Grocery Tracker

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Description

How many times have you stopped at the grocery store on your way home from work and couldn't remember if you needed milk? Maybe you remember seeing a half of a gallon this morning, but when will it expire? How many times have you put something in your freezer only to find it months later buried underneath much fresher foods? My project will help you with these common problems. It will help you keep track of your groceries and their expiration dates. This web app will serve as a way to get organized and eliminate food waste.

Features

- Register/Login - to access your inventory from anywhere
- Add/Remove Inventory
- Sort inventory by location stored - (refrigerator, freezer, pantry, etc)
- Scan barcodes to simplify the process of adding inventory
- Send alerts and/or reminders when a grocery item has expired or is about to expire

Planning - User Stories

The user is able to register and login to access their grocery inventory from anywhere. The user is able to add and remove groceries to/from their inventory (database). The user is able to sort groceries based on where they are stored to view just pantry groceries or just freezer groceries, etc. The user is able to scan barcodes for faster intake of inventory. The user will receive notifications when groceries are expired or near expiration. This web app should help the user to be more organized and eliminate food waste.

Planning - Database

Grocery Tracker uses a Grocery table to store the grocery inventory along with a column for descriptions and a column for storage. The Storage table stores the different locations that the groceries can be stored (pantry, refrigerator, freezer, etc.). The Storage table connects to the storage column in the Grocery table. User ID table will connect to the user ID column in the Grocery table.

Technology Stack

- Language - Java
- Framework - Spring Boot
- Template engine - Thymeleaf
- Database engine - phpMyAdmin
- Twilio API

What I Learned

- How to create a Java web app
- How to integrate a database with multiple tables
- How to use Bootstrap to make my app aesthetically pleasing
- API

What's Next

- Add API to scan barcodes
- Add more Bootstrap features for cosmetic reasons
- Generate a shopping list based on expiration dates
- Learn Javascript