

Home inventory management app.













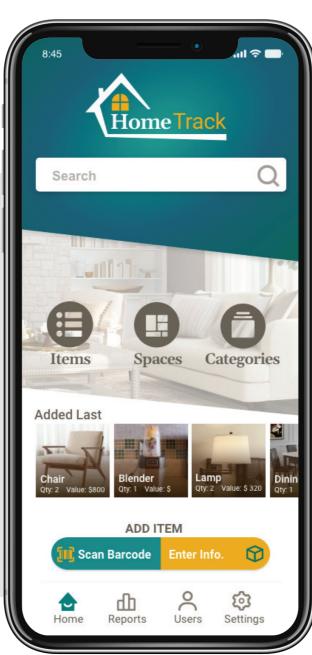


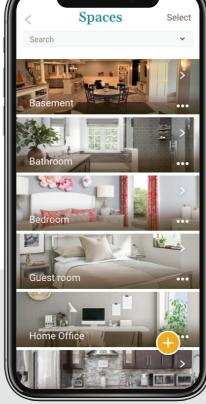


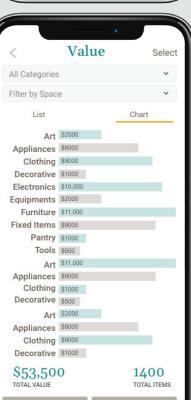


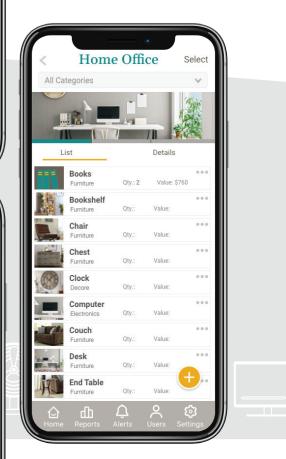












## **Back Home from a Vacation**

In 2018 September, I returned from a family vacation to find our home severely damaged due to a leaking water pipe on the first floor. Our home had to be completely gutted down and rebuilt.

Apart from the stressful process of figuring out the rebuilding logistics, I also had to make a list of our personal belongings for the claim process. It was a daunting task to meticulously document the many possessions we had accumulated over the years.

The claim process did not have to be so difficult. Several items never made the claim list, and now, two years later, I can still think of items that were not included. The loss on unclaimed items was totally avoidable.



## The Problem

People own thousands of items and their belongings keep growing over time. With about 300,000 items in an average american home, we don't have the mental capacity to keep track or account for all our belongings. Data also shows that every 1 in 20 homes has an insurance claim. So, underestimating the value/quantity of one's possessions can lead to severe monetary loss in the event of property damage.

# **Hypothesis**

A product that keeps track of home items to help manage one's belongings. Users can maintain a comprehensive list of things they own by adding details like quantity, cost, location, and warranty information. In turn, the product provides a detailed account of all their possessions.



## **Outline of Research**

I decided to research the following aspects to get an understanding of the problem space, potential users and opportunities to provide novel and effective solution.



# Issues users have due to poor management of their possessions

- . Stress due to clutter
- Underestimating amount/value of property for insurance claims
- Unknowingly buying what they already own
- Problem tracing belongings



# Goals/Motivations of users to manage their belongings

- Declutter/minimalist living/ organizing home
- Insurance claims due to property damage
- Sell belongings to make money or give away
- Hobbyist/collectors wanting to keep things organized



#### **Competitors**

- Direct competitors like home inventory apps
- Indirect competitors like home organization apps
- Unrelated apps offering competing features like schedulers and planners

## **Secondary Research**



## **Key Findings**



(Insurance Information Institute)

There are 72 million insured homes which amounts to **3.6 million** claims each year.

300,000 ITEMS

in an average American home

(LA Times)

**\$30,000**WORTH OF STUFF

in a two-bedroom apartment of an average renter

52%
HOMEOWNERS
prepared an inventory
of their possessions
(Insurance Information Institute)

People have too much stuff and not enough space or time. **Tidying** and decluttering is not just a trend. Professional organizers typically charge between \$30 and \$80 per hour. Per-project rates for a single room range from \$200 to \$375 (such as a kitchen, utility room or home office).

How one maintains inventory is important as not having it digitally or storing in a local computer might result in loss of data when property damage occurs.

## **Competitive Research**

## **Features Analysis**

I looked into 3 competing products (Sortly, NestEgg and MyStuff) to understand the features they offer and explore opportunities to make HomeTrack better.







Sortly

NestEgg

MyStuff

Competitors		HomeTrack		
TARGET	Home and Office	<b>Focus on home inventory</b> management for the MVP to narrow down the scope and target audience for primary research.		
FEATURES TO VALIDATED	Multi-users  Data Sync for devices/platforms  Exporting pdf and csv	User interviews later revealed why it is important to have multiple users as part of the MVP feature.  Customer journey map showed that data sync between devices and exporting/ sharing data are essential feature.		
OPPORTUNITIES TO EXPLORE	Barcode scanning  Video upload  Cloude storage	Scanning barcode is a great feature to enter items but the existing products have a clunky user experience. Barcode scanning has potential to improve by providing a seamless experience.  Not all products provide video upload feature, which can come handy while keeping a record of interior spaces and items in them.		
		Cloud storage, if provided by competitors, is a paid feature. HomeTrack can provide limited cloud storage for free version to safely store all the data.		

## **Heuristic Analysis**

Heuristic analysis helped understand usability issues with some of the competing products. I gave a rating for each product against a tested feature. Here are my learnings from the 3 heuristics I tested:

Heuristics & Feature Tested	Competitors			Learnings	
	Sortly Sort your life				
	Sortly	NestEgg	MyStuff		
Match between system and the real world Assigning a category/room to an item	Poor	Average	Good	ISSUE: User has to create a categorey and/or location for an item.  TAKEAWAY: Provide <b>default set of categories and locations</b> as most categories/rooms within indoor space are very standard. This will cover most of the items/rooms making it easy for users to choose rather than create each category.	
Visibility of system status Selecting a picture from the phone to add to an item.	Poor	Good	Good	ISSUE: Lack of feedback to users about the number of photos selected to add to an item.  TAKEAWAY: Adding an item will be a frequently used flow, especially during the initial phase of usage. Showing the last added item on the home screen will give users feedback on their action.	
Consistency and standards Overall use of the app	Average	Good	Poor	ISSUE: Inconsistent placement of action buttons and icons that are difficult to understand.  TAKEAWAY: Choose icons carefully to not clash with existing platform icons and add labels to avoid ambiguity.	

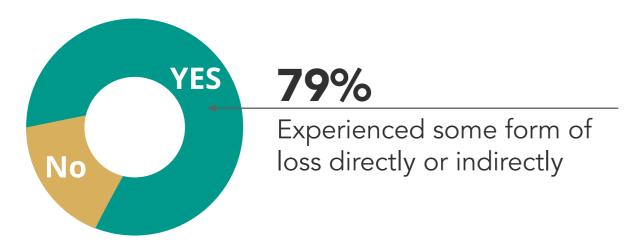
## **Primary Research**



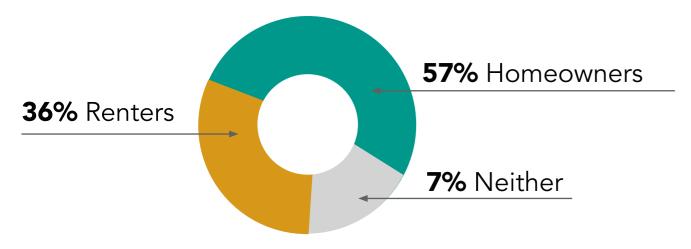


## **Key Survey Findings**

Have you or anyone you know experienced property damage/loss? (Due to fire, water, theft or other reasons.)



Are you a homeowner or renter?



Do you have any of these experiences regarding your belongings?

- 46% Regularly search for belongings in the home
- 11% Considering renting a storage unit
- 18% Duplicates (and triplicates) of things
- 32% Difficulty keeping inventory of belongings
- 21% Stressed from keeping track of belongings
- 14% Moved a while back but still not done unpacking
- 11% Other Issues
- 32% Feel well organized with their home inventory\*

<sup>\*</sup>Few of the participants from the 32% who felt they were well organized with their home inventory also stated that they had issues. Some of the reasons for this anomaly were revealed in user interviews.

## **Interview Insights**

### People feel they are organized yet struggled with some spaces or items

"I use an app for my books to scan the ISBN. Wish I had something like that for my other home items"

# Multiple household members contribute to tracking home inventory

"My partner loves cooking and takes care of the kitchen items so it's well organized"
"My kids don't lose things but still need my help to find some of their stuff"

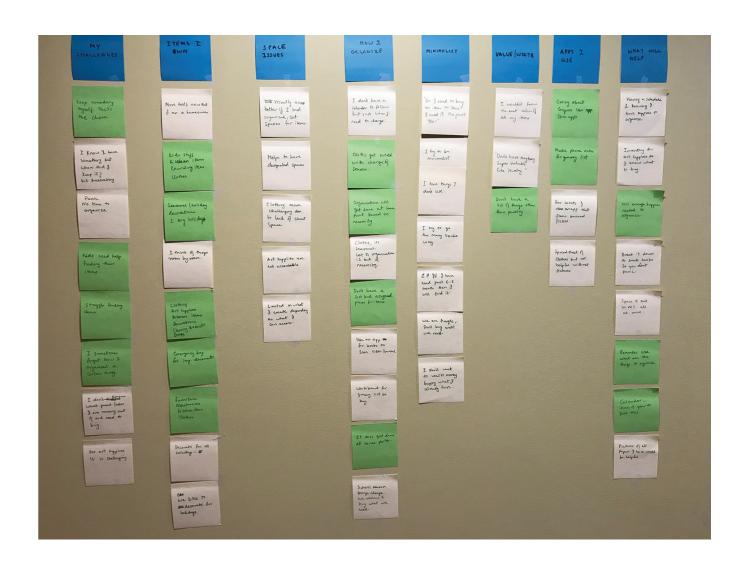
# Participants **underestimated total number** of belongings and disregarded the small items

On average, people have <u>around \$15,000 worth of items in their wardrobe</u> at any given time. Average U.S. household has over <u>50 unused items worth</u> \$3100 according to eBay/Nielsen survey.

# Interviewees had **difficulty remembering where to find an item** if it was more than 6-8 months since it was last used

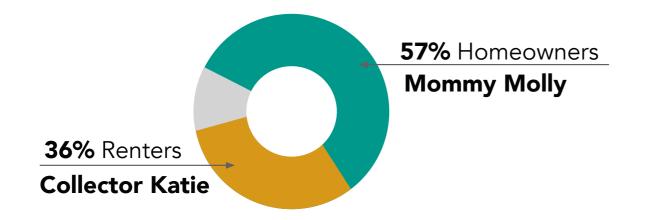
"I know I have this thing but where did I keep it? It's a bit frustrating"

"I organize things and over time forget how I organized a certain thing"



#### **Personas**

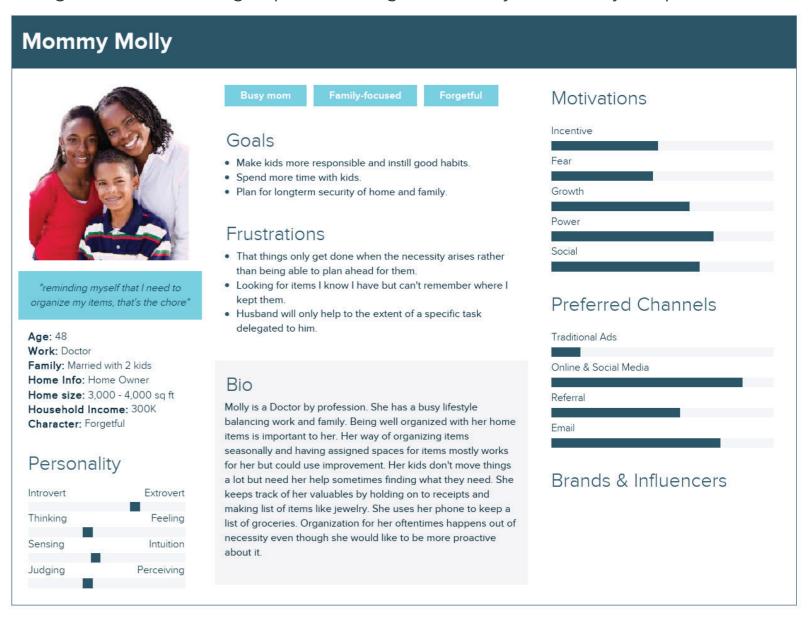
I considered home ownership as a key demographic for my personas as this criteria would help me understand the audience that is most invested in their belongings (seeing them as personal assets).



Collector Katie is a renter and represents 36% of my target users. She is a librarian and collects books. She is also an artist who loves to paint and has a huge collection of art supplies. She struggles to keep track of these supplies.



**Mommy Molly represents 57% of my target users who are homeowners.** She is married and a busy working mom trying to balance her home and work life. She wants to teach her kids good values like being responsible. Long term security of her family is important to her.



## **Customer Journey Map**

Customer Journey Mapping helped uncover current and future opportunities of the product.

Scenario: Mommy Molly finds her basement is damaged due to water leak.

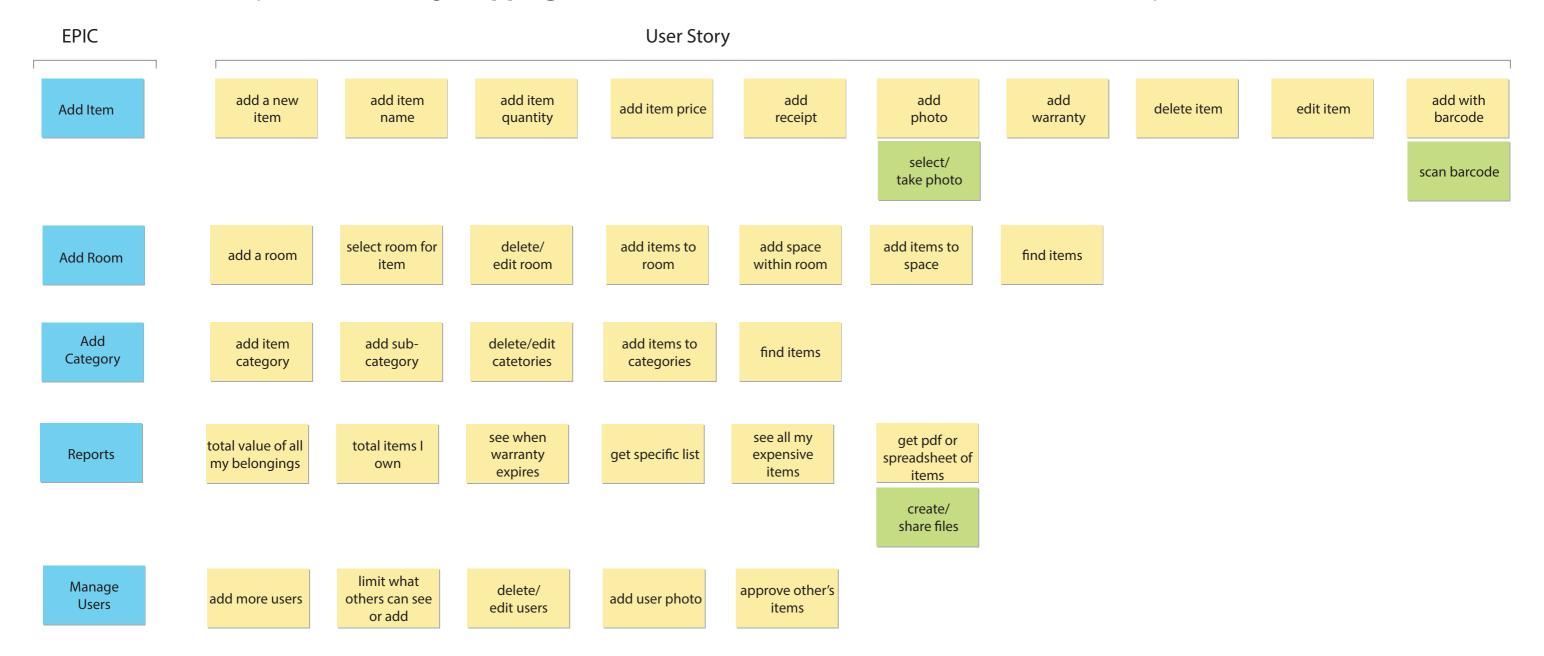
Phases	Discover Damage	Contact Insurance	Damage Walkthrough	Damage Evaluation	Resolution	Claim Closed
Actions	Looking at all the damage Asking kids to not walk into the flooded basement.  Looking for insurance contact information	Talks to insurance company Meets the insurance adjuster Go through the papers the adjustor gave	Walking through the basement Picking items that are all wet Going through more damaged items	Meet the subcontractor for contents inventory  Watch the content inventory people going through damaged items before leaving for work.  Looking at the basement after coming from work.	Looking quickly through the damaged items list emailed by insurance.  Searching home for items missing on the list  Looking thoroughly through the damaged items list shared by insurance.  Creating a list of items that are missing from the list  Looking into old online orders and receipts for original cost of items  Sending missing items list to property inspector  Receive list of some additional missing item added to the claim	Looking at the final claim payment.  Looking through the final inventory list of the claim.
Thoughts	How will I deal with all this loss? This doesn't look safe. Need to make sure kids are kept away.  What number do I need to call? Am I even covered for all this damage?	They seem helpful I am glad I will be covered for all the damage Looks like I will get paid in parts	My kids art is ruined.  Oh! my childhood photos are ruined.  I wonder if this painting can be restored.	Sounds like they will do a thorough job.  They are not keeping proper record before throwing items. I don't have time to keep track of them.  They cleared a lot of things. Not sure what they kept and what they threw away	I thought my spare blender was in the basement. Why is it not on this list?  I wonder what else is not part of the record?  I am so sure I had my blender in the basement  So many things are missing. I thought insurance was going to be thorough with listing my damaged items.  I wish I had a record of all my items. Where did I buy that end table from? How much did it cost?  This is taking so much time. I am exhausted. This is all the information I have. Hope they consider these as items I owned.  That table was way more expensive than what they are paying. I need to check all my other expensive items.	I am glad this is over.  Just have to bear the loss.  Don't even know how much I lost. I wish I was prepared for this process
Emotions	Worried Dispair	Hopeful Disappointed	Unsure	Hopeful Skeptical	Surprised Confused Exhausted Frustrated	Dismayed Dissappoin
Channels	Phone Internet	Person Printed material Website		Person	Email Pen and Paper Computer Receipts and Records Person	Email
Opportunities (MVP or Potential Features)	<ul> <li>Provide safety steps to follow when dealing with property damage.</li> <li>Store home insurance details and contact info.</li> </ul>	Provide basic information to understand what to expect from the meeting and what questions to ask the adjustor.	Provide cloude storage of pictures (MVP)	<ul> <li>Store photos and videos of rooms. (MVP)</li> <li>Provide alerts to update room photos annually/after some period.</li> </ul>	<ul> <li>Store information about room/location of an item (MVP)</li> <li>Search for items (MVP)</li> <li>Store pictures, purchase details and receipts (MVP)</li> <li>Sync across devices to enable access to data on bigger screens (MVP)</li> <li>Generate spradsheet of items and their details (MVP)</li> <li>Share data/items list (MVP)</li> <li>Categorize items by type and value (high value items) (MVP)</li> </ul>	<ul> <li>Calculate value of items (N</li> <li>Choose custom list of item get their value. (MVP)</li> </ul>

## **Design & Ideate**



#### **User Stories**

Equipped with the discoveries made from the customer journey mapping, I developed user stories for the tasks users need/want to accomplish. **User story mapping** exercise started to reveal a structure for the site map.



#### **User Flows**

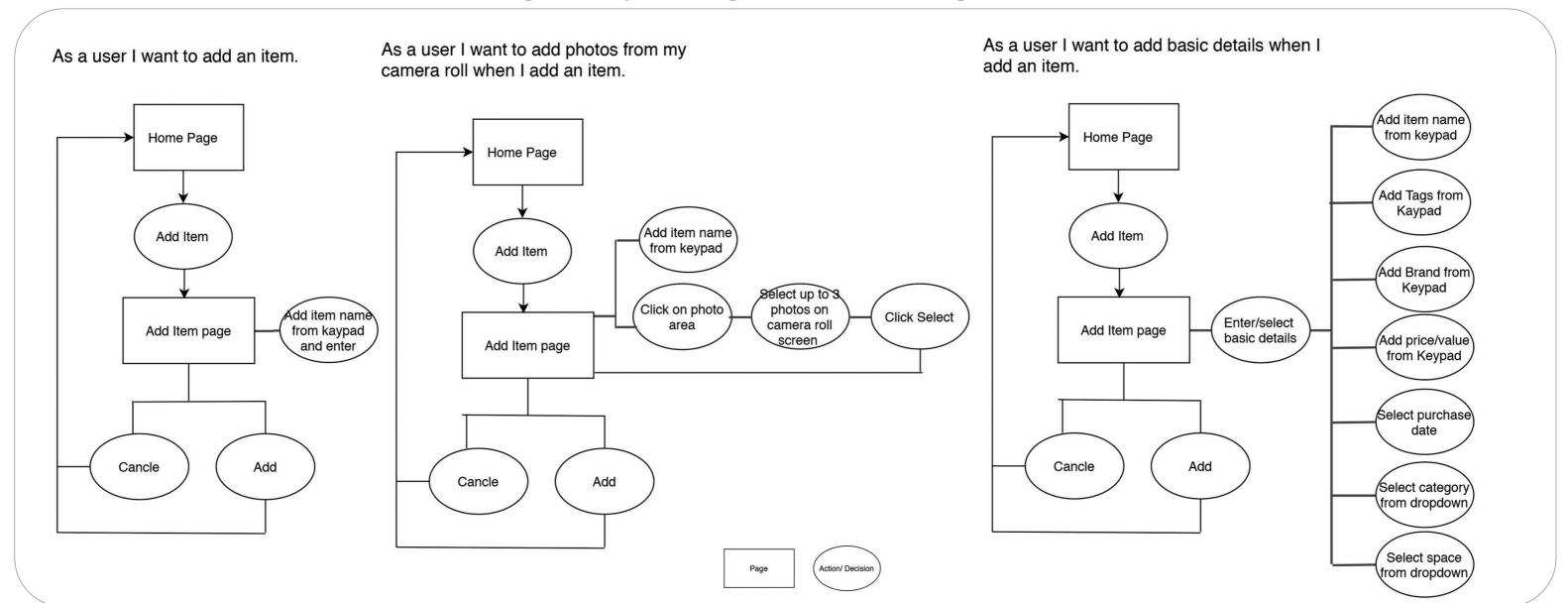
I created user flows from the user stories, combining flows of tasks falling under similar themes. **Red routes** (listed below) emerged from this process, showing critical paths users will take to accomplish essential tasks.

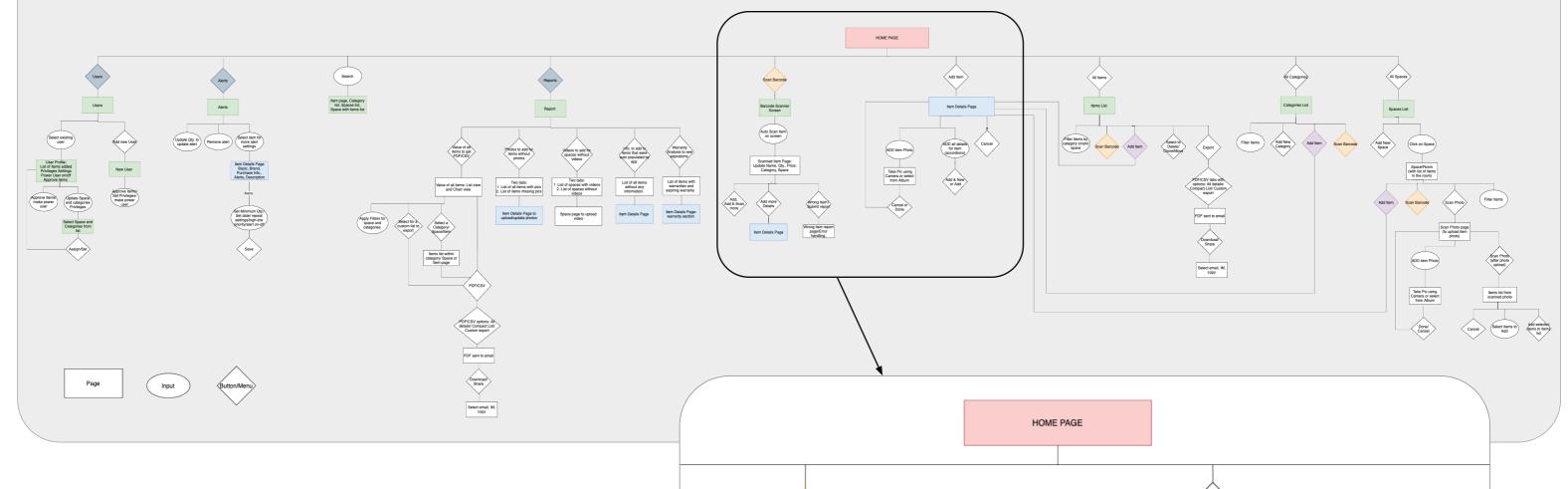
Adding Item

Categories/Spaces

Generating Reports

#### Progressively building on user flows using user stories

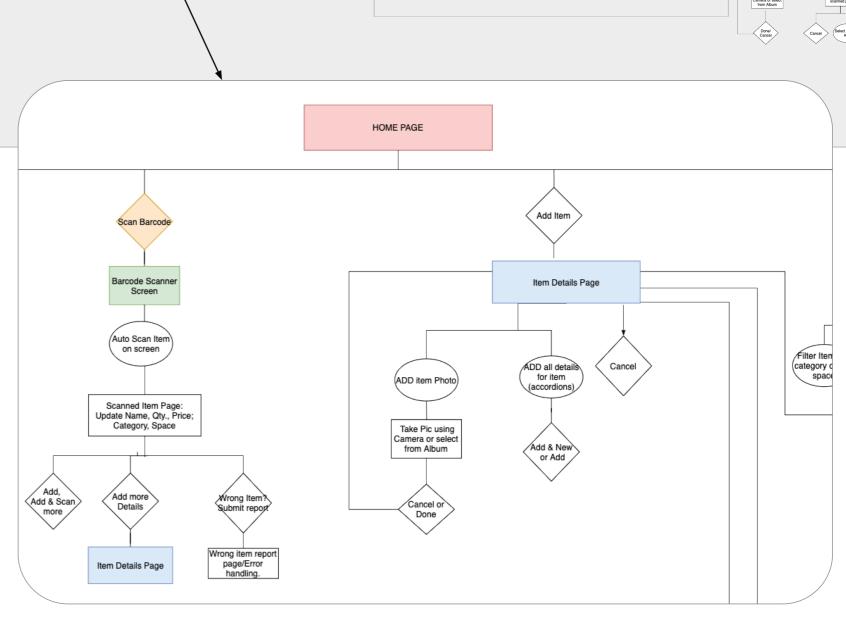




## **Information Architecture**

After translating the user flows onto the information architecture I noticed that:

- A user will navigate to the 'Item Details' screen from several different flows like Items, Space, Category, Reports, and Search. It is important to maintain a seamless experience of this "Item Details" screen.
- The process of adding an item by scanning a barcode involved few additional steps that could be **simplified to** reduce the number of clicks for the user.



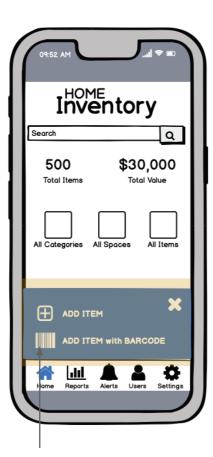
## **Sketches**

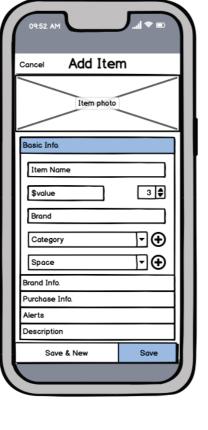
I started sketching the screens for the critical flows and iterated through many design options quickly with these low fidelity sketches. This process helped to fix a few inconsistencies while looking at these screens as a whole.

#### **Home & Adding Items**

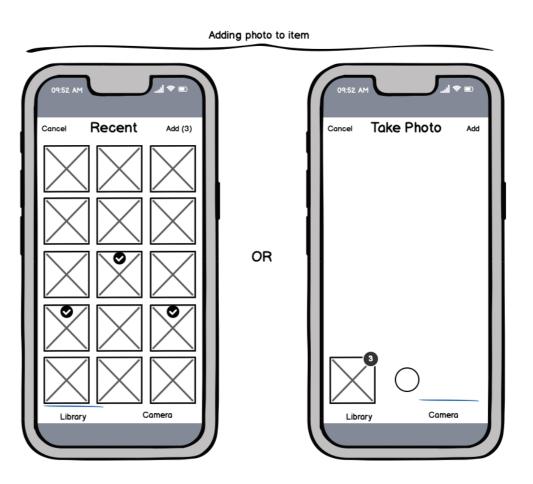
I started with the home page as a dashboard giving access to all the key information but later removed total value as it is sensitive information that should not show up right at the launch of the app.

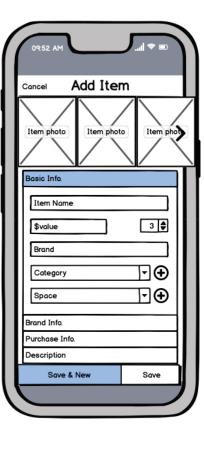




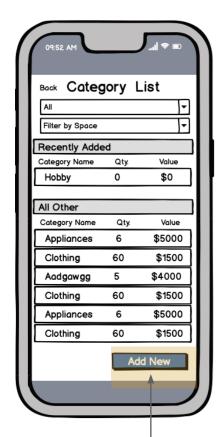


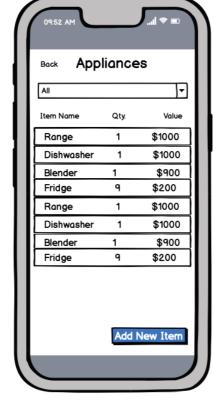
I noticed that since the 'Add Item' flow will be frequently used, its button being upfront on the screen will reduce additional click for this process.

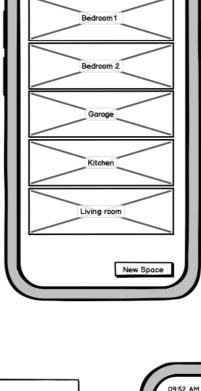




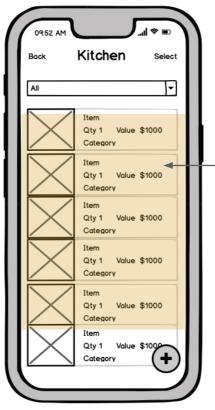
#### **Categories and Spaces**





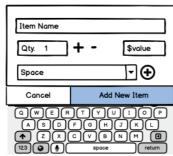


Spaces

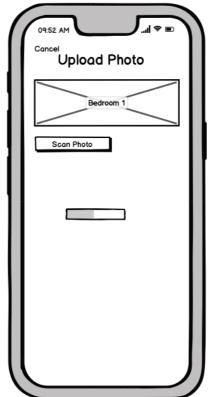


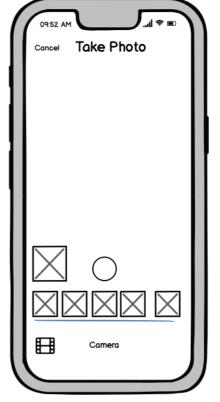
The Items list on the Space page can have additional views to accommodate more items on the screen (with maybe showing less details).

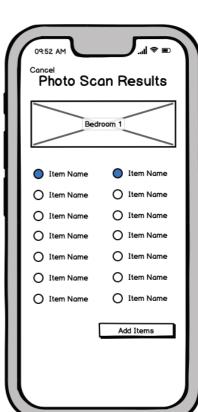
Scan a photo to identify items and pick identified items to add to items list.

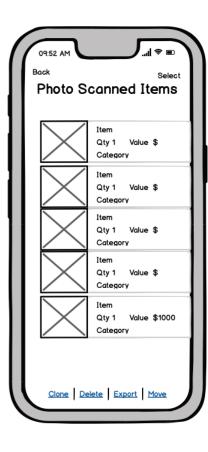


Adding a new item, category, space appears on many screens/flows and needs to be consistent in terms of behavior and UI.



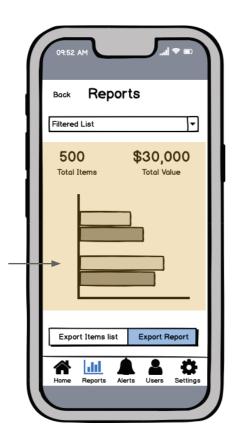


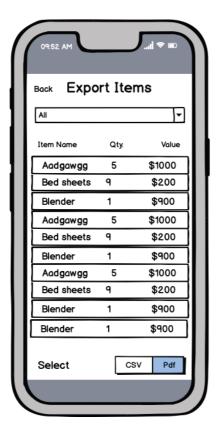




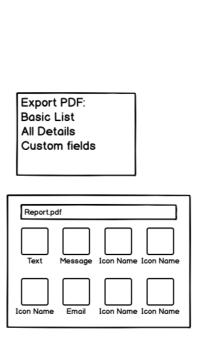
More information on analysis of items can be provided on the 'Reports' page apart from just total value and total items.



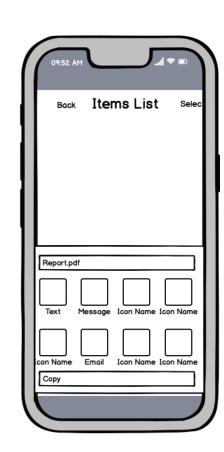


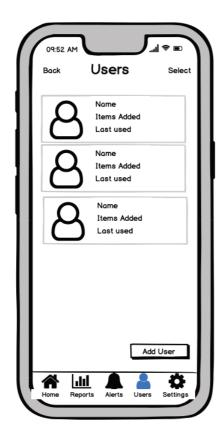




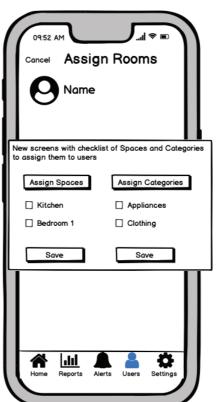


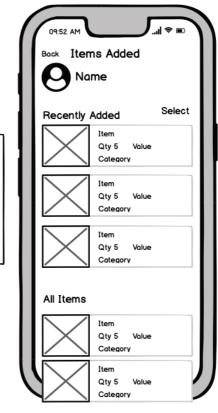


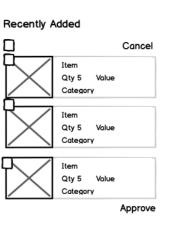








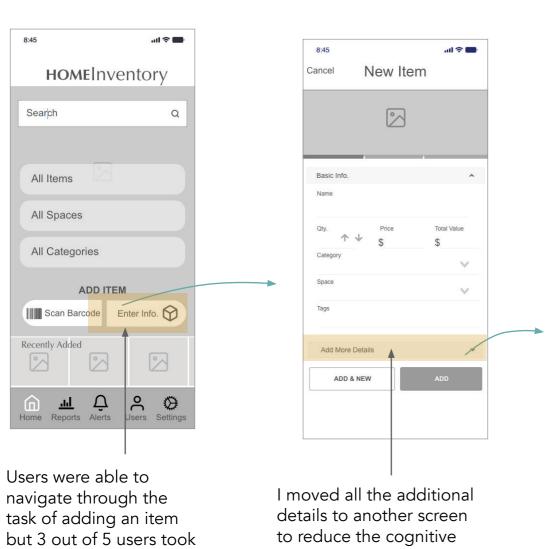




**Users** 

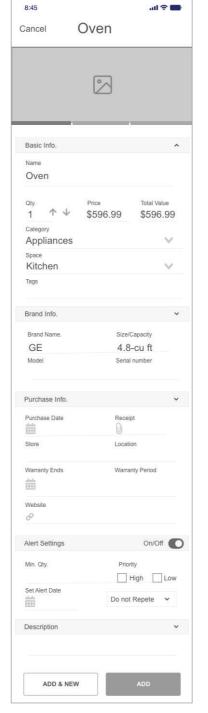
## **Guerilla Testing**

I conducted a guerrilla usability test of the red routes by sharing a clickable prototype created in InVision with designs from Adobe XD. I tested with 3 participants during a gathering and 2 family members. The goal was to discover potential issues by seeing if users are able to navigate through the app and also get some initial feedback on the interface design.

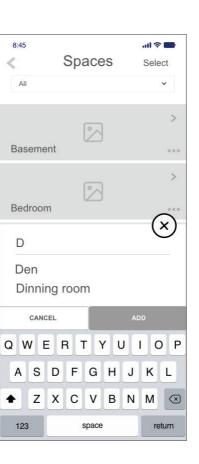


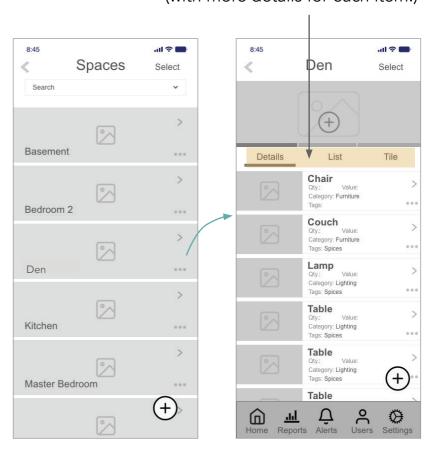
load so users see few basic some time noticing the fields to enter data and can 'Enter Info.' button. choose to add more details

on the next screen.

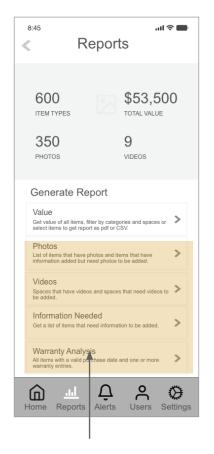


I added additional views for the items being displayed in a space so viewers can choose to see more items or less items (with more details for each item.)

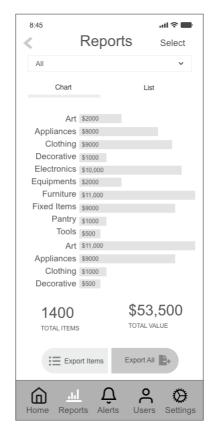




The filter was a bit limiting and needed additional sorting to quickly arrive at a custom list of items.

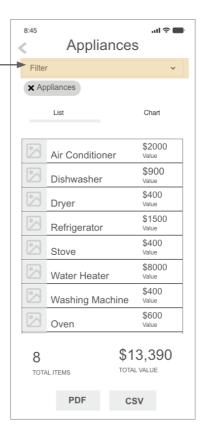


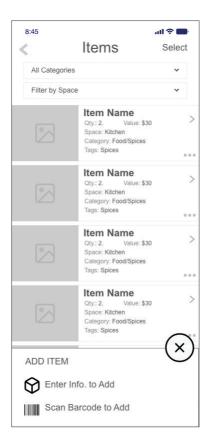


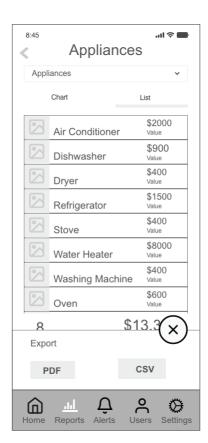


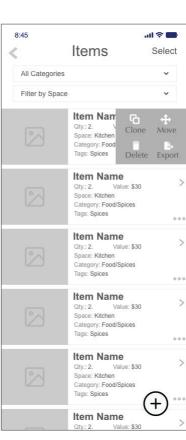
I added more reporting features like:

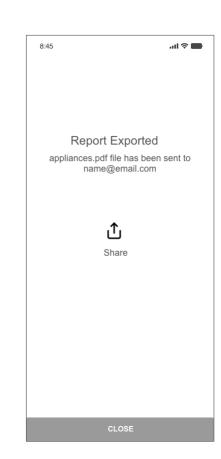
- Assessing items that have warranties
- Reviewing items/spaces to see the ones that the user did not add photos/videos during initial adding.

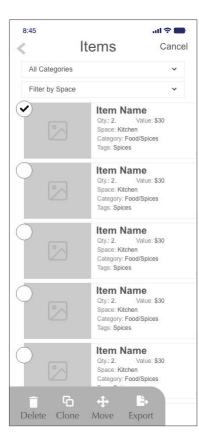






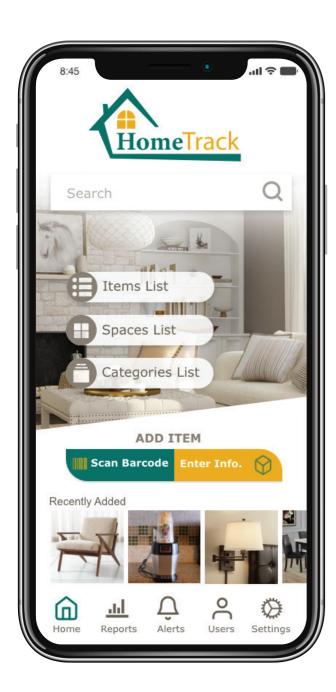


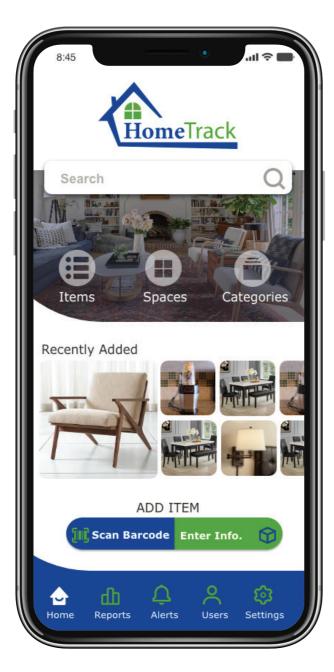


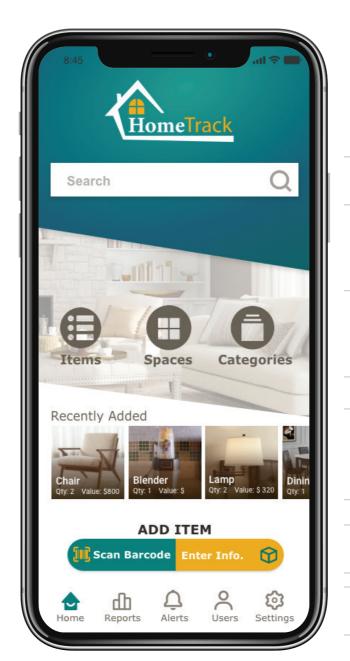


## **Home Designs**

Three Home screen design options below incorporated improvements revealed through guerilla testing. Quick testing of the screens showed that 4 out of 5 participants preferred the third design.







**Search bar:** Survey results showed that 46% of participants had trouble finding items and user interviews also revealed this as a recurring issue.

**Icons:** User flows and Information Architecture revealed that there are several paths for an action like adding an item. Items, Spaces and Categories help users easily take the path that works best for them thus providing flexibility and efficiency of use.

**Recently Added:** Users can quickly access what they added last and update or edit details they missed.

**Adding Items:** The 'Add Item' buttons are made prominent using design techniques like color, contrast and white space.

**Users:** Interview insights revealed that a household needed shared usage of an inventory system.

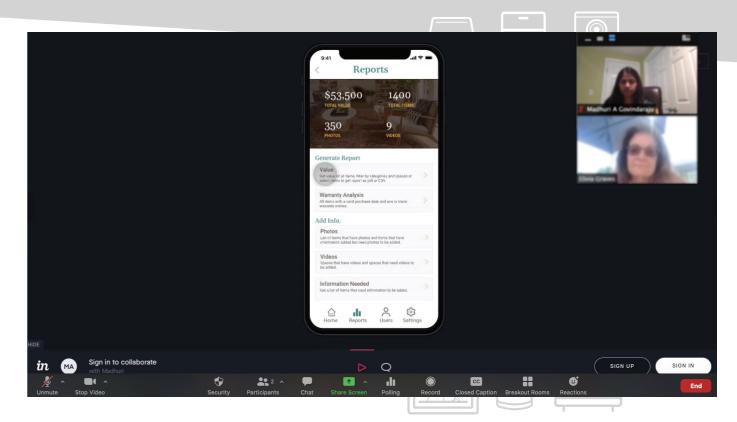


### **Round One**

I made a plan to test my designs and created a prototype in InVision. All testing was done remotely using Zoom were participants shared their screen while going through the tasks.

#### **Key Findings**

- On the Home screen users had some difficulty understanding some of the text namely: Spaces, Recently Added, and Alerts.
- On the 'Reports' page "Item Types' was difficult to understand. Amongst all these, Alerts was the most ambiguous for all users.
- Users wanted to add some description to items while adding basic information.
- Users wanted to see more items when viewing a list of items than seeing less items with more details.





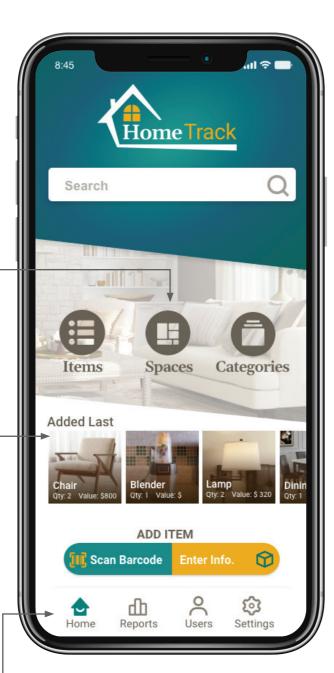
#### **Spaces instead of Rooms**

I choose the term 'spaces' instead of 'rooms' that some users prefered as:

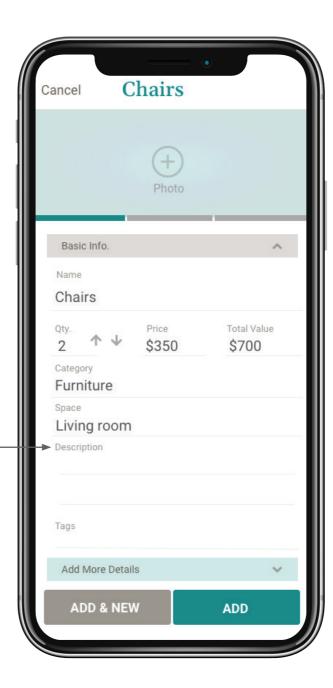
- The naming did not cause any issue though with the user flow of navigating to a room.
- 'Spaces' is still relatable and has the advantage of covering areas that might not be set rooms in a house but for certain purposes (like a lounge near staircase or an office nook.)
- I tweaked the icon to look more like a floorplan.

#### Added Last

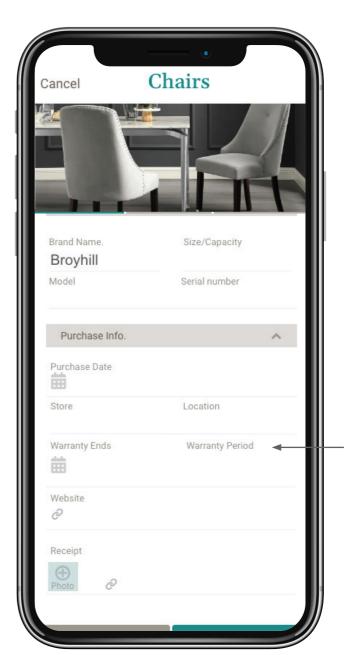
One user pointed out that 'Recently Added' will display an item they added a few months back as recent too, if that was when the user last added an item. I changed the title to 'Added Last' to accommodate the timeframe of usage.



**Alerts** was earlier part of the MVP (on the tab bar) but needs additional user research to provide more value. Testing already revealed that it would be a useful feature to inform users of things like warranty expirations.

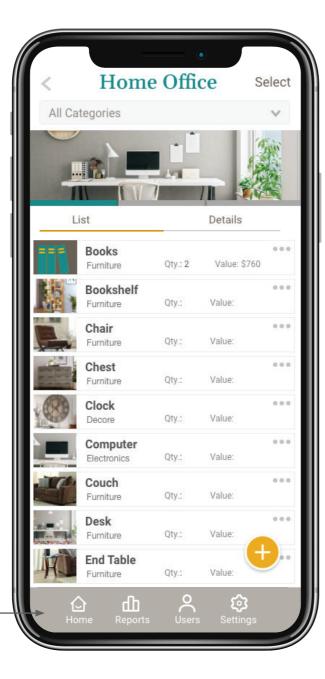


I added 'Description' (that was earlier part of additional details) to 'Basic Info' as users wanted to add custom details on this screen itself.



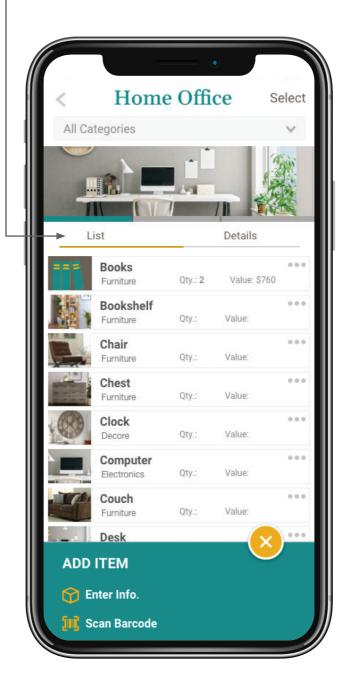
Users liked all the additional information they could add to an item, especially warranty details.

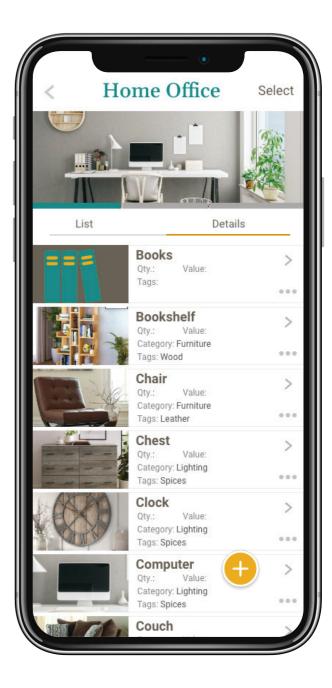




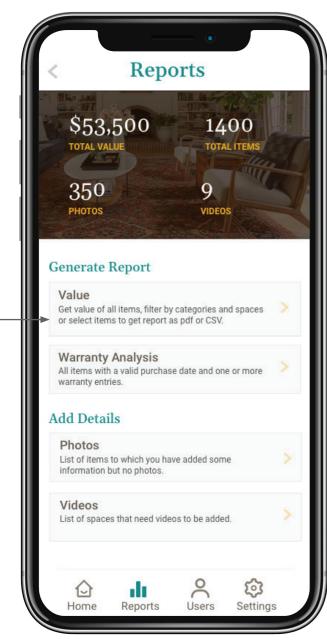
Tab bar helps with ease of navigation and disappears on scroll for seamless list view.

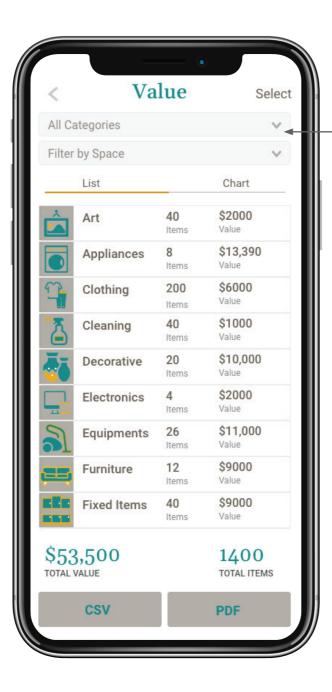
4 out of 5 users wanted to see the list view first on these space/room screens. Also, most users did not find the 'Tile' view to be very useful. I removed it as 'List' and 'Details' provided enough flexibility.



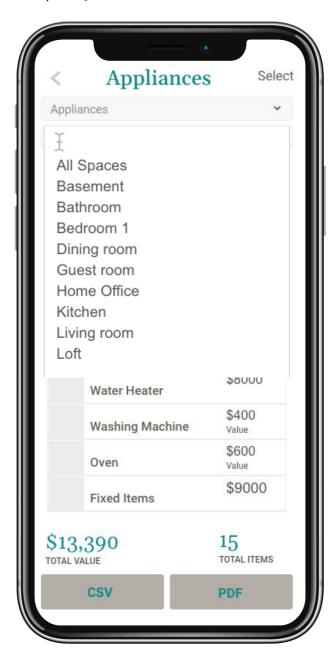


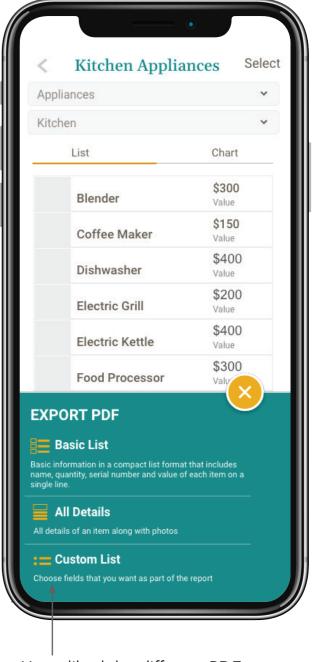
Users were most interested in Value and Warranty information so I separated those from other items.





Users found the double filter option with categories and spaces very useful and liked how it helped to quickly arrive at a custom list.





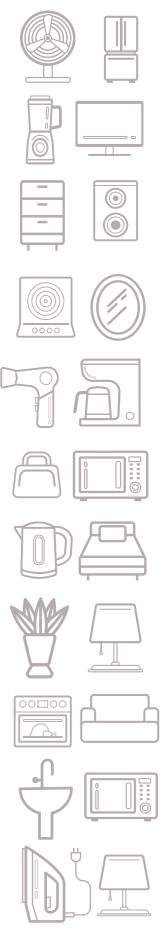
Users liked the different PDF options to choose the amount of details they need in their report.

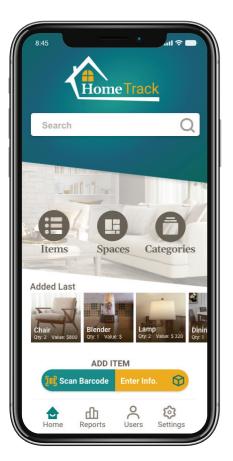
## **Round Two**

I conducted a second round of usability testing with 4 participants remotely on Zoom. I made changes to the prototype before this round of testing incorporating feedback from the first round of testing. The objective of this round was to see if the updates helped resolve the earlier issues.

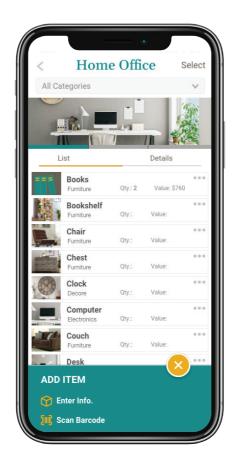
#### **Summary**

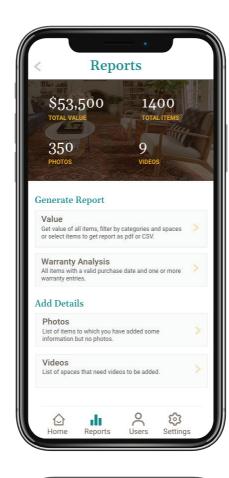
- The changes made after the first round of testing helped resolve all the issues from that usability testing.
- Users were satisfied with all the details they could add to an item. Also, they really liked the filter feature (by category and space) to arrive at a custom list.
- One user expressed concern about 'Reports' having sensitive information on phone. Reports can be password protected and admin (main user) can set privileges so other users are not able to access it.

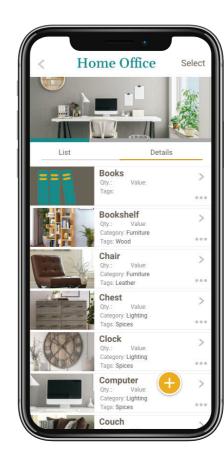


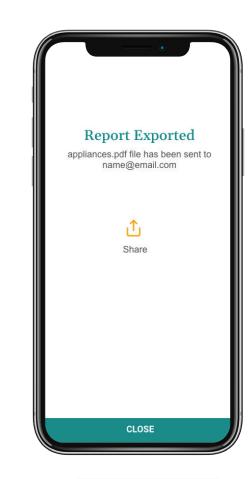


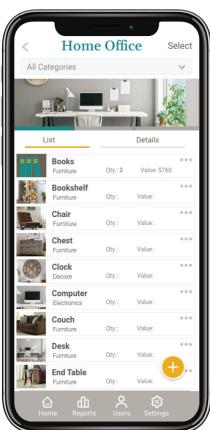


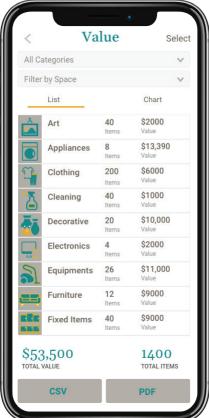


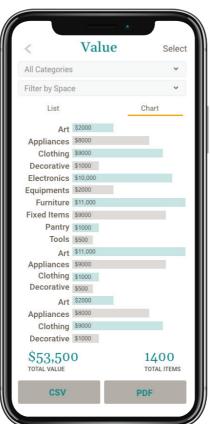


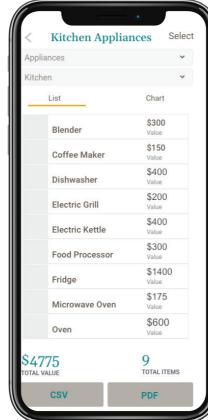


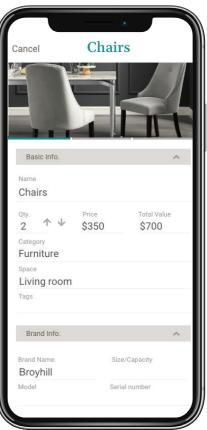


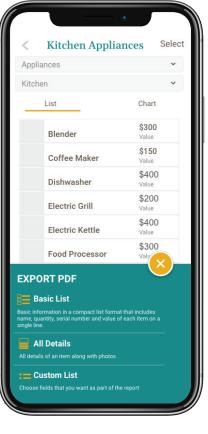












# **Final Thoughts**



### **About the Product**

- Competitors products are mainly targeted towards businesses and offer the same functionality for home use without customizing for the needs of homeowners. These products seem too complex for home use. So, I wanted to focus primarily on the needs of users managing their personal belongings.
- User interviews revealed that the product needs to cater to a whole household and not just an individual. These findings meant that apart from the primary audience, there will be younger and older users that need to be considered during future usability tests.
- While mapping out the customer journey, I noticed that it is essential to access this product on multiple devices. The two important tasks of the product are entering data and generating lists/reports of items. A phone app would work well for the former especially to scan items and add photos whereas bigger screens will be very useful for reviewing inventory data.



## **Beyond MVP**



## Planning home organization tasks by creating schedules

During user interviews all participants said that they would like to be more organized but only get to sorting and organizing home items when the need arises like looking into clothes during season change. They found home organization a daunting process. A planning and scheduling feature will help users create tasks and get reminders to keep their inventory up-to-date.



Alerts for annual home maintenance and inventory check Some of the home items need maintenance work that can be managed by creating alerts. Alerts can also be created for frequently used items to check for low quantity.



## Planning and managing remodelling projects

Remodelling projects can sometimes go out of control especially for busy households already juggling several activities. The app can provide a general overview to plan home updates and help document receipts, photos, timeline and budget for home improvement projects.

## **Design Learnings**

- At first I struggled to figure out what features to exclude for the MVP (minimum viable product) as everything seemed very useful. User research helped me to break this list into features critical for the core functionality and the ones that would be nice to have.
- My interview locations were a mix of at-home and formal outdoor settings. I noticed how surroundings can make an impact in gathering insightful information as people who were interviewed at their own home shared more details not just about themselves and their belongings but also about habits of family members.
- Apart from keeping their belongings organized, it was challenging for people to locate items or remember if they owned an item over time. While going through my claim process of accounting for my belongings, the most difficult part was relying solely on my memory to list items and their details. In my design, along with 'Search' and adding custom tags to locate items, I also added filter and sort options to generate a custom list of belongings thereby reducing time and effort in tracking items.

## Thank You!

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Web: <u>mag-designs.net</u>

LinkedIn: <u>madhuri-govindaraju</u>































## **Appendix**

#### **Problem Statement Revision**

#### **Previous Version**

People own a large number of items and it only keeps growing over time. They seldom keep track of everything they own and most likely would underestimate the value/ quantity of their belongings. I wanted to explore this problem of the tedious process of keeping track of one's belongings.

#### **Revised Version**

People own thousands of items and their belongings keep growing over time. With about 300,000 items in an average american home, we don't have the mental capacity to keep track or account for all our belongings. Data also shows that every 1 in 20 homes has an insurance claim. So, underestimating the value/quantity of one's possessions can lead to severe monetary loss in the event of property damage.

#### **Additional Secondary Research**

#### About stuff people own

21 Surprising Statistics That Reveal How Much Stuff We Actually Own (The Wall Street Journal)

Global retail sales were projected to amount to around 30 trillion U.S. dollars by 2023, up from approximately 23 trillion U.S. dollars in 2017 (Statista)

How Much Stuff Do We Have? The Results Are In (Simple Family Finance)

#### Recognizing objects from photos that the app could use to enter items

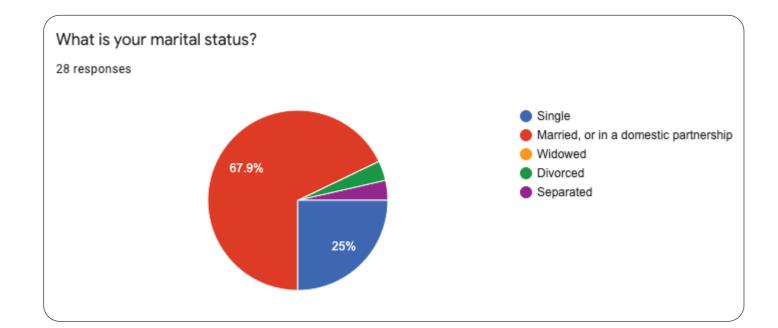
How To Use Google Lens To Identify Objects In Photos

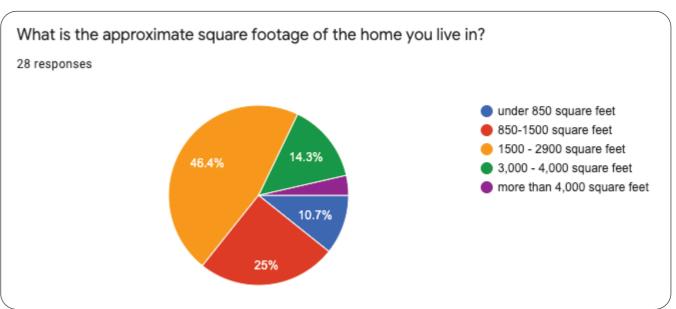
Visual Search of objects

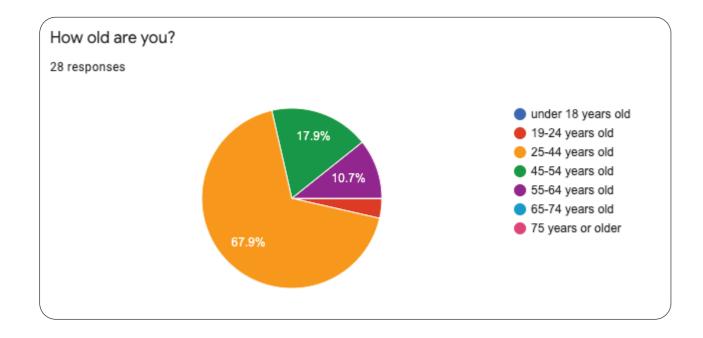
Website that will identify any image you throw at it

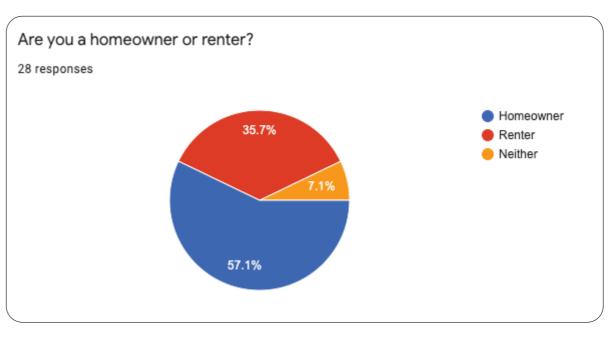
8 Nifty Apps to Identify Anything Using Your Phone's Camera

### **Survey Results**

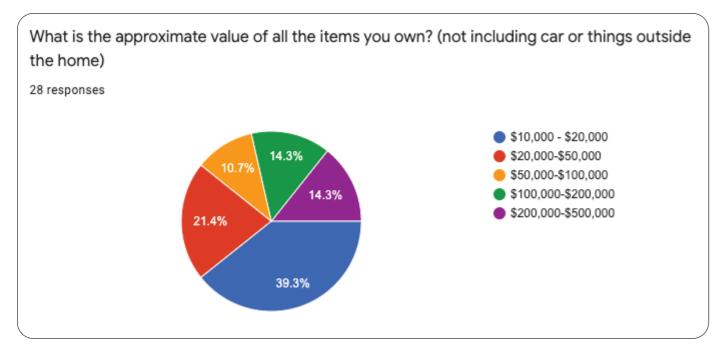


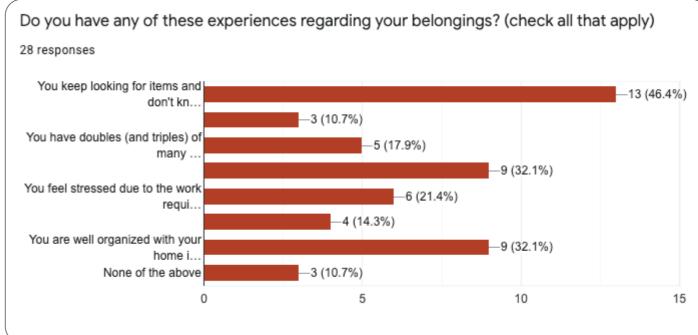


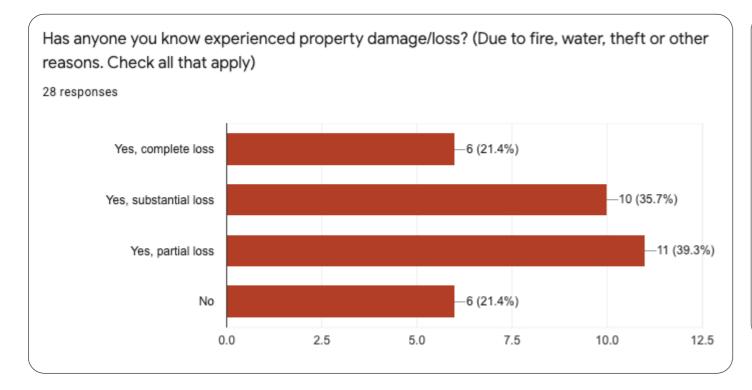


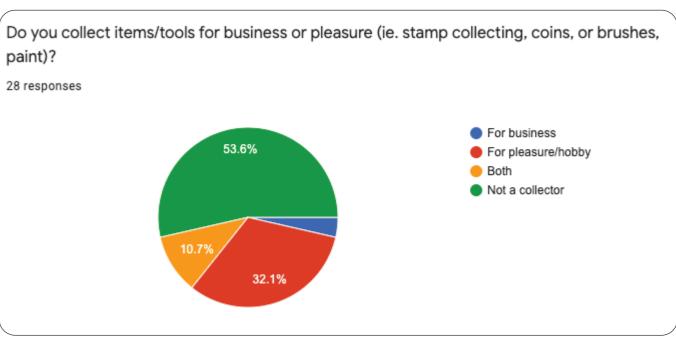


#### **Survey Results**









#### **User Interview Notes**

#### Smith J.

3-11-2020 at 11 am
Single, homeowner
Moved from an apartment to a 2 story cape
cod

----

Insightful quotes

"Things I own are furniture, electronics (laptop), clothing, music stuff. Don't have anything super valuable like jewelry."

"I have things I don't use. I have a multi-function blender, do I need an instapot? I reflect on if I have used it in the past year"

----

More notes

#### Bailey S.

3-12- 2020 at 3:30 pm Married with kids, homeowner Moved into 2 story house approx. 3 years from a rental home

----

Insightful quotes About organizing:

"just that I have to keep reminding myself to get it done. That's the chore I feel but it does get done at some point based on the necessity."

"Even though I put effort in organizing, I sometimes forget how I have organized things. So writing it down is probably a good idea."

----

More notes

#### Miller A.

3-13-2020 at 3 pm Renter, living with partner Moved into a 2 story house from a 2 story, 2 years back.

-----

Insightful quotes

"If I have a coupon and go to an art store, I don't know which paint, colors, markers, I am running out and need to buy. I would love some system to track my paint, paint brushes..."

"Panic, I think it is mostly time, like do I have time to organize things? It does require some thought and planning and supplies."

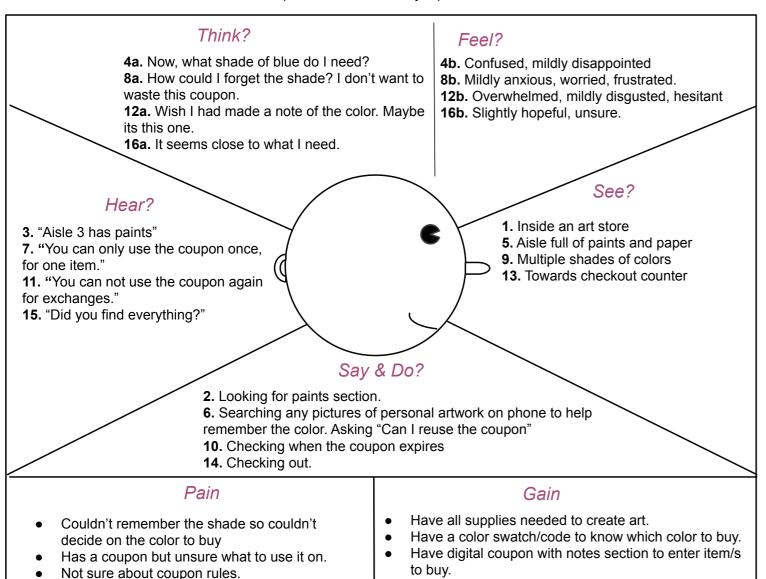
"Also, I don't want to waste money buying what I already have. Like my mom would say I need duct tape and keep buying and then later would find duct tape at 6 different places in the home."

\_\_\_\_

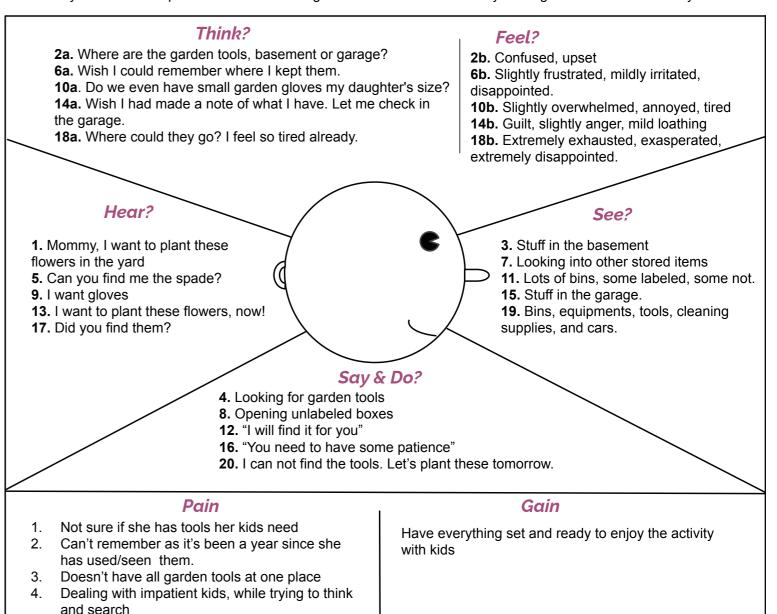
More notes

## **Empathy Maps**

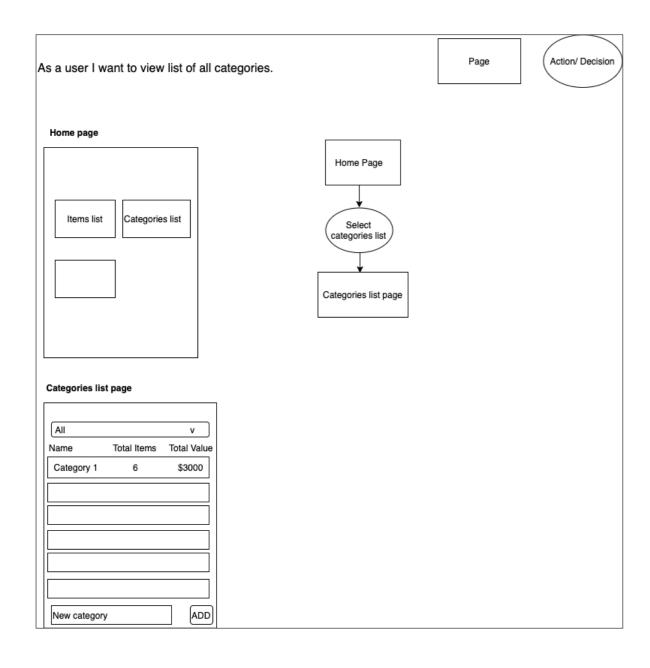
Katie visits the art store with a coupon. She wants to buy a paint but can't remember the shade.

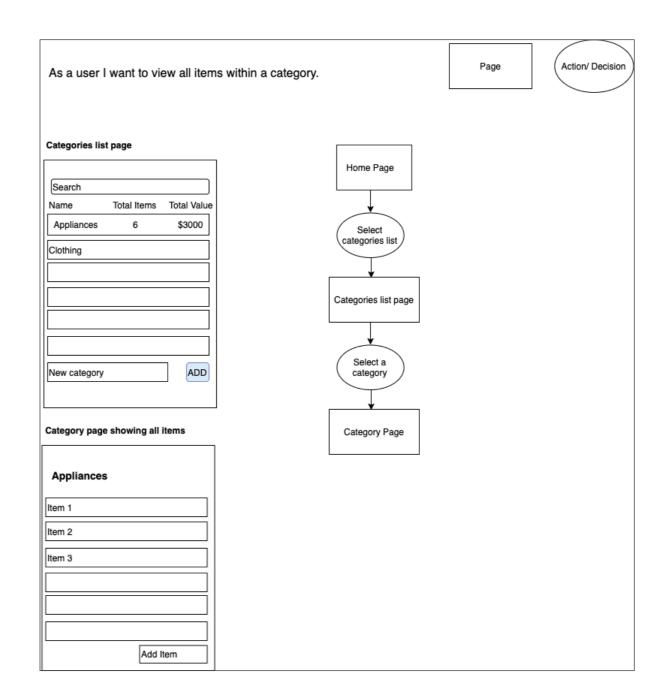


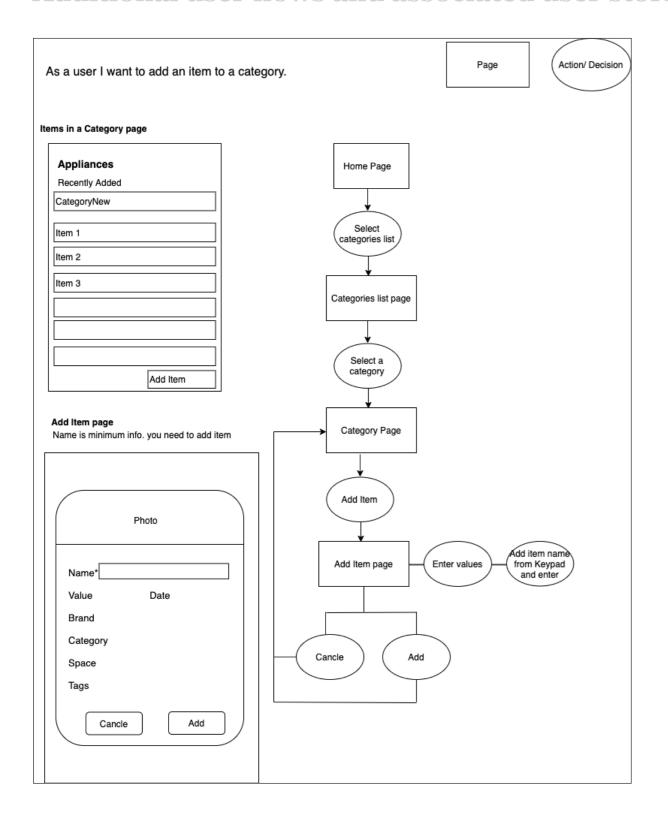
Molly's kids want to plant flowers and need garden tools. She is frantically looking for her tools from last year.

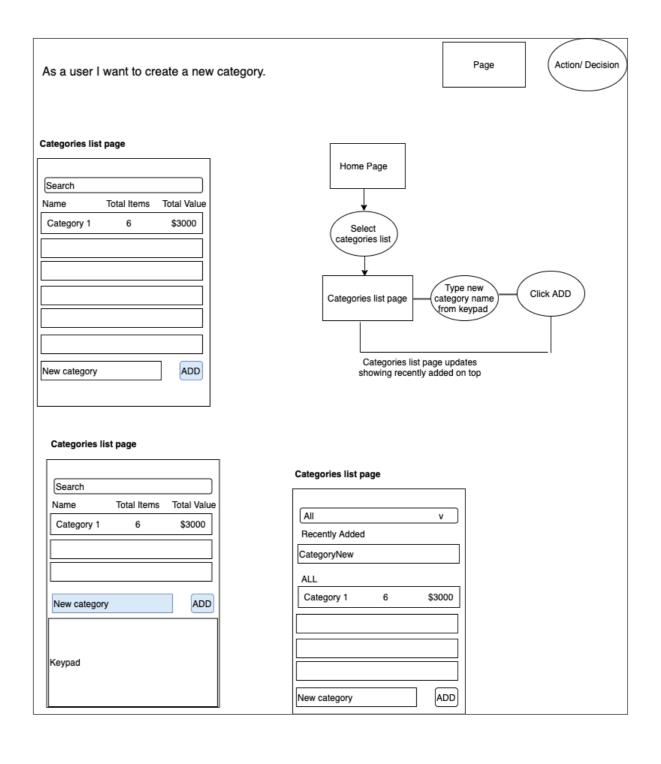


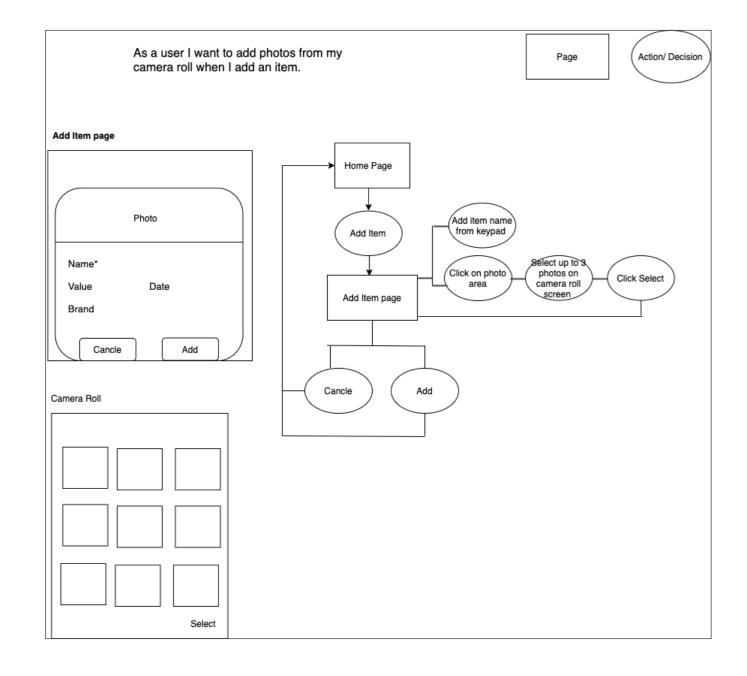
Along with creating a user flow for each of the user stories, I also draw a rough UI to guide me along the way. It helps to speed up the process of sketching later.

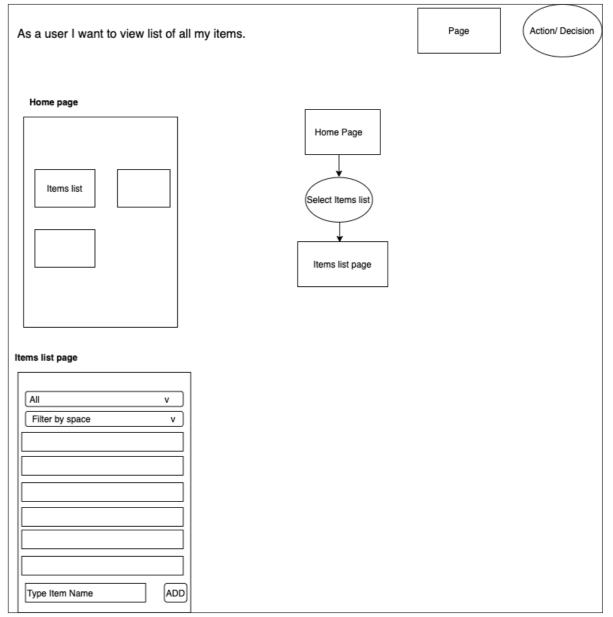


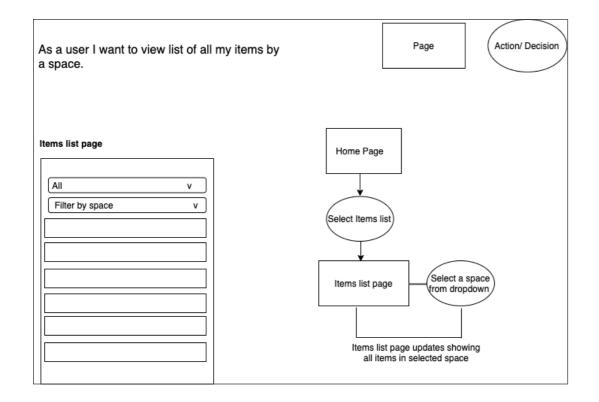


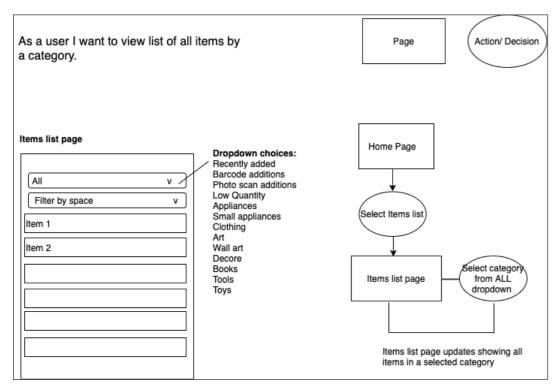


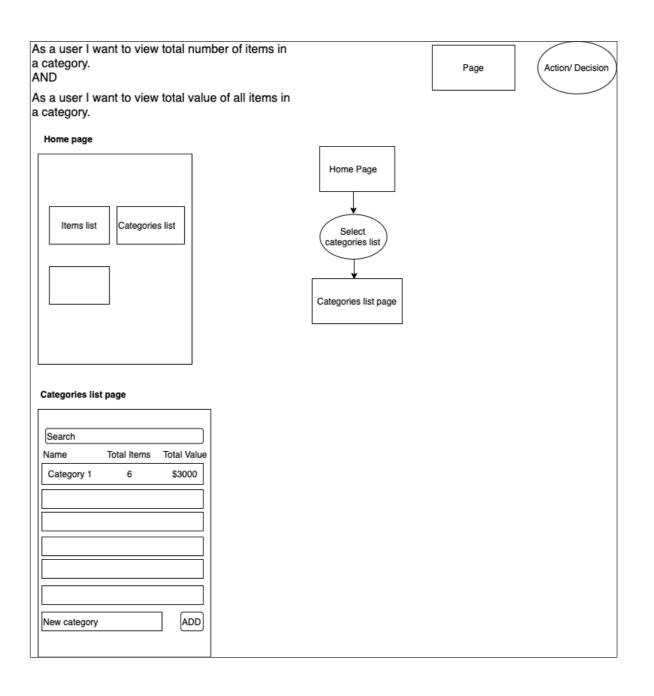




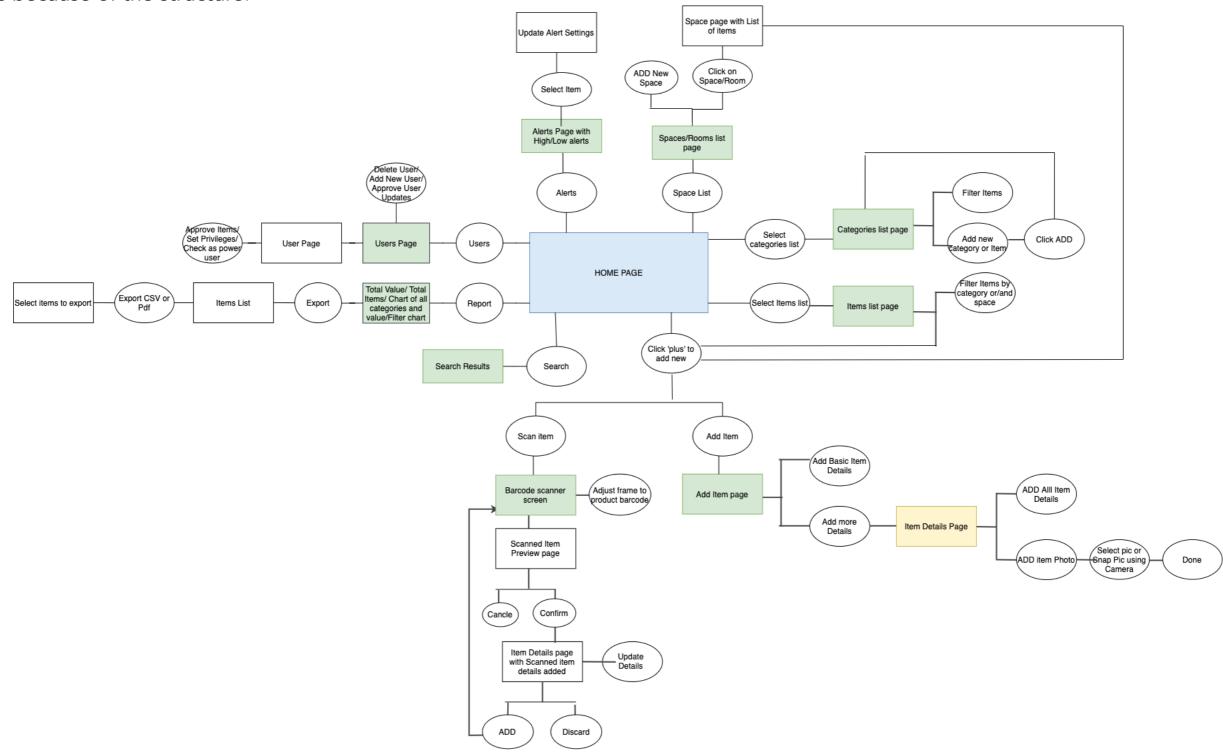


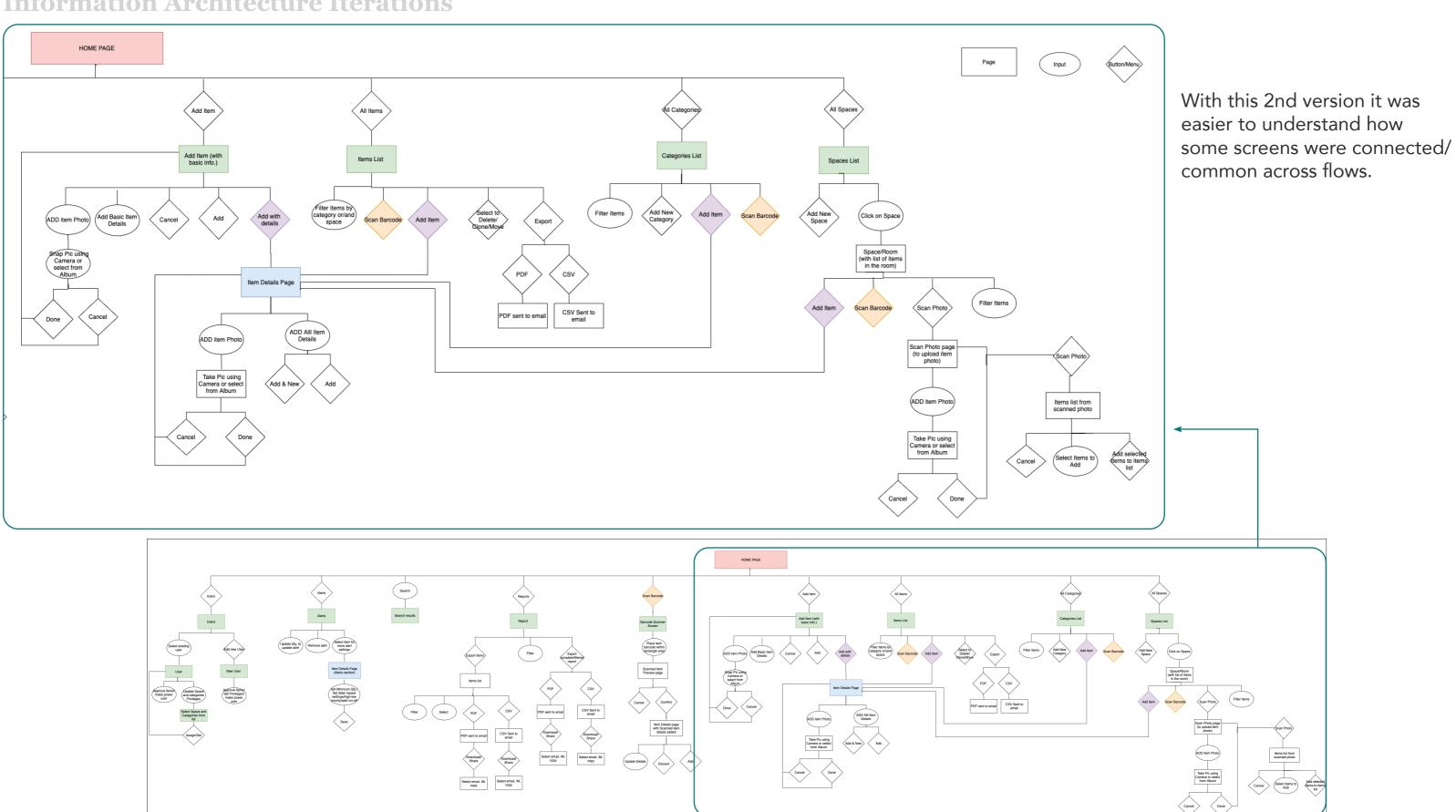






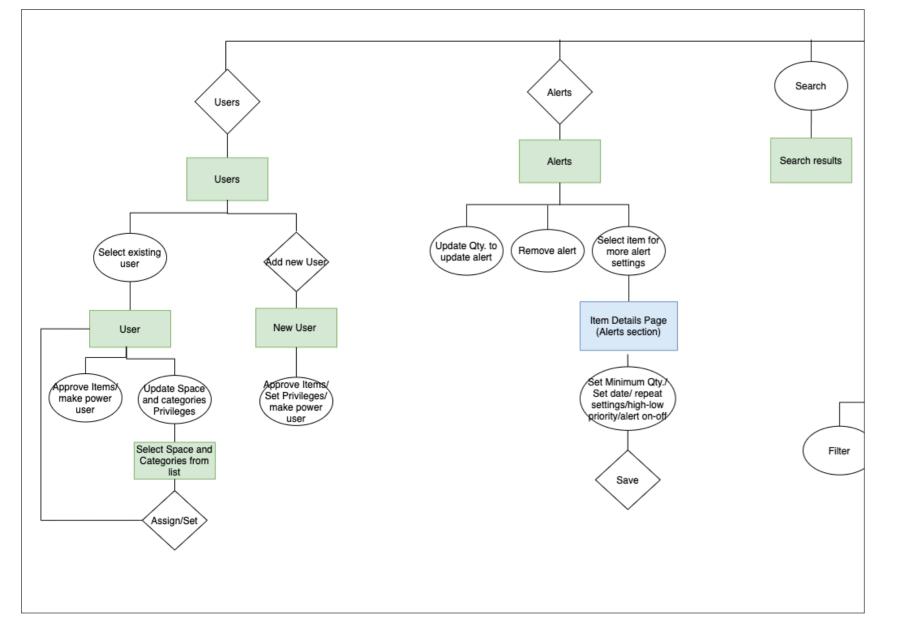
My 1st version of the IA was difficult to read especially the connection between flows because of the structure.



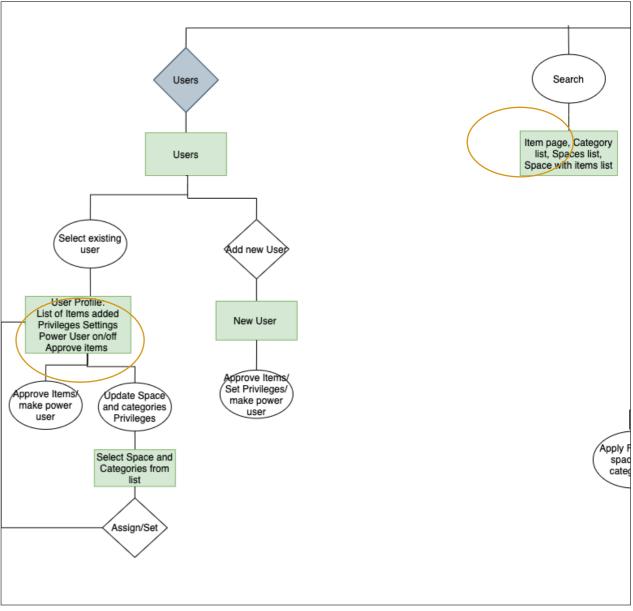


In my 3rd and final version I added more information to the pages to specify the tasks users can perform on those pages. I also removed the Alerts flow as it was not part of the MVP now.

#### IA version 2

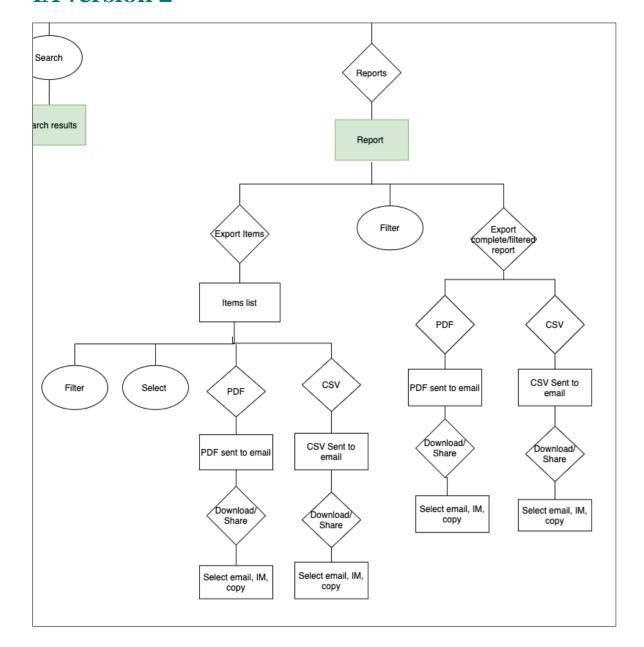


### IA version 3

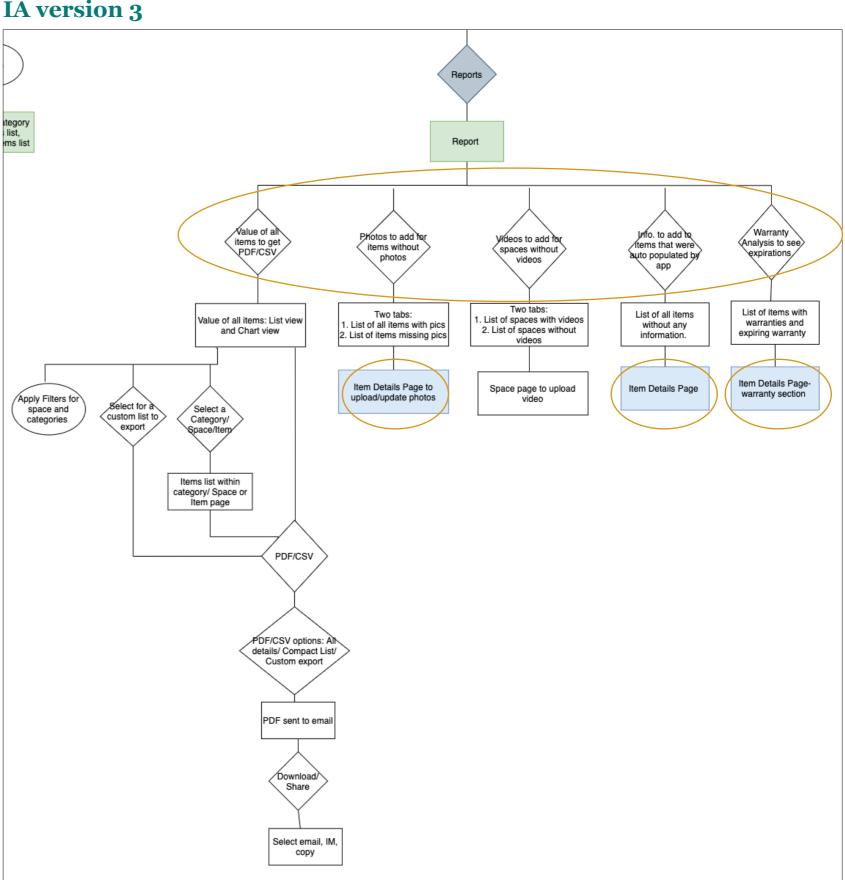


I updated the reports as I added more features to this section. I also used color to signify pages like 'Item Details' that I couldn't connect with lines but were common to the flows.

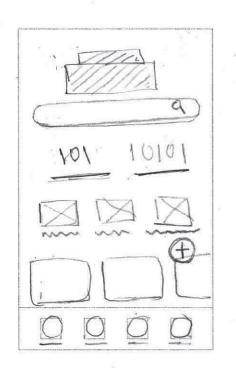
#### IA version 2

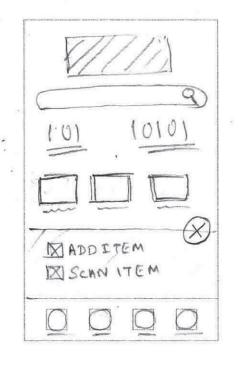


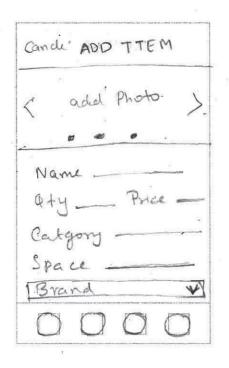
### IA version 3

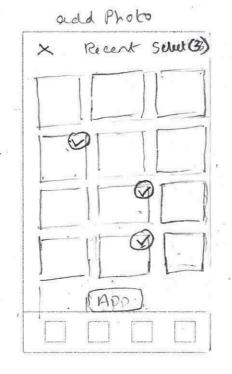


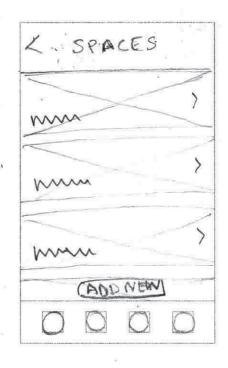
# **Sketches**

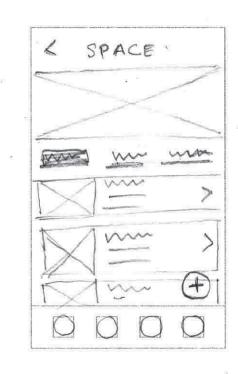


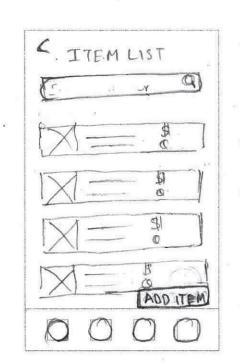


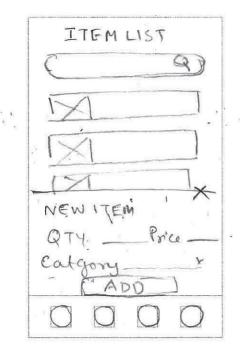


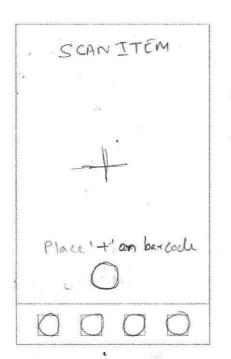




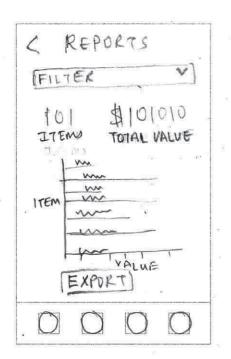


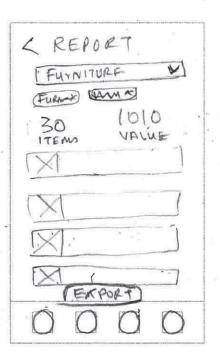








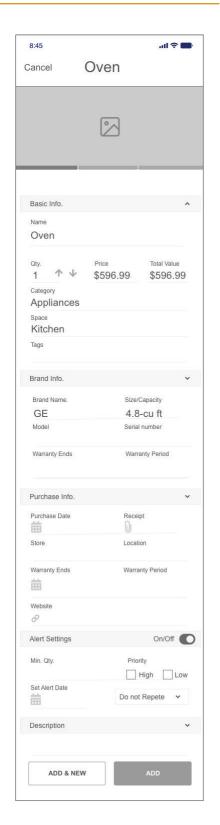


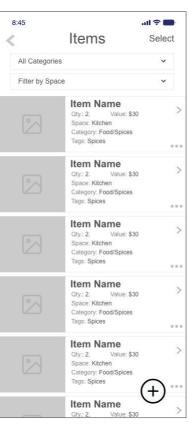


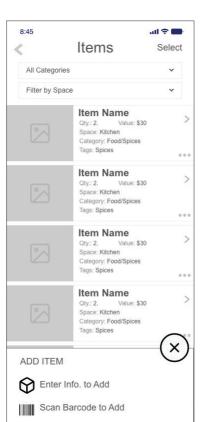
# **Sketches**

WSERS  WWW  WWW  WWW	NEWUSER X  NAME  OREQULAR OPOWER  SETSPACE	SET SPACE X  SET SPACE X  NAME  KITCHEN D  BEDROOMA M  GUEST ROOM D  DEN	RECENTLY ADDED	CATEGRAES  ON SO	Recently Added  CX nu  Add ITEMS
ADDUSER)  O O O O  CATELORA	SET CATIBUORY]  O O O O  CEXPORT	[ASSIGN SPACE]	PREVIOUSLY ADDRED  O O O O  SPACE	(NEW)  OOOO	O O O O
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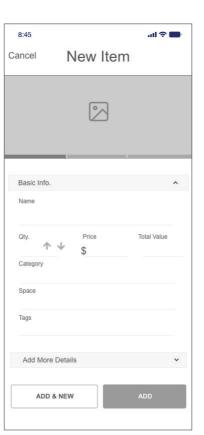
### **Additional Wireframes**

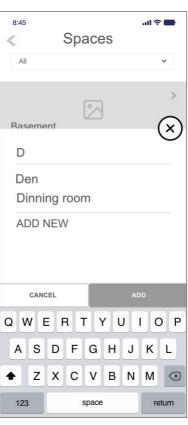


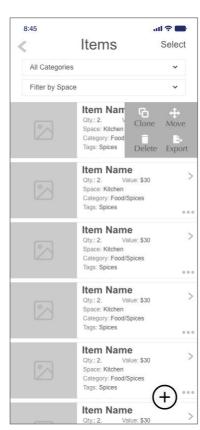


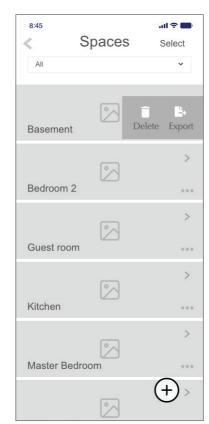


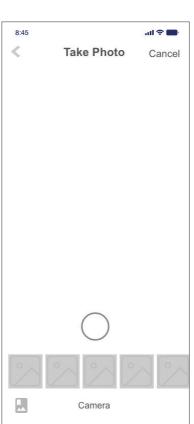


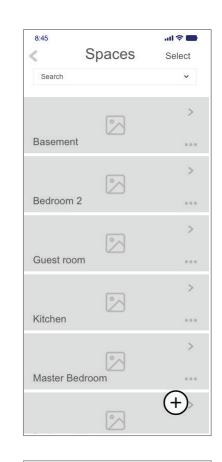


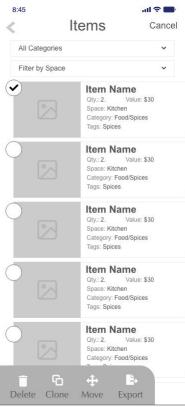




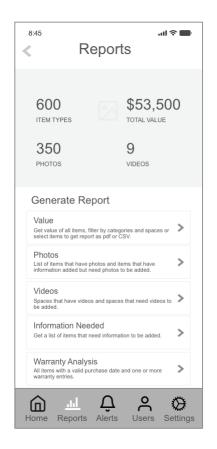


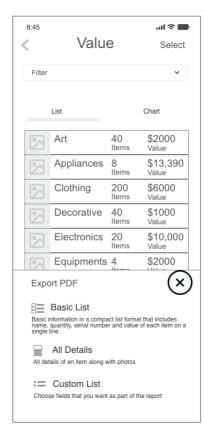


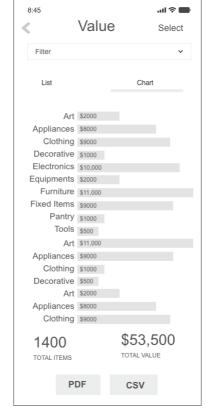




#### **Additional Wireframes**

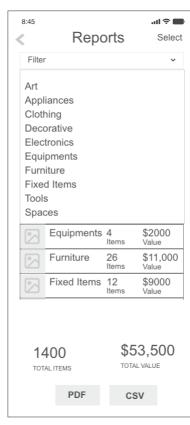


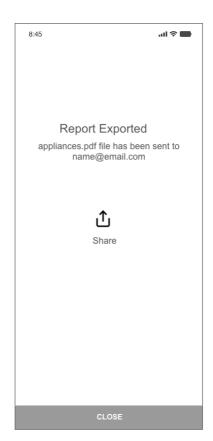


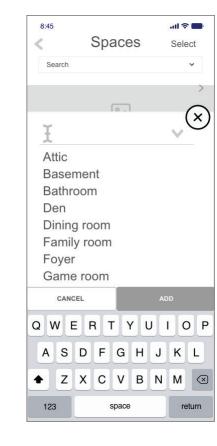
















# **Mood Board**









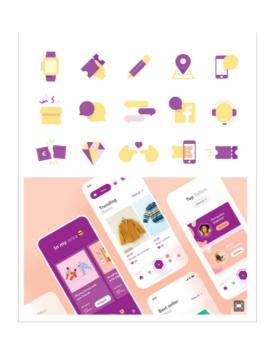




















# **Style Guide**

LOGO





Reverse Version

**BUTTONS** 

Home Buttons with Icons





Other Action Buttons

ADD & NEW

ADD

PDF

**FONTS** 

Gelasio

Roboto

Sub-Headings and Copy

**ICONS** 

















Primary



Secondary





































**Gradient Background** 



# **Usability Test Plan**

#### **Objective**

- Initial impressions of specific screens
- Content on specific screens
- Testing red routes for usability issues

#### **Tasks**

- How do participants respond to the organization of the home screen UI?
- Can users add an item from the home screen?
- Can users navigate to a space?
- Can users get the value of all their items, use filters to get a value/list of specific sets of items and then get a pdf report?

## **Testing methods**

Moderated remote usability tests with 5 participants using Zoom.

#### **Participant characteristics**

I will recruit homeowners of mid-to large size homes.

<u>Usability Test Script & Notes</u>

# **Usability Test Report**

I created a detailed usability test report after the testing and categorized the issues in terms of priority.

### Round 1 issues

Priority	Issue	Recommendation
Critical	Alerts was ambiguous	Remove Alerts as part of MVP
Critical	Users wanted to add custom content in Basic Info. for items	Make 'Description' part of 'Basic Info.' section.
Critical	Item Types on Reports page was confusing.	Change 'Item Types' to 'Total Items'
Major	Recently added didn't covey time frame well	Change 'Recently Added' to 'Last Added'
Major	Users preferred List view whenever they saw a list of items.	Remove 'Tile' view and have 'List' view as default with 'Details' as the second tab.
Major	Tab bar access from 2nd level	Have Tab bar appear on scroll so users have access to home page from 2 or more page levels.
Minor	Add a photo for receipt and not just link.	Add photo upload option to receipt.

## Round 2 issues

Priority	Issue	Recommendation
Critical	A level of security is needed as the app has sensitive information.	<ul> <li>Add a pin or password for access.</li> <li>Admin can set privileges for users for the 'Reports' section</li> </ul>
Critical	'Add info' in Reports is confusing as it looks like it is the same as the home page 'Add item'.	Change 'Add info.' to 'Add Details' and remove the 'Information needed' section.
Minor	First impression of spaces is the layout of a house.	Tweak the icon to show uneven blocks instead of 4 equal squares to reflect floor plan.