Grocery List

Problem this website will solve:
- The problem when splitting groceries evenly
- Sometimes people might forget what their friends wants to buy, having a grocery list that we can share will be helpful
- The ease of reusing past grocery list

User Target:
- People who live with others in a house
- Students who usually go grocery shopping together
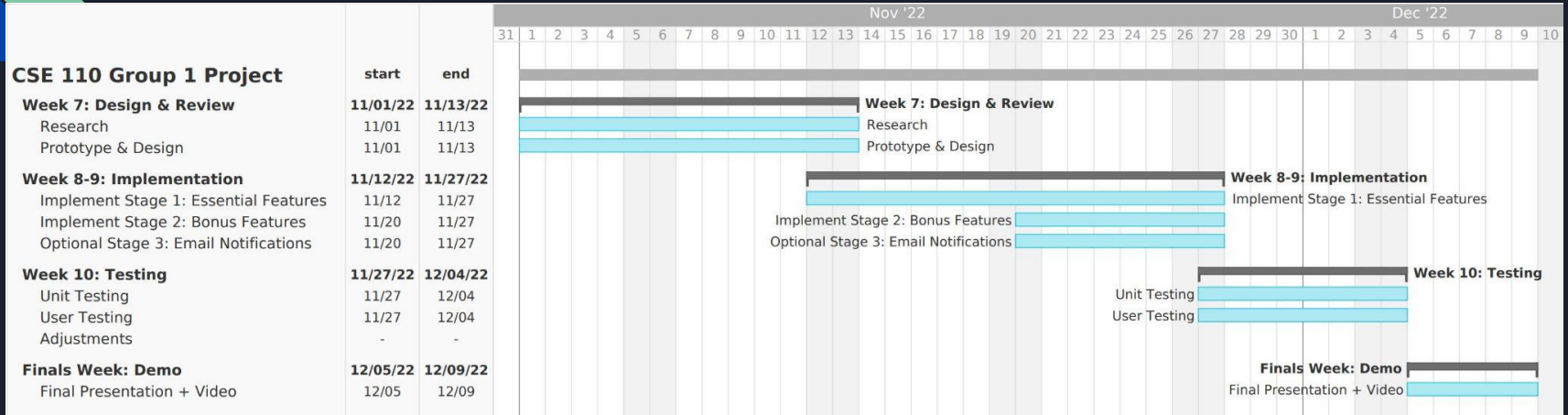- Individuals who like to go grocery shopping

When living with others, either roommates, family members or a partner, buying shared groceries and other items can get messy. It can be tricky to keep track of what items are needed or already purchased, and one may forget important items. When a larger group share a household, it would be nice to be able to share a shopping list where you can efficiently add and remove items. Whoever happens to be the first to go grocery shopping would have the list ready at hand, and would not have to worry about buying something that somebody else already got for the household.

Imagine that one guy in the group who never bothers to go shopping for the household. By keeping track and rewarding points for completed shopping trips, everybody can easily tell who is pulling their weight and who is slacking off.

Even when shopping for just yourself, remembering what to get can be difficult. Sometimes you'll forget that one item you always want to get, or you end up going back and forth to the same isles in the grocery store. What you need is an app that saves your old shopping lists for easy reuse and sorts the items you want by isle or section, making your shopping trips as efficient as possible.

Appetite

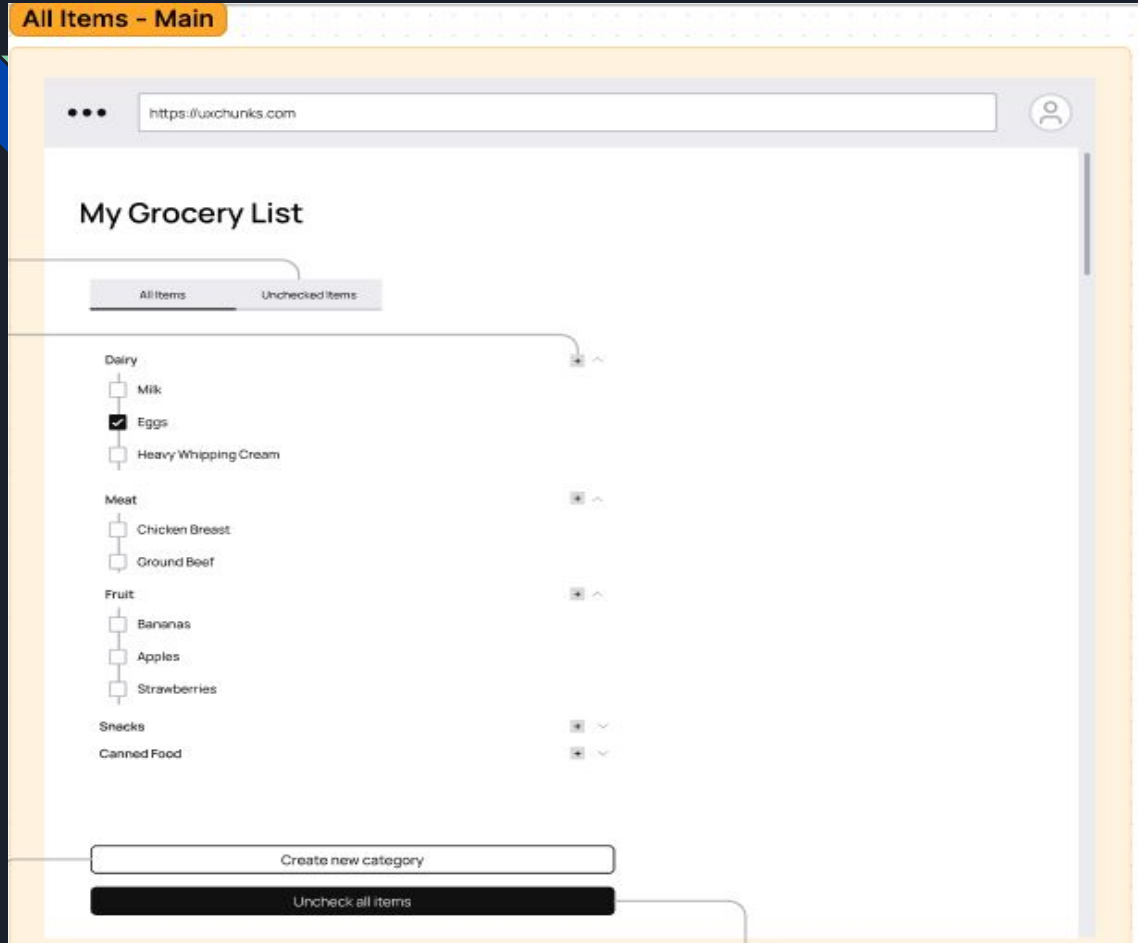| CSE 110 Group 1 Project	start	end	
Week 7: Design & Review	11/01/22	11/13/22	
Research	11/01	11/13	
Prototype & Design	11/01	11/13	
Week 8-9: Implementation	11/12/22	11/27/22	
Implement Stage 1: Essential Features	11/12	11/27	
Implement Stage 2: Bonus Features	11/20	11/27	
Optional Stage 3: Email Notifications	11/20	11/27	
Week 10: Testing	11/27/22	12/04/22	
Unit Testing	11/27	12/04	
User Testing	11/27	12/04	
Adjustments	-	-	
Finals Week: Demo	12/05/22	12/09/22	
Final Presentation + Video	12/05	12/09	

Week 6-7 - Focus on creating initial design and prototype of website app (done w/ Figma)

Week 8-9 - Begin implementing website, features are split into 2 main stages

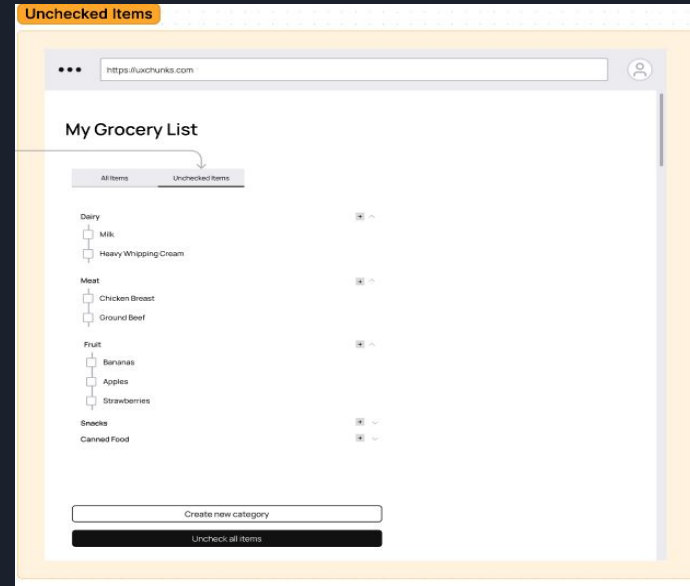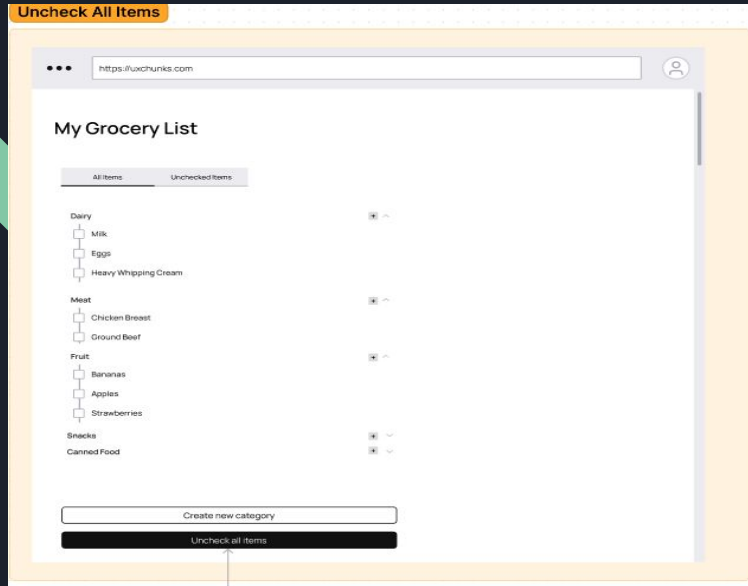Week 10 - Focus on testing and debugging by writing unit tests and let other users try out the website

Finals Week - Prepare for final demo/video!

Solution

This is the overview of our web page.

Where it is a list of grocery that are put into different categories that are reusable.

When checking an item, it will disappear from the all items list

When all the items are unchecked, they will go back to the default view, which is a reusable feature for the user, so that the user can keep using the same list for every trip.

Add categories and items:

For each category, the user can add items according to the category that they want to put.

The user can also create their own category for their own list.
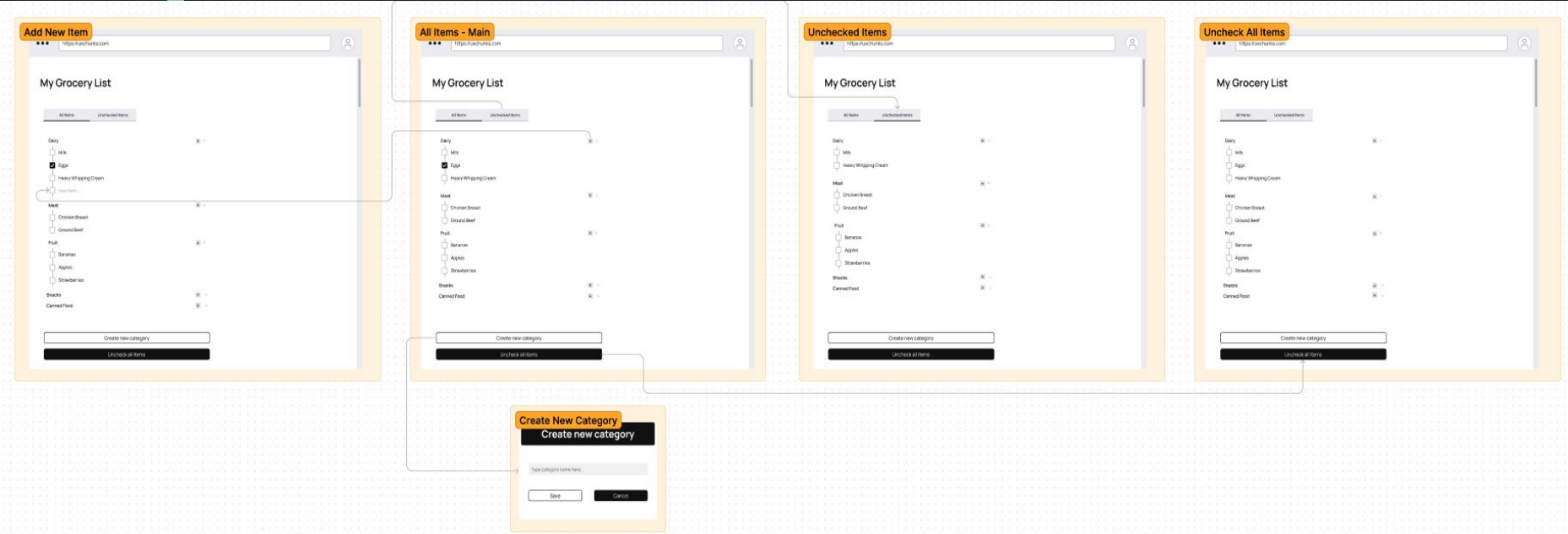
Features to consider:

Payment splitting + add users

The user list will have an option to divide the total amount on a percentage basis to avoid little calculations and give an overall spending budget

Users	Split	Cost
User1	20%	4
User2	40%	8
User3	40%	8
Total	100%	20

Recalculate

Wireframe:

Call for details in following implementation:

- Adding items to list
    - Sorting order of items
    - Detailed properties about items: amount, brand ...

- Multi-user interface
    - Conflicts in merge between different users
    - Ways to distinguish users specified items

Adding items to list

- Sorting order of items:

    - Issue: when adding item lists directly to the interface, it will be messy without proper sorting order.
    - Solution: to correctly sort, first we use category-oriented sorting: user first create categories, and then user add items directly to given category. Secondly, we could ask user preferable ways of ordering inside each category, sorting in alphabetical, item-amount, or user-identity order.

- Detailed features about items:

    - Issue: when users add items, name would not be the only tags they need. User might also want to include other features like amount, brand, or prices.
    - Solution: when items created, we provides additional properties bars asking user to input. If user specified, we attach expand icon to each items which would display these additional properties if user pressed.
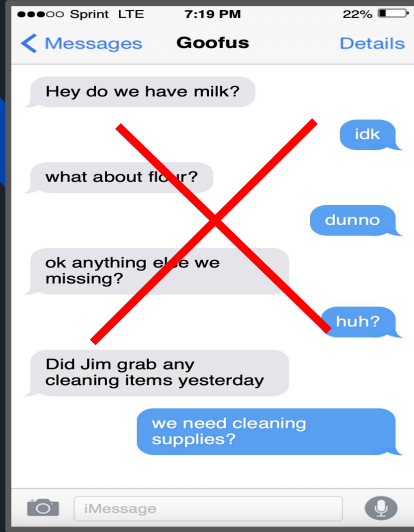
Multi-Users Interface

- Conflicts in merge between different users:

    - Issue: as list is sharable, when different users intend to merge or modify the list, there would occur conflicts, including duplicated items added, different amount …
    - Solution: Conflicts mainly would be determined by name of item. If multiple users input same item name, like eggs, we would ask user to specify action, to replace, delete, or merge. Replace means to replace the original items with current added one in the shareable list. Delete means to thrown away the current added item and keep the original one. Merge means to merge the properties of items with same name, including merging the amount or brand to buy, etl.
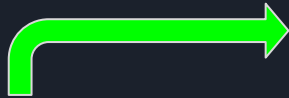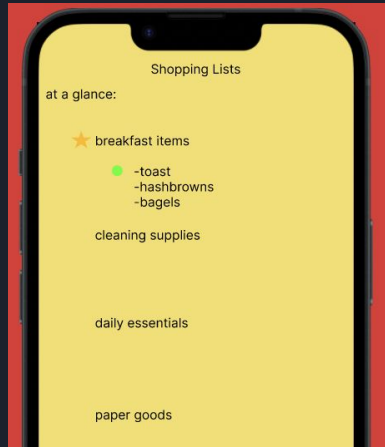
Multi-Users Interface

- Ways to distinguish users specified items:

    - Issue: when users input different items, after correctly merged, user might also want to know which items they specify in the list.
    - Solution: 1. We could denote different colors for items to specify the user. But as users size increase, list might get messy and hard to distinguish
    2. We could ask user to input their name during the adding item process, and attach their names after items using brackets.
    For example: Eggs (Tom) Eggplant (Lilly) etl.

No messy live chat feature. We don't want a messaging app. The application is meant to simplify the shopping experience without need for back and forth texting!
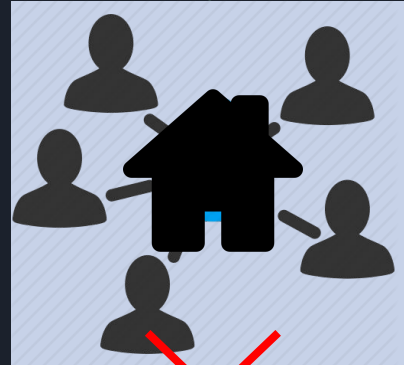
No public access! Personal, private access via "household" concept in which the member/user of the household may add lists (edit permissions) and view lists in their household (read permissions). This is all done locally!

Forget about endless texting at the grocery store. Click away your shopping at ease!

External users cannot access or view other households. The grocery lists are kept locally on one's account.

- No conflicting updates or edits:

Real time editing could sometimes be troublesome when multiple users are editing the same shopping list and trying to insert duplicate items. This app should be convenient for the users to use rather than letting users constantly checking for duplicates. Therefore, to avoid potential messy conflicts, the app will only allow one user to update the specific list at one time. (pending review)