CSCE 606 – Software Engineering
Project: Inventory System
Sprint # 1 – Planning

Customer: Dr. Robert Lightfoot

Development Team:
- Rafael Morales (Product Owner)
- Calvin Parker (Scrum Master)
- Khush Patel (Developer)
- Saba Mostofi (Developer)
- Arun Akash Rangaraj (Developer)
- Sid Rayapur (Developer)

Customer meeting:
- Dr. Lightfoot was contacted by email on Tuesday, January 28th. After our initial interaction, we scheduled our first meeting for Friday, January 31st. The meeting was held in person and on Zoom for the remote students.
- We agreed on having a weekly meeting every Wednesday @ 4:00 PM. These tentative days are subject to change depending on the availability of Dr. Lightfoot.

Summary:
During the first meeting, we introduced ourselves, and the customer explained their needs for this project. His goal is to have an application that serves as a personal inventory system. This system consists of a QR code or NFC Chip that tracks every bin the user uses, allowing them to access the inventory and easily find previously stored items. The app can also scan the QR code attached to each bin, enabling the customer to quickly identify its contents. Several additional features will be included, such as the ability to add items and locations, create lists of items that haven't been used for a specific time frame so they can be tagged for a potential garage sale, and more. This application will be web-based, accessible via a web browser, and compatible with cell phones and tablets. The user will have an account with a user ID and password. Additionally, the app needs to be flexible to allow for extra locations, categories, and items that are not stored in bins.

The application will meet this need by allowing users to log in to their accounts and scan QR codes to find the contents of each bin. The website will also have an Inventory tab to facilitate the search and filtering of items in multiple ways. Several additional features will be added to provide users with flexibility, such as the ability to create a list of items for sale that have been in storage for more than three years.

Stakeholders:

Below is a list of individuals with an interest in this project:

- Dr. Robert Lightfoot – Owner/Client
- The Development Team
- End Users – Dr. Lightfoot intends to use this app for personal use. However, in the future, it could be deployed for internet users as a SaaS (Software as a Service) platform.

User Stories:

1) Feature: Create my account for the first time

As a new user of the website
I want to create my account
So that I can start adding items to my inventory

2) Feature: Log in to my account

As a user with many inventories
I want to log in to my account to have access to my homepage
So that I can manage all the bins and stuff inside them

3) Feature: Add/update/delete location

As a user,
I want to view and update existing locations or add new ones to the database,
So that I can efficiently access all the storage I have

4) Feature: Add/update/delete a bin

As a user,
I want to view and update existing bins or add new ones to the database,
So that I can efficiently manage and expand my storage for items as needed.

5) Feature: Search items in my inventory

As a logged-in user
I want to search for an item,
So that I can know what location and Bin is stored.

7) Feature: Create a Garage sale list

As a logged-in user
I want to search for items in location X more than X years of storage
So that I can find out when I removed an Item from a Bin

8) Feature: List of pictures of items in a Bin

As a logged-in user
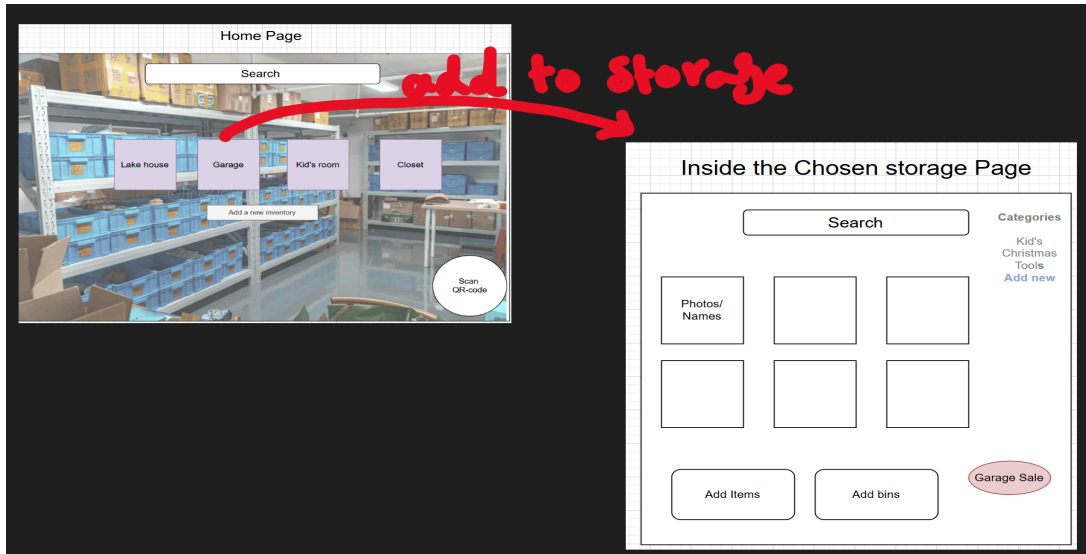I want to click on "What is inside the bin"
So that I can have a pictures of all the items in the bin
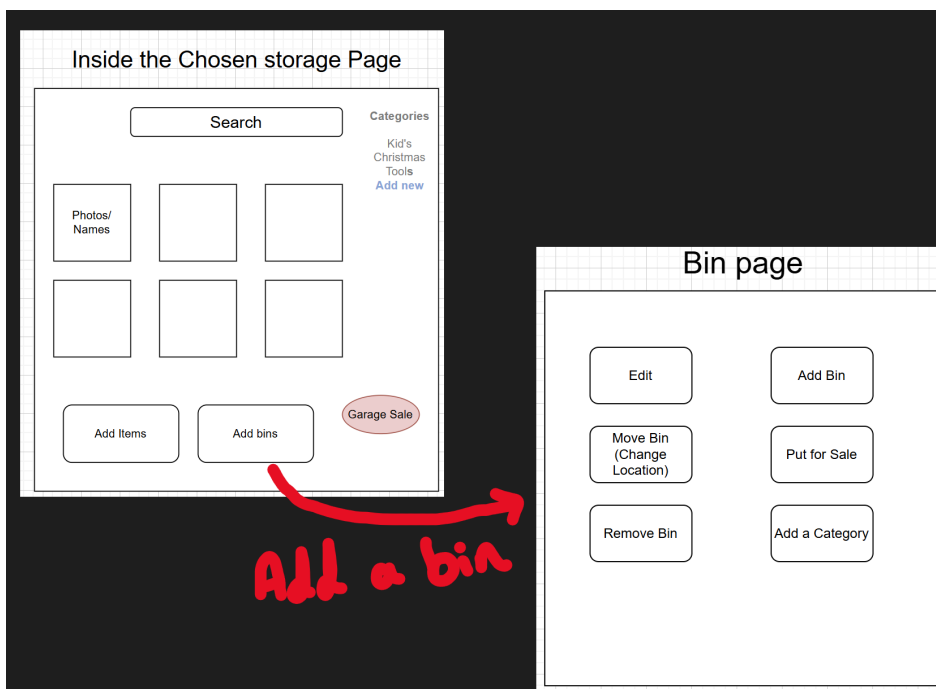
UI mockups:

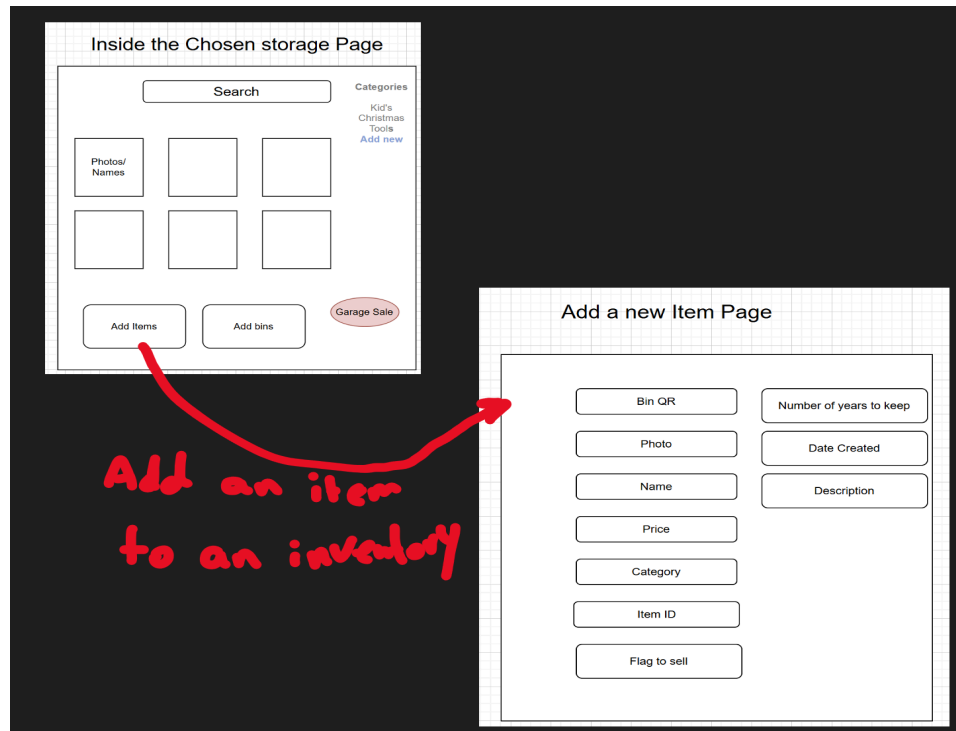Feature sign-in to my account Mockup:

Feature Add/update/delete location:

Feature Add/update/delete bin:

Feature Add/update/delete item:

Links:

Repo: https://github.com/kxusx/inventory-system

Tracker: https://softwareengin-ofn3953.slack.com/lists/T08A4A8U89M/F08AMV9KGUV

Discussion Channel: https://app.slack.com/client/T08A4A8U89M/C08AJRT0UTC