothers Company. The managers will have access to view, modify and make orders, receive alerts when products or items are expiring, and receive shipments. Every time there is an order or there is an upcoming shipment expected, there would be a receipt generated with an order ID. This order ID will help managers and the company to keep track of the order and it also makes the receiving process easier.

The TIM application will give access to managers to place automatic orders; whenever the stock becomes lower than a certain amount, it will place an order for them and generate a receipt. It will also send alerts when it is close to the expiry date of certain products. Additionally, with the help of an order ID for all the orders(both outgoing and incoming orders), managers can easily track the orders and add them to the inventory system.

Although the system will be primarily used by managers, the store manager will also have access to the application to have a general overview of the orders and stock in the whole store.

There won’t be any registration needed, since the system will only be given to managers and the store manager. The application will be used on specific desktops that only authorized people can have access to. However, there will be different categories related to different departments. For example, the Meat department inventory will be separated from the Bakery department.

The TIM system will be implemented to be used as a desktop application, but it will have the potential to be upgraded in future releases so it can be used as a mobile or web application as well.

The Inventory Management system will be an improvement over the current systems that are being used. The reason is that it will provide advanced, upgraded features for managers. The current system in use does not allow managers to set up an automatic ordering feature so it can prevent any stock shortage. There are no alerts implemented in the current applications in use

for expired products. Managers and workers have to manually check for expired products and take them off the shelves, which takes a lot of time and energy and also increases the chance of error. Last but not least, in order to receive products and shipments, managers have to manually scan and put the number of items in the system. With the help of the TIM application, authorized personnel can set up schedules for ordering based on their stock and sale, keep track of expired goods easier with the help of alerts and notifications, and use order IDs to put everything in the system just by typing the order ID in the specified section.

The system will be considered successful if Longo's Brothers Company prefers to use this system over the current system they use. If the main three parts of the system, automatic ordering, alerts for expired items, and receiving shipments with order ID, show a significant change and improvement over the current system (or even a single one of them helps the store and managers, without a reduction in the other two components), the system will be considered successful.

Big User Stories

Iteration 1

Finding Items in Stock
I want to be able to find out if an item is in stock. Priority: High Cost: 3 points

Updating Stock
I want to be able to update items from stock. Priority: High Cost: 3 points

Permanent Record of Stock
I want a permanent record of what’s in stock at any given time. Priority: High Cost: 3 points

Iteration 2

List Expired Items

I want to be able to get a list of all expired items.

Priority: Medium
Cost: 2 points

Point of Sale

I want items that have been sold to be automatically removed from stock.

Priority: Medium
Cost: 5 points

Ordering Stock

I want to be able to easily order any items that need to be restocked.

Priority: High
Cost: 3 points

Iteration 3

Alerts

I need to receive alerts on the system if items are expiring, if an order was externally canceled, if an order was not received on time, if a scan has failed, if the system is experiencing trouble, etc.

What events require an alert?

Priority: Medium
Cost: 3 points

Automation

I want to be able to automate common tasks in the system.

Priority: Low
Cost: 5 points

Temporary Modifiers on Price

I want to set temporary changes to the price of certain items. For example, sales or markups.

Priority: Low
Cost: 3 points

Detailed User Stories for Iteration 1

Add to Stock
I want to be able to add new items to the stock. Priority: High Cost: 1 point

Remove from Stock
I want to be able to remove items from stock. Priority: High Cost: 1 point

Update Properties of Items
I want to be able to update price, stock, expiry date, and other properties of an item Priority: High Cost: 2 point

View All Items
I want to be able to browse a list of all items in stock. Priority: High Cost: 2 points

Filter by Price
I want to be able to filter items by price, Priority: Medium Cost: 1 points

Filters by Expiry Date

I want to be able to filter items by expiry date.

Priority: Low
Cost: 1 points

Filters by Quantity

I want to be able to filter items by quantity.

Priority: Medium
Cost: 1 points

Keep Permanent Record Updated

I want the permanent record to be updated every time there is a change.

Priority: High
Cost: 1 point