York and Co. Pharmacy Management System

Iteration 0

Team 8
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Interactive Pharmacy Inventory System Vision Statement

The pharmacy system will be used to maintain information about a pharmacy's inventory and will also act as an interactive kiosk for its customers. It will help manage and keep track of the various medications found at a pharmacy, including both prescription-based and over-the-counter medications, by providing assistance to restock when inventory is low. The system will also allow customers to have access to certain limited features of the inventory and their personal purchase history, so that important information can be easily accessible to them.

The system has been designed for three main users: the pharmacy owner, pharmacists who are employed at the pharmacy and its customers. It will permit the pharmacy owner to have maximum access, which most importantly involves monitoring the inventory and accessing the summary of sales. This will help the pharmacy owner have a good vision regarding which products work well and which don't, allowing him to adjust quantities accordingly for the upcoming business year.

The pharmacy owner and pharmacists will be able to search medication by their characteristics, modify their information such as their quantities, record orders made, and view all customer profiles to see personal information, purchase histories and refills left for prescriptions.

Customers will also greatly benefit from this system as they can not only log in to their own profile to keep track of medications that they have taken; but can also search in the inventory for over-the-counter medication to see if they are available/in-stock for purchase. Having a patient profile also allows the customers to easily—by themselves—check how many refills remain for their prescription medications. Since customers should have a more limited access to the inventory, varying security levels and restrictions that depend on the user will be required.

This project is valuable because it is not *just* a basic inventory system for a pharmacy as it has also incorporated the beneficial, unique feature of letting customers being able to quickly access information they most probably will need/ask for. This is a key characteristic of this system because it will limit the number of calls and number of times that customers have to come in person to the pharmacy to enquire about stock of over-the-counter medications. It will also allow patients to have more awareness about the medications they are currently taking and have taken in the past. As a result, this will decrease the workload for workers and increase customer satisfaction since customers won't have to hold on the phone or wait in line to get answers to simple questions. With more available time, workers can spend more time and effort on crucial tasks such as fulfilling prescription orders properly and preventing any medication going out of stock.

The project will be considered successful if employees feel that they have reduced the chance of out-of-stock inventory by 25%. Moreover, it will also be considered successful if customer satisfaction has increased by 35% from saving their time asking generic questions.

BIG STORIES + PLANNING DOCUMENT

ITERATION 1

Add Medication to Inventory

As the owner or a pharmacist, I need to be able to add quantities of prescription-based and over-the-counter medication to the inventory.

Priority: High

Cost: 6 days

Remove Medication from Inventory

As the owner or a pharmacist, I need to be able to decrease quantities of prescription-based and over-the-counter medication from the inventory when customers buy them.

Priority: High

Cost: 4 days

Search (All) Medication from Inventory

As an owner or a pharmacist, I need to be able to search for whether we carry certain medication in the inventory and how many are in stock.

Priority: High

Cost: 4 days

Create Patient Profile

As a pharmacist, I need to be able to create a secure profile for all new patients/customers by entering personal info.

Priority: High

Cost: 5 days

BIG STORIES + PLANNING DOCUMENT

ITERATION 2

Add/Record Order to a Patient's Purchase History

As a pharmacist, I want to be able to add an order for a prescription-based OR over-the-counter medication to the purchase list of a customer/patient.

Priority: High

Cost: 5 days

View Sale Summary

As the owner, I want to see a summary of the amounts of all the medications we sold.

Priority: Low

Cost: 6 days

View Patient/Customer Purchase History

As an owner or pharmacist, I want to be able to view any patient's medication purchase history.

Priority: Medium

Cost: 6 days

BIG STORIES + PLANNING DOCUMENT

ITERATION 3

Search Over-The-Counter Medication

As a customer, I want to search over-the-counter medication and view their stock status (available or not).

Priority: High Cost: 4 days

View My Own Purchase History

As a customer, I want to be able to view a list of purchases I made.

Priority: Low Cost: 5 days

View Patients/Customers

As an owner or pharmacist, I want to be able to view all patients/customers in the system and their personal information like name, address, birth date, phone number, health card number

Priority: Medium Cost: 4 days

DETAILED STORIES

Add New Medication

Add a new medication to inventory, its name, the corresponding quantity, its price, prescription-based or over-the-counter, type of medication (ex. flu, fever, cold, throat pain, cough syrup), form (ex. capsules, soft gels, syrup), brand name

Question: What features can be used to sort/search medications?

Priority: High Cost: 2 days

Increase Quantities of Existing Medication

Increase current stock of a medication already in inventory by any amount

Priority: Medium Cost: 2 days

Display Medication Inventory

Display all the medication that the pharmacy sells, their names, their quantities, and their prices

Question: Would it be displayed in a default sorted manner? For example, alphabetical order, price, etc.

Priority: Medium Cost: 2 days

DETAILED STORIES

Notify when Medication is Low in Stock

Keep track of medication quantities: if any quantity falls below 3, it should notify the workers that it's time to order more of this one

Question: How will the system notify the owner/pharmacist? Will there be a visual change or a new button?

Priority: High Cost: 2 days

Decrease Quantities of Existing Medication

Decrease current stock of a medication by a possible amount

Question: What happens if the amount the quantity is being decreased by is greater than the quantity of medication present? How should this order/action be prevented?

Priority: Medium Cost: 1 days

Remove Existing Medication Type

Remove an existing medication type from inventory as the pharmacy will no longer be carrying/selling it

Priority: Low Cost: 1 days

DETAILED STORIES

Search Medication by Name

List all the medications that contains the searched keyword with their quantities in stock

Question: How will we differentiate 0 quantity and pharmacy doesn't carry medication?

Priority: High Cost: 2 days

Search Medication by Characteristic

Search a medication based on specified characteristic (ex. if pharmacist types "cough syrup" as type of medication, all medications that are cough syrups are displayed). **can expand for any characteristics**

Priority: Low Cost: 2 days

User Log-In

Owner/Pharmacist can log into system using hardcoded username/password; and customer can login using their health card number as username and date of birth as password.

Priority: High Cost: 3 days

DETAILED STORIES

Add Patient/Customer

Add customer as a patient to pharmacy by creating account with all personal information like name, address, birth date, phone number, health card number, family doctor

Question: Where will this information be stored? In database?

Priority: High Cost: 2 days

EECS 3311 Project Peer Evaluation

Please submit this form on eClass (doc or pdf) Together with your submission

Each team member is supposed to put in 100% effort in developing the class project, in each iteration. If you think that in your team there are individuals who did not put as expected. You can mention it in this form. You evaluate everybody in your team by giving them a mark out of 100. This may affect their individual marks, as explained in class. Note that:

1. 100 means satisfactory. You don't give anybody more than 100.
2. Lower than 100 marks must have an explanation, which typically is a fact, like #commits, late commits, not completing the assigned tasks, not attending meetings, etc. that I can verify in your logs/github/etc.

Group Number:		
Member's Name	Mark	Explanation (only if mark < 100)
Aiza Bajwa	100	
Alvin Ta	100	
Geon Kim	100	
Minh Tran	100	
Sanjida Afreen	100	

Your name (printed): _Aiza Bajwa, Alvin Ta, Geon Kim, Minh Tran, Sanjida Afreen_

Signature: