

# Grocery Management

**By Amal Malamel Anto**

## Introduction

Managing groceries and keeping track of its stock details and expiry date is one of the major problems faced by 'Shop Managers'. Keeping track of products in paper or book is almost impossible today, because of the huge number of details. This is the situation, when engineers become an important part of the society. Identifying a problem in the society and solving it creatively and efficiently is what engineers must do. This will help to make people's life simple and also to use time efficiently.

## Grocery Management Application

Creating a desktop application software to manage the groceries was the idea to solve the problems faced by the shop managers. The application will help the manager to keep track of the products in the store very easily in a fraction of time. The shop manager will be the user of the application and the following features are found to be important to make the application comfortable for the user.

- A list that shows a complete list of Groceries.
- Functionalities to add, delete and edit groceries.
- Functionality to make the user aware about the stock details.
- Functionality to highlight items that are expired.
- Filter to help the manager to find the item easily.

## Wireframe

Wireframes will give the developer a clear idea about what he is going to create. The wireframe given below shows how the application will look like and also shows the functionalities that are to be included.

## MANAGE GROCERY

ENTER PRODUCT NAME TO BE FILTERED

Milk  
98435421

cookie  
32796451

PRODUCT

PRODUCT ID

COMPANY

UNIT PRICE

STOCK LEFT

EXPIRY DATE

ADD

DELETE

The wireframe gives a proper idea about the alignment of controls like button, text box, etc.

## Implementation

Grocery Management
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### Manage Grocery

Enter product name to be filtered

pizza  
1189448667

Shampoo  
571510956

Shampoo  
327964367

Musli  
703614444

Shampoo  
1502431018

Deodrant  
105555555

Product

Product ID

Company

Unit Price

Stock Left

Expiry Date

Add

Delete

After implementation the 'Grocery Management' application looked like this. The 'Add' button is used to add new items to the list. Using the delete button the items can be deleted from the list. The filter is used to find the grocery very easily from the list. If for any item the stock is less than a minimum value or if the item has expired that item should be highlighted in red colour in the list box.

## Result

After finishing this project I was able to understand how to design a software application. I was introduced to the concepts of software 'Ergonomics', which motivates us to think from the users side. I learned to think from the perspective of the user who is going to use this application. I also learned about 'Gestalt principles' which tells us to think about the flow of design and alignment of controls without confusing the user. The design is made to make it easier for the user to use the application and reduce the complications by using simple design. I was able to design the application by properly setting the positioning and orientation of different controls.

Even though I was able to accomplish many things in this project, some features like notifying the user about the expiry of an item was not implemented. But, thinking about the positive side, I was able to learn a lot of new things and a new technology by doing this project.

