

# **Deliverable 1 - Requirements Document**

D.N.A

**Our website:**

<https://docs.google.com/document/d/15YcpB9n4S6tKNYkSPbz3V0BlflqgaS12lmS8sN1LUMA/edit?usp=sharing>

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### **3. Summary Page**

We are the D.N.A coalition and we are creating an application that helps manage your files efficiently. Our product, Tidy, will be a focal hub for all of your documents and a creative organizational space beyond any basic file manager. Many people have a collection of files on their computers that have no organization aside from files inside of files that are accessed from the management system on their computer. This system is very impersonnel and only allows for the simplest of organization. The goal of our product is to create an enhanced file management system that can be customized to each user.

The typical user of this product will be anyone who has a collection of unorganized files on their computer. They will be able to create collections and categories for each of their files and create useful descriptions for each one. They will also be able to search all of these files quickly to find exactly what they are searching for.

For example, an average individual accumulates a lot of documentation that they need to store physically, or upload to their computer so that they can access it. Ranging from user manuals, receipts, to step by step building instructions, most people have mountains of documentation that should be kept together. Unfortunately, most people throw away these important papers because it takes a lot of work to store and organize all of this information. With the Tidy app, storing all of these papers will be relatively painless. There will be no need to store a file cabinets worth of papers or spend hours searching your computers file manager looking for the right pdf you need.

## 4. Requirement and Functional Definition

Main Goal: As a user I want to have offline access to all of my manuals so that I can access it at any time.

US01 - As a user I want to be able to add/upload different file types.

US02 - As a user I want to edit my documents so that I can keep my info up to date.

US03 - As a user I want to be able to delete projects and document that I no longer need.

US04 - As a mom I want to be able to access this information without being online so that if there is a problem with my internet I will still have all of my documents.

- As a user I want more than just a cloud based file manager so that I can organize all of my documents.

US05 - As an appliance designer I want to be able to import scanned documents and sketches.

US06 - As a user I would like to be able to organize a bunch of connected projects under a similar heading like "Family room remodel", so that I can find them easily.

- As a user I want to sort my documents based on a room so that I can keep associated things together.

US07 - As a multi-device user I would like a way to export the data.

- As a multi-device user I would like to be able to export from my computer and then import the information to a phone.

US08 - As a busy person I want to be able to find all of my information quickly and easily.

US09 - As a user I want all of my documents to have a keyword so that I can search and find everything related to that keyword.

- As a user, I would like to have the ability to search for my items using a keyword or tag.

US10 - As a husband I want to add service and repair information so that I can keep track of when my stuff needs to be fixed.

US11 - As a handyman I want to be able to upload a parts list for a specific piece of equipment so that I can have all of the parts in one place.

US12 - As a user I want to be able to connect all of my warranties to the products so that I can

keep them all together.

## Business Rules

BR01 - The software must be able to operate completely offline.

BR02 - All standard document file types will need to be accessed by this software.

BR03 - The only technical requirement for this software is having up to date Java.

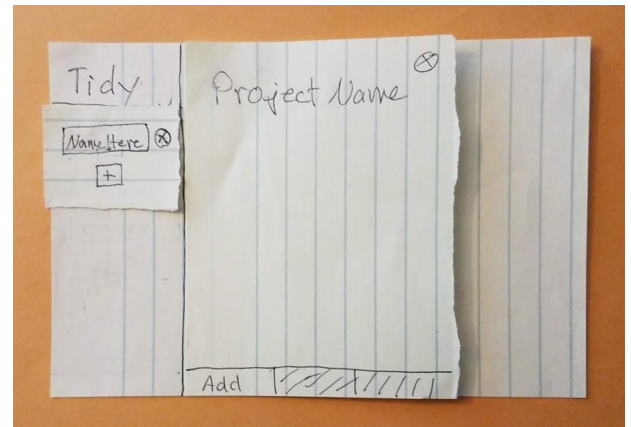
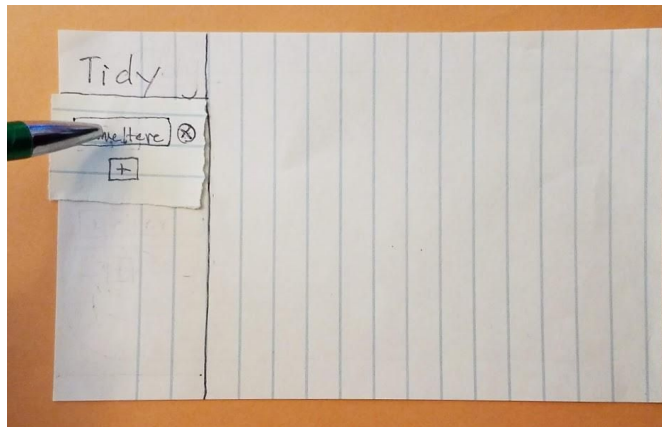
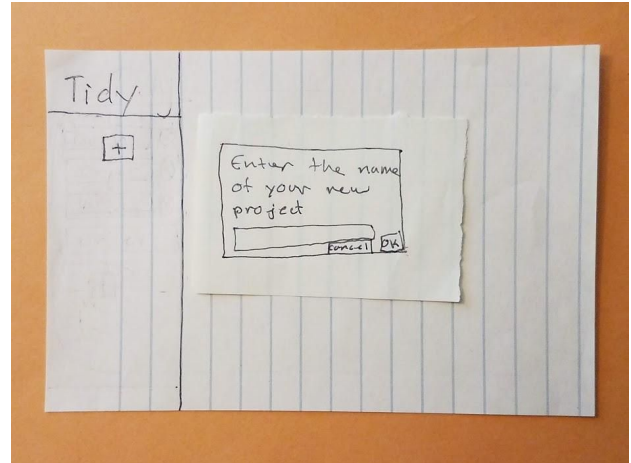
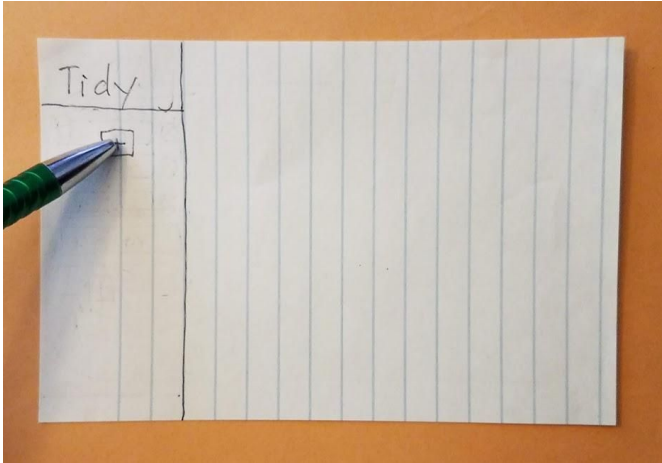
BR04 - The software will be able to run on PC and MAC.

BR05 - The software will be a standard desktop application with no web based backing.

## 5. Paper Prototypes

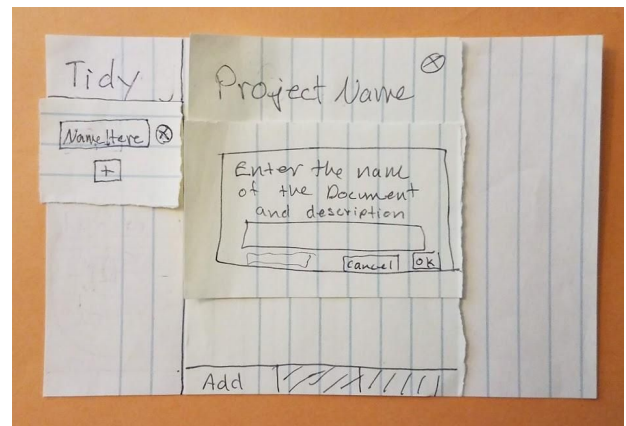
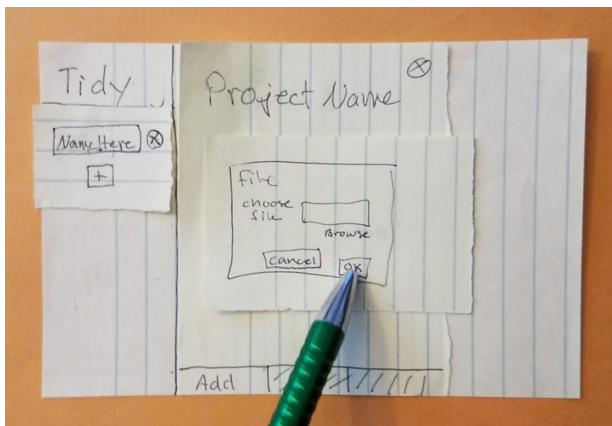
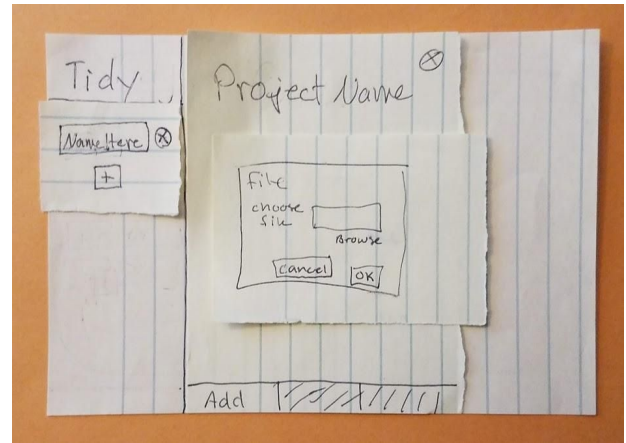
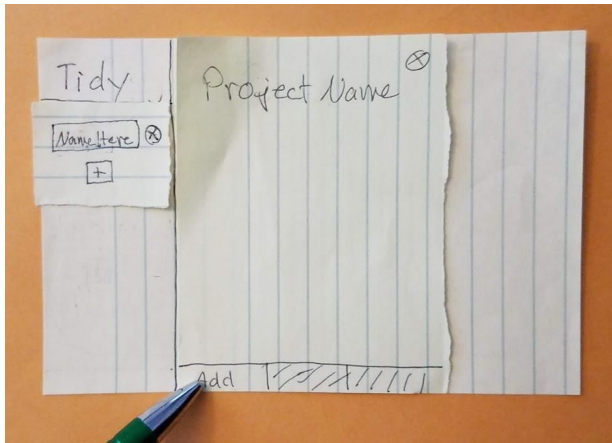
The 3 highest priority user stories we implemented in our paper prototype were add, edit, and delete.

**The starting screen will have the option to add a new project.**



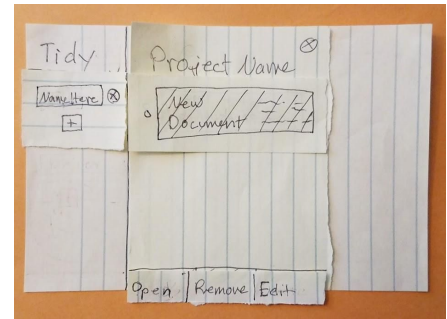
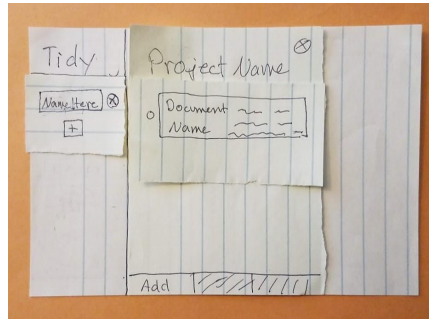
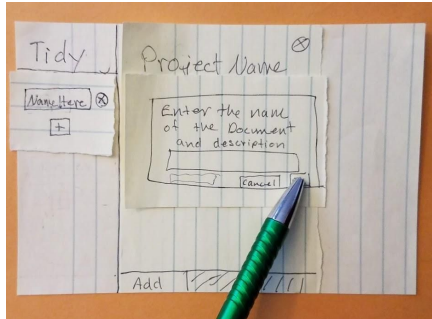
**A new pane will appear that will represent the inside of the project.**

Once a project is created the user will be able to open it and add documents to the project with a description of the document.

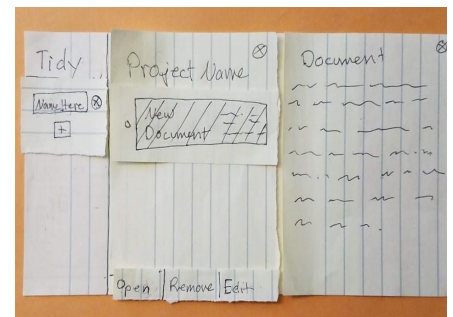
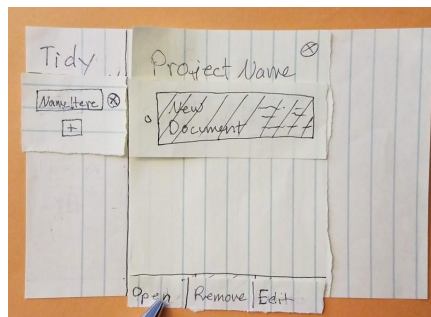
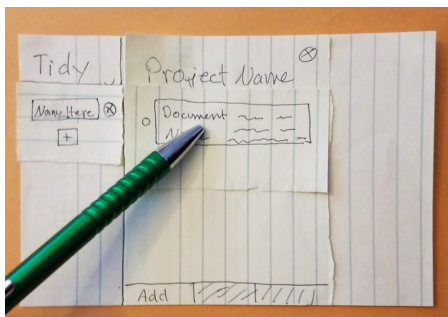


Adding a document to the project will prompt the user to enter a name and a description for their new document.

**The document will be shown inside the project pane. The user will be able to select the new document and new options will be shown.**

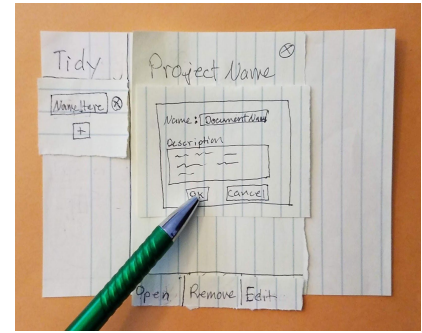
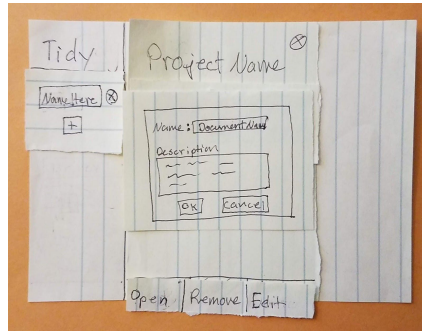
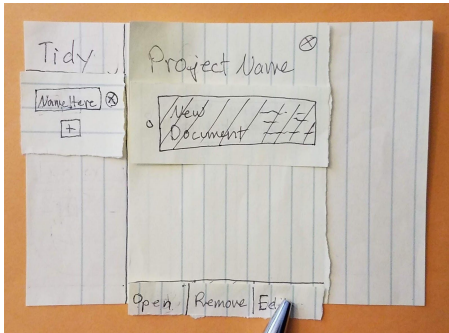


**When a document is “selected” it will be highlighted on screen and new options will become available at the bottom of the project pane.**

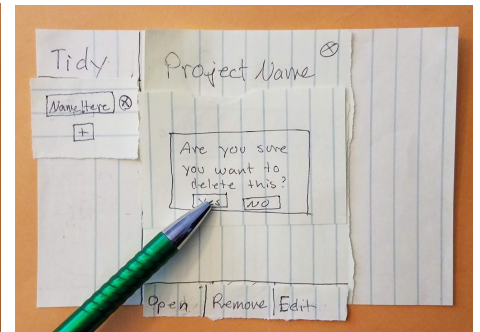
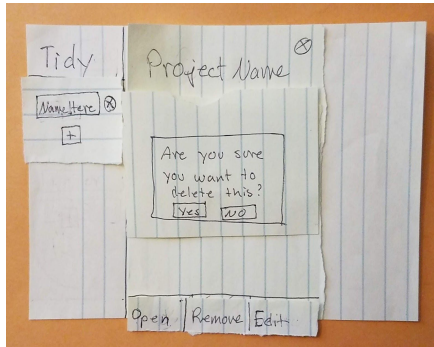
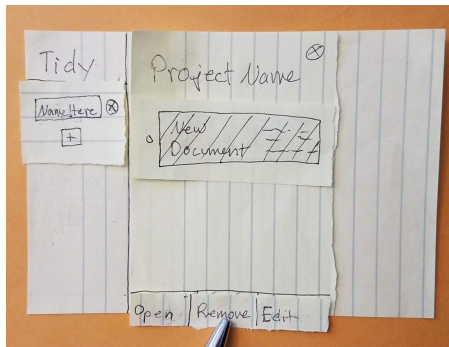


**One of the new options will be the Open feature. Selecting this will open the document with the computer's default file viewer.**

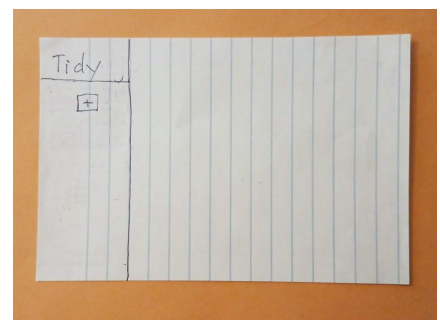
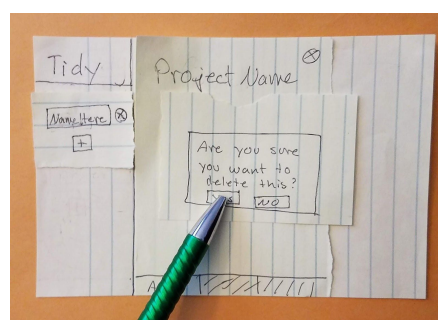
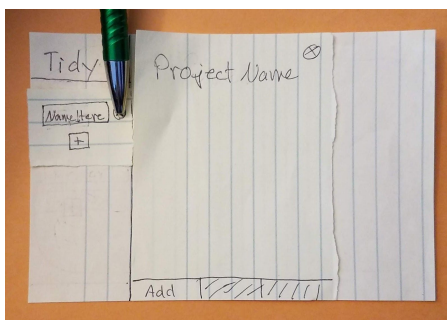




**Another feature is edit. Selecting this will allow the user to change the name and/or the description of the document.**



**A user can also remove documents and/or entire projects.**



## **6. Requirements & Technical Specification**

### **6.1. Requirement (Gathering) Specification**

- After we reviewing the client interview, our group began to gather all of the necessary requirements from Mr. Keener. To ensure that we understood Mr. Keener's need thoroughly, we investigated the interview document and wrote down use cases. Based on Mr. Kenner's scenario, he emphasized that he wants to find an app to import manual information to his phone/PC, view documents easily, and discard those instructions. Thus, we initially prioritized our Tidy app to satisfy these three use cases: store the manual by importing, view the documents offline, and delete documents.
- With the above use cases, we then decided to design our app on PC and sketched out the paper prototypes for usability tests (part 5). In the testing process, the most important task was to collect user's feedback and ensured that Tidy's main features could be executed at ease by our users. After conducting five 10-minutes interviews, we gathered a lot of positive feedback that our Tidy app operated as expectations and was able to satisfy the three use cases (create, view, and delete). The users tended to enjoy how we structured and organized the buttons, notifications and the way we displayed the instruction. However, we often gather feedback to improve our project search bar. Users found it difficult and inefficient to scroll all the way down and look for the target name when the project list got too long. Thus, we proposed one solution that adding a search bar would solve this problem. After finishing the requirement gathering, we began to implement the technical specification.

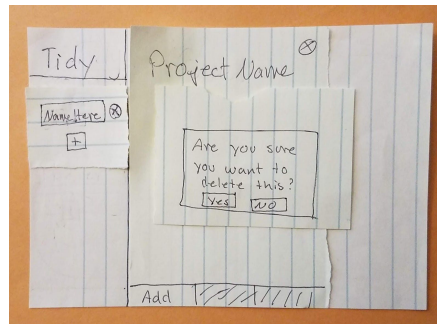
### **6.2. Technical Requirement**

- Overview
  - Tidy app will be a product that helps users to store manual instructions in an electronic form and allow them to manipulate the documents.

- This spec is not complete and it serves as a starting point for this delivery before the final product is complete. At every unexpected change of our Tidy app, we will update this deliverable periodically.
- This spec does not include any algorithm or assert any technology implementation.
- Scenario: Henry the handy father.
  - Our group believes a person like Henry will be a suitable target to use our Tidy app. Henry can be seen as a person who often builds and maintains the house applications. He takes responsibility for his family when it comes to fixing stuff since he lives with his wife and has two young children. Henry was born in generation X. Thus, he does not have much experience about technology, but he is capable to use phone/PC to read and store manual information. Before going to Home Depot to buy material, he wants to know the total amount of material required to fix a chair. Struggling to look through all of his paper documents to find the chair manual, his wife recommends him to use Tidy. By using the app, he can simply just import one of the online guides about chair fixing and store this in Tidy. Then, he can simply carry his phone to Home Depot, look at the required material in the pdf, and finish his shopping trip at ease. He can also look up this chair manual again in the future if his new chair is broken again.
- Non Goals
  - The ability to scan the documents
  - Require password or ID to login the app
  - The ability to share information to different users. Each tidy will statically enable only one user to use.
  - The ability to recover whatever document is deleted by users
- Single Screen Specification
  - When we design the wireframes of Tidy, we agree in order to keep Tidy simple as much as possible by showing all information in one screen. This can be a double-edged sword and we are conscious about this. We have organized

different sections (project list, project details, and document view) into the left, middle, and right side of the screen as vertical forms. By doing this, none of the display will overlap the others and users do not have to switch between different screens.

- Command notification



- As stated in the non goals, we have discussed to implement the recovery option when users delete a document. Thus, every time users want to create or delete a certain document, Tidy app always prompts them a pop-up that explains user what will happen next and needs users to click a button to confirm a change.