



INVENTORY APP

UX Design Portfolio

Edward Chen



Project Meeting

Problem:

People always forgot where their items are located and spend a countless time looking for the specific item.

Primary Stakeholder:

Product Manager

Tech Manager

Engineers

Business Owners

Role(s) Played:

UX Designer

Tools Used:

Sketch

UI Toolkit

Invision

Craft



Meeting Discussion

User Need:

User needs to be able to find items easily without having to spend time a period of time where they will either give up and went out to purchase for the same or similar items

Business Focus:

- Wanted to increase 20% users to use Inventory App
- Improve users satisfaction using the apps

Technology Availability:

API (Backend Developer)
Material Design UI Toolkit





Research

Facts

“Lost and Found: The Average American Spends **2.5 Days** Each Year Looking For Lost Items Collectively Costing U.S. Households **\$2.7 Billion** Annually in Replacement Costs” according to Pixie Lost and Found Survey.

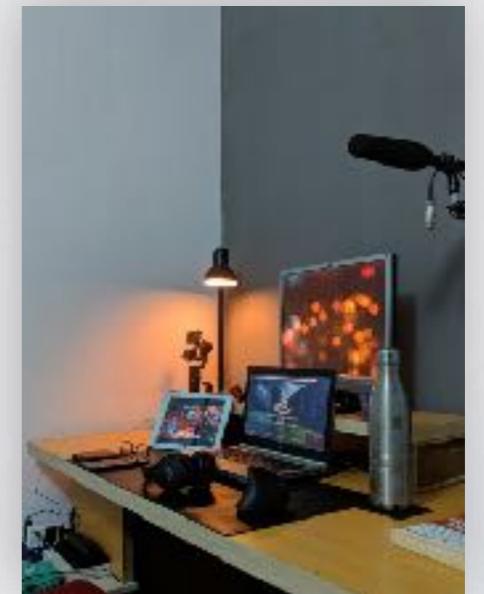
“There are **300,000** items in the average American home” according to LA Times.



Project Meeting

**Who are we design for?
What are types of product(s) are user trying to capture?**

We gather a lot of information from our research and present to the stakeholder on what we discover and found. Through out the research, we had notice that the information may get too broad and out of the scope for this project on what exactly are we trying to problem solved. So the asked questions during meeting to narrow down to a more detail scope of this agile project and considering few possible MVP add on for the next sprint. After the meeting, we created a set of survey questions that helps to understand user better.



Persona

Paul Walton

"I am multitasking and rely smartphone to help me organize my daily schedule."



About:

Paul is from east coast and currently move to west coast to finish his master degree of English. He wanted to become a script writer after he graduate and wants to work in film industry.

Age

25-30

Occupation

Master Student

Location

Los Angeles, CA

Salary

less than \$50k

Status

Single

Technology:

Social Media

Online Shopping

Computer Literacy

Mobile Apps

Frustrations:

Paul is always busy with his daily life and does not spend quality organizing his items. He always have to move things around and flipping around to find item that he is looking for.

Core Needs:

Paul needs an app that can assist him to change his habit to become a good at organizing items nice and neat. He need to be able to search items easily using his phone without moving boxes around the room.

Personality:

Creative

Adventurous

Curious

Techie

Favorite Brand:



SONY



Persona

Isiah Henry

"I cannot remember one thousand things in my mind"



About:

Isiah is marketing sales manager of midsize company. He is very busy person who travels frequently for business meetings. When he is not doing business trips, he will spend quality of time with his family.

Age

40-48

Occupation

Marketing Manager

Location

Bethesda, MD

Salary

75K +

Status

Married with 2 children

Technology:

Social Media

Online Shopping

Computer Literacy

Mobile Apps

Fustrations:

Isiah travels frequently for business trip and he always keep forgetting where his personal items are located inside his house. He spends about one hour of time to look for his personal items and some time even more.

Core Needs:

He needs an app that can help him find his personal items inside the house while is is away from home. He also need help on how to organize his items neatly to minimize the fustration in the future.

Personality:

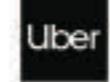
Extrovert

Idealistic

Loyalty

Team Player/ Leader

Favorite Brand:





Persona

Amelie Burton

"Make it inviting to look at.
Make it fun to read."



About:

Amelie was married for 30+ years and she is living with her husband. She works at local city library as a librarian front desk. Her job is to assist visitors to finding resources they are looking for.

Age

50-60s

Occupation

Librarian

Location

San Ramon, CA

Salary

less than \$60K

Status

Married with 3 children

Technology:

Social Media

Online Shopping

Computer Literacy

Mobile Apps

Frustration:

Amelie likes to organize her stuff in a brown boxes and she will place those boxes into storage room. She always forgot which items in which box and cannot remember all the time. So she need to unbox and dig into the box to look for her items.

Core Needs:

She need an app that can help her search for specific items that she is looking for without opening every single boxes to see whether if it is inside one of those brown boxes that she packed..

Personality:

Introvert

Caring

Friendly

Organized-oriented

Favorite Brand:



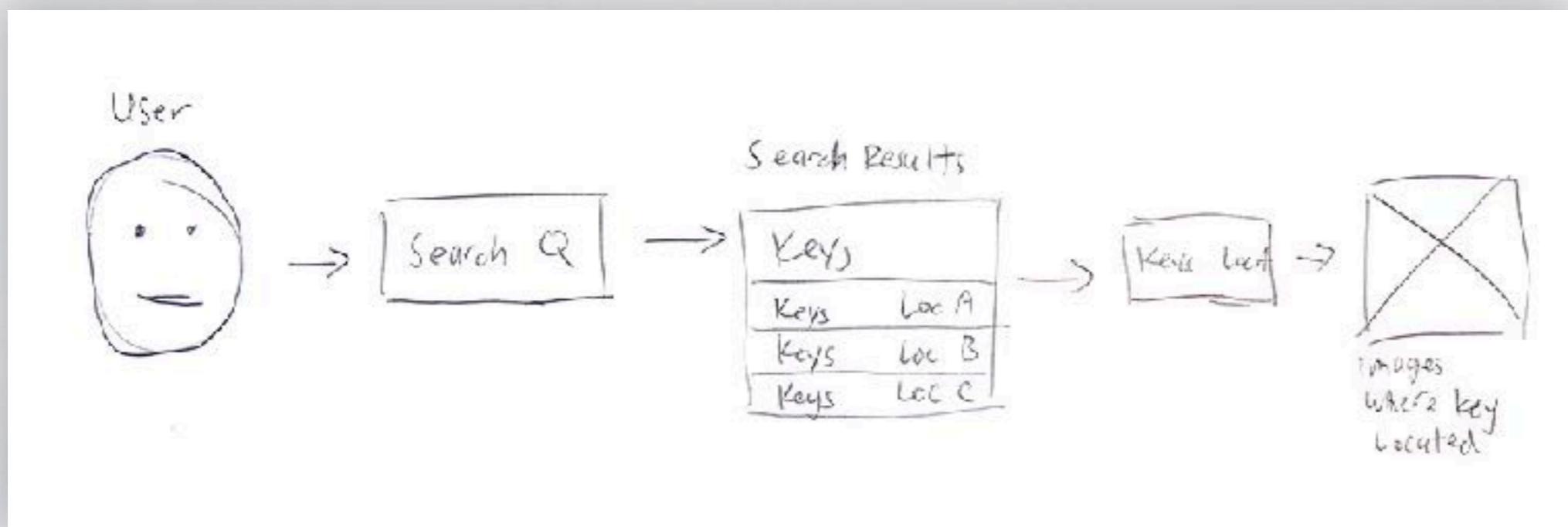


User Story / User Flow

As a user, user would like an app to help them remember where his/her place items within in their personal inventory (essential and non essential items):

- Ability to view a list of my mapped items
- Ability to view a map of my items within it's space/room
- Ability to share images
- Ability to search inventory based on category
- Ability to organize your inventory back to where you last placed at
- Ability to assist you how to organize

One of the hand Sketches of user as if he/she will want to accomplish one task.





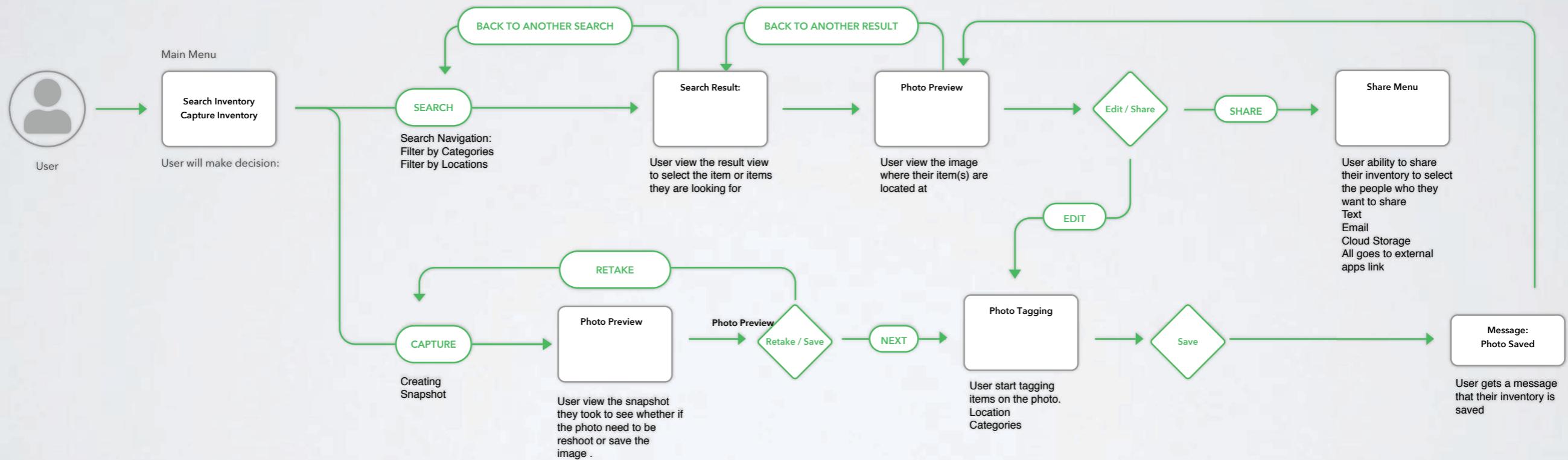
User Flow

After the initial sketch of user's journey to each pathway, I decided to problem solve combining all the pathway into one “main menu” and user are still ability to:

Search for existing inventory items

Capture or updating inventory items

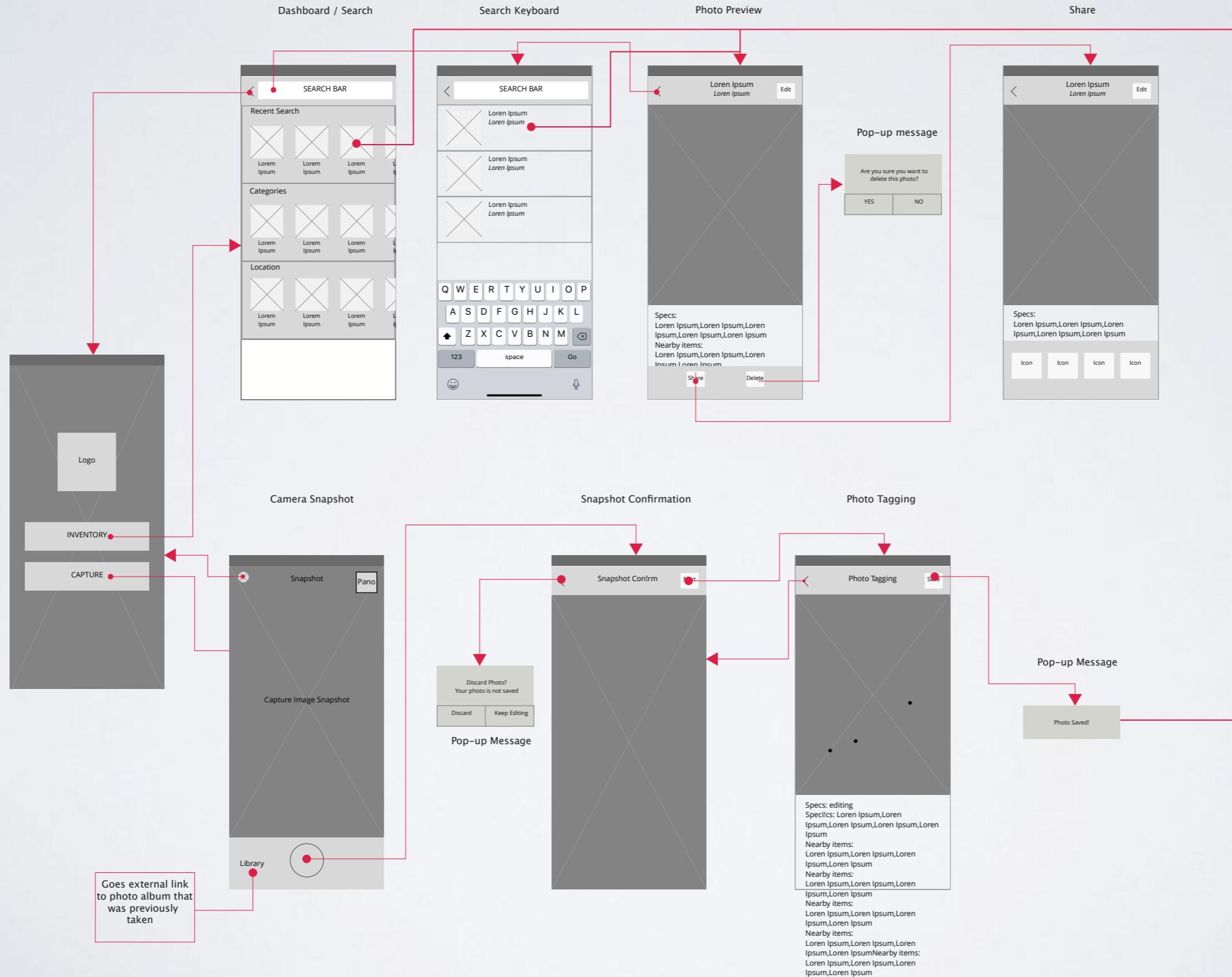
Ability to share inventory items





Low-Fidelity Wireframing

After working the User Flow, I decided to create a low-fidelity prototype to see the wire frame and how it connect and making sure it meets the user needs.





Low-Fidelity Wireframing

Usability Testing

During this low-fidelity prototype stage, we assign a panel of user to see if they are capable to perform specific tasks based on the questions.

Testing

1. How do you search for inventory?
2. How do you capture photos of inventory?
3. What do you think about the snapshot confirmation page? Is it necessary?
4. Will you to figure out how to update or delete the inventory?
5. What do you think you can do on this photo tagging page?
6. What do you think about the photo preview page?
7. Were you able to share your inventory to people?
8. What is your pain point of this app?

Results

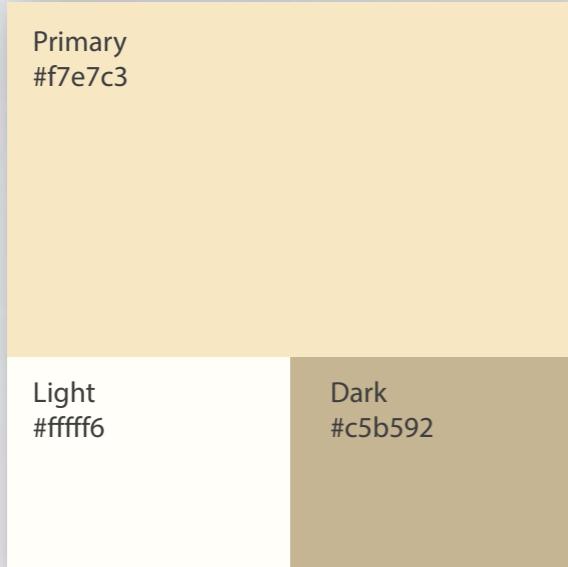
After the usability testing, user were able to identify and perform the set of tasks. I discover few problems that user also asked during the testing that needs to be change during the next stage of the process.

- 1) Delete message: How will user know if this will delete delete the image ? Or just the list? Or both
- 2) How are users going able to tag the pages?

In this stage, it is too early to make final decision because tester does not know exactly they want on the dashboard page, so we will be do testing in high fidelity wireframing and revision based on the results I gather during this stage.

High Fidelity Wireframing

Styling / Color Theme



Based on the research, inventory app need to feel warm, welcoming atmosphere, minimalist, peace, stress free, plain, free, calm, mindful. As a result, we decided to look for inspiration from minimalistic interior design and discover most colors are either shades of black or white or beige. As a project team, we came decided to choose beige as the color for creating high fidelity prototype.

Inspiration:





High Fidelity Wireframing

Dashboard

My Items

Recently Added

- Desk Space Dining Table
- Office Supplies Office drawer
- Office Office

Category

- Desk Space Dining Table
- Indoor Office Room
- Office Office

Location

- Home Office Room
- Office Room
- Office Office

Home

+

≡

Search

Search

Recent Search

- Desk space Dining Table
- My clothes Master Closet room
- Office stationary supplies Office drawer

Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123 Space Go
Smiley Face

Results / Photo Preview

Home Desk

Location: Office Room

Home

←

Title: Home Desk
Location: Office Room
Image Tag:

DOLR Camera Headphone Camera Accessories
I GGPIN Air Supplies Travel Map
Guitar Misc Accessories Fender Series Guitar Case
Bassist Bassist Bassist
Concertina Concertina Concertina

Share

trash



High Fidelity Wireframing

Dashboard

My Items

Recently Added

- Desk Space dining table
- Office Supplies 6-Box drawer
- Office Office

Category

- Desk Space dining table
- Office in Action Office Room
- DESK DESK

Location

- DESK DESK
- Closet Closet
- DESK DESK

Home + E

Camera



Camera Preview /
Editing Page

Title: Music Instrument
Location: Studio Room
Image Tag:

- Guitar
- Les Paul Studio
- SG Modern
- Jackson
- Jazzmaster
- Stratocaster
- Yamaha cmp coolor
- Guitar Misc Accessories
- Fender Series Guita Case



High Fidelity Wireframing

Usability Testing

During this high-fidelity prototype stage, we assign a panel of user to see if they are capable to perform specific tasks based on the questions.

Testing

- 1.On dashboard page, what are the tasks do you think you are able to achieve?
- 2.What do you think about the arrangement spacing and type size on the dashboard?
- 3.Will you to figure out how to edit or delete the inventory?
- 4.How will you figure out how to type or tag information on the photos?
- 5.What is your pain point of this app?

Results

After the usability testing, user were able to identify and perform the set of tasks. There were few UI problems placement position that confuses user and I start wondering why things were place over there at the first place. The spacing and text was a little bit too tight and feeling like it is very busy which can may cause confusion. After this testing, I conduct few more testing like A-B testing on specifics UI and UI placement to build a high-fidelity prototype.



High Fidelity Prototype

Dashboard

Capture

Tagging



Results

User:



"I can't believe how this inventory app had save my day trying to find my sports equipment that I almost gave up."

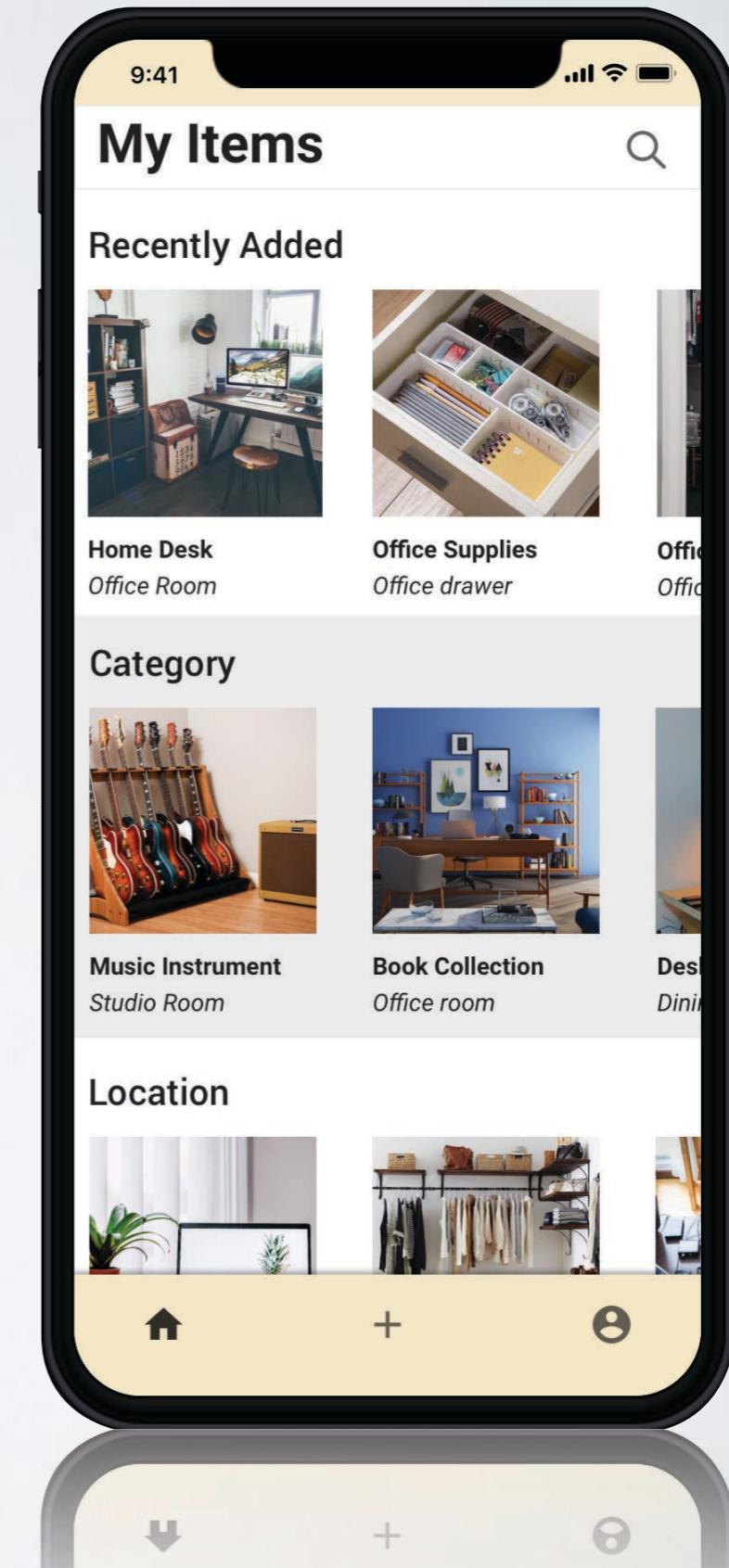
Business:



Increase 15% growth in user



Positive outcome in user feedback rating



Results

Challenge:

During the user flow and wireframing stage, we went through different concept pathway to get to what user are looking for. There were so many steps to get user's goal which can be intimating and causes frustration. We had to figure out ways to get to user's goals in 3-4 tabs in the wireframing.

What I learned:

I have learned research can be very diversify and may become to out of scope of in a project. It may or may not lead to the consistent information to both user and business goals. Which is why stakeholder meeting is also play an important roles to ensure and keeping on the right track in order to meet all goals. I also learned the frequently testing will help and improve solving problems that user encounter before passing final prototype to engineers.