

Mao and The Zedongs (毛泽东)

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<https://github.com/SlowNibbler/1989-Tiananmen-Square>

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Summary

Mao & The Zedongs is a team comprised of Dylan Hill, Samuel Adams, Mike Fly, and James McHugh, who are working on a solution for a problem all D.I.Y. enthusiasts are sure to face. When working on a project, it's hard not to wind up with seemingly endless instruction manuals, rough sketches, and every other kind of paper imaginable. Often times it's even harder to keep all of that paper from getting lost or being misplaced. That is the kind of problem that we aim to solve. Our application will allow users to create digital project folders where they can upload any documents they have pertaining to a certain project and have them all stored in a single place, allowing for easy access. To make things even more convenient for our users, we plan on implementing a search functionality, allowing users to search for individual documents within projects based on unique tags users can give to their files.

In order to make this program accessible to as many potential users as possible, we are working to design it to be easy to use, regardless of how tech-savvy you are. In order to envision the kind of program we are working on, imagine a man named Harold. Harold is a retired mechanic who is working on replacing the engine in his wife's car. Before getting to work, Harold boots up his computer and opens our program. As soon as it opens, he is greeted by a large icon labeled "Add Project". Clicking the icon opens up a window where Harold can give his project a name, description, and even add searchable tags such as "automotive" or "garage". Once Harold is content with the information he has entered, he clicks "save" and his project appears in the sidebar of our program.

As Harold goes about working on the car he ends up drawing a lot of sketches to remember how things go together. After drawing a couple of sketches, Harold decides to scan them into his computer so that he can add them to his project that he created on our program. After opening up his project, which is now present on the program home-screen, he clicks the "Add Item" button inside of the project window. Harold is then able to give this item a name, description, and tags, just as he did for his project, as well as upload the images of his sketches via a simple file browser. Now the sketches are saved in his project folder and even if he loses them in his toolbox, he can still go back to his computer and see them.

We also have the intention to make projects and their subfiles fully exportable so that users can take their projects to a different computer or with them on the go. Once again, imagine Harold. Harold has also been working on fixing a piece of the fence in his backyard. He has a project folder on our program full of sketches, measurements, and other files for his fence project already. The only problem is that all of he would really like to be able to view all of these files outside while also looking at the fence. Fortunately, we have an easy solution. All Harold has to do is open up his project folder and click “Export”, which creates a new folder containing all of his files and information tied to his project, saving Harold from having to find each file individually on his computer. Now Harold just has to move the convenient folder over to his phone or tablet and he can take his files anywhere.

Requirements Definition/Functional Specification

User Stories:

US01. As a user, I want to add a project so that I can keep track of it easily.

US02. As a user, I want to add an item to a project so that I can associate the item with the project.

US03. As a user, I want to add subcategories to a project so that I can organize its items.

US04. As a user, I want to right-click on a/n project/item and see a list of options (open, edit, rename, remove), so that I can easily manage the project/item without opening it.

US05. As a user, I want to have a search bar so that I can easily search for items or projects.

US06. As a user, I want to add tags to an item so that I can search for it by those tags.

US07. As a user, I want to edit a project's properties (name, description, subcategories) so that I can update its information.

US08. As a user, I want to edit an item's properties (name, description, tags) so that I can update its information.

US09. As a user, I want to save a project so that any changes made up until that point don't get erased when I close the program.

US10. As a user, I want to add a tab (e.g. 'Manuals') so that I can organize my files how I want.

US11. As a user, I want to remove a tab, excluding 'Projects', so that I can get rid of old files.

US12. As a user, I want to have the program be stand-alone so that I don't have to log-in.

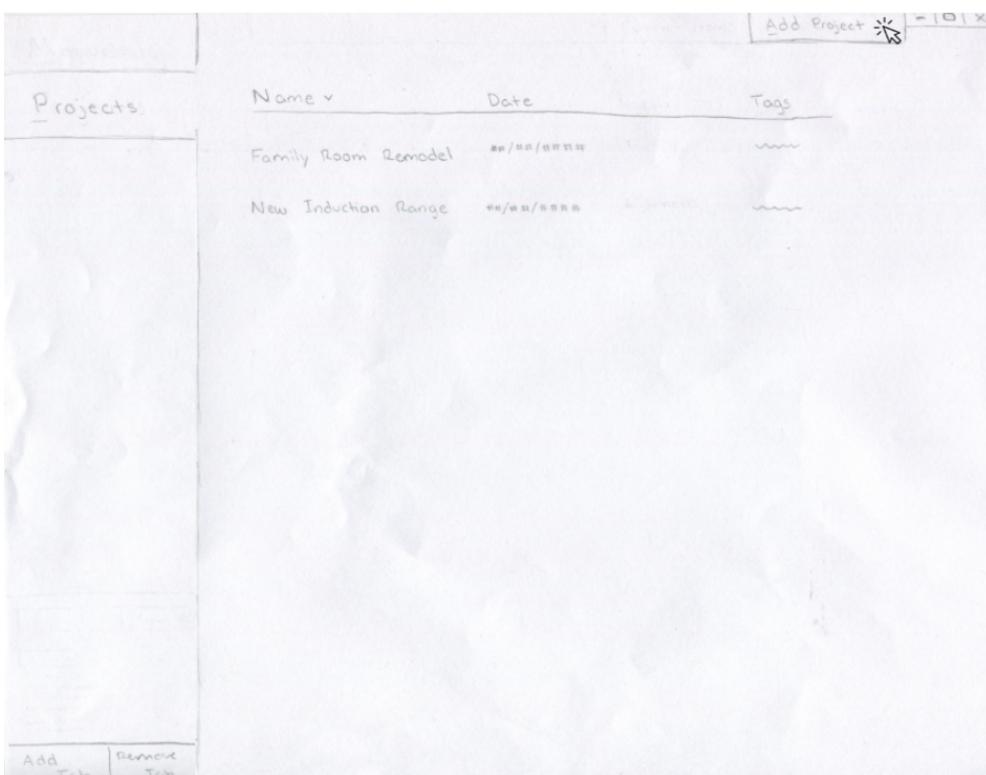
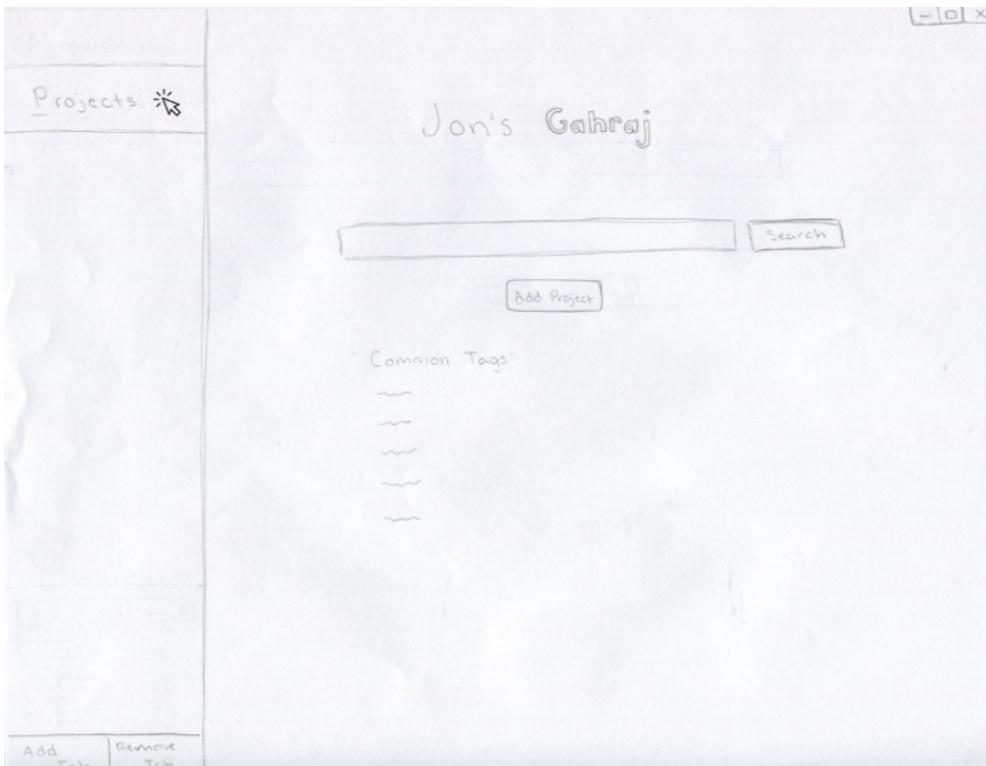
US13. As a user, I want to print project/item information so that I can have a hard copy.

Business Rules:

- BR01. Users may add custom tabs, up to a limit of 10.
- BR02. Users may remove any custom tab, but not the default ‘Projects’ tab.
- BR03. Users may add projects/items to custom tabs, but only projects to the ‘Projects’ tab.
- BR04. Users may add items to any project, regardless of which tab the project is in.
- BR05. Users may search projects by name, and items by name or tag(s).
- BR06. Users may edit a project/item and change relevant information.

Paper Prototypes

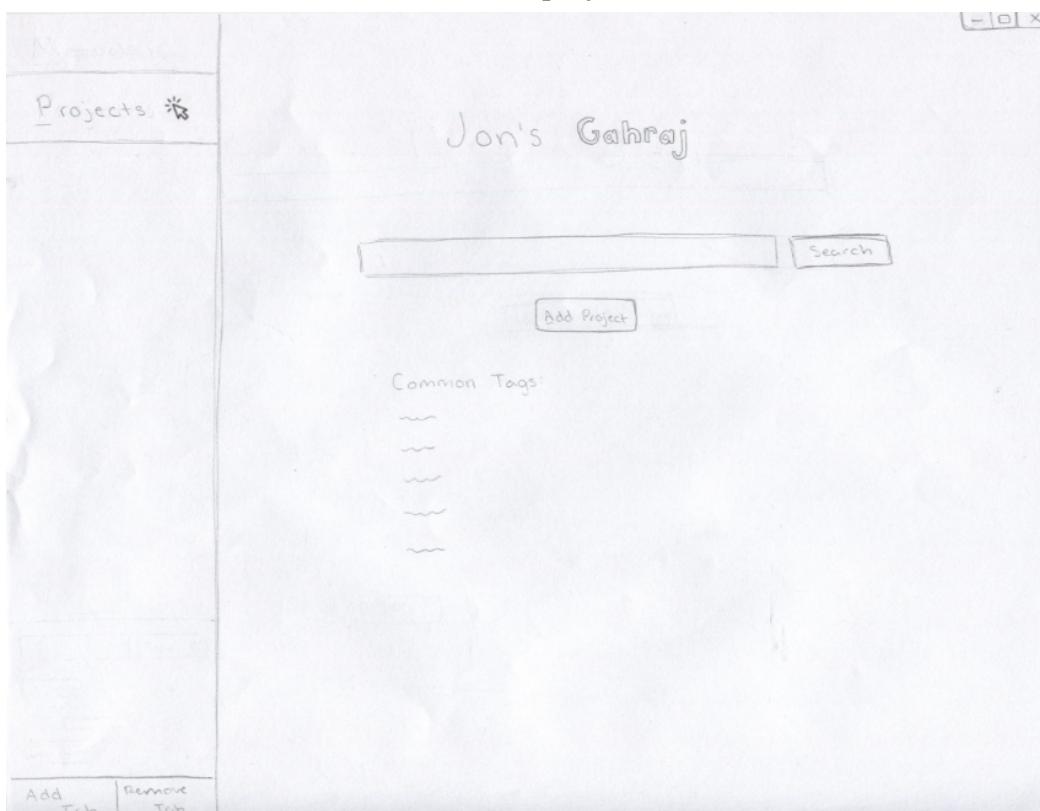
US01 As a user, I want to add a project so that I can keep track of it easily.



Projects		Name	Date	Add Project
		Family Room Remodel	2019-01-01	<input type="button" value="Add"/> 
		New Induction Range	2019-01-01	<input type="button" value="Add"/> 
		New Kitchen	2019-01-01	<input type="button" value="Add"/> 
<input type="button" value="Add Tab"/>	<input type="button" value="Remove Tab"/>			

Projects		Name	Date	Tags	Add Project
		Family Room Remodel	2019-01-01	<input type="button" value="Add"/> 	
		New Induction Range	2019-01-01	<input type="button" value="Add"/> 	
		New Kitchen	2019-10-26	<input type="button" value="Add"/> 	
<input type="button" value="Add Tab"/>	<input type="button" value="Remove Tab"/>				

US02 As a user, I want to add an item to a project so that I can associate the item with the project.



Projects			Add Project	- 101 X
Name	Date	Tags		
Family Rock Remodel	Jan/2023	Wavy Lines		
New Induction Range	Feb/2023	Wavy Lines		

Managers

Projects

Project Name: [REDACTED] Add Project - 101 X

Desc: [REDACTED]

Tags: [REDACTED]

+ Manual(s)
+ Receipt(s)
+ Warranty(es)
+ Category 1
+ Category 2
+ Category 3

Edit Project

Add Tab Remove Tab

Managers

Projects

Project Name: [REDACTED] Add Project - 101 X

Desc: [REDACTED]

Tags: [REDACTED]

+ Manual(s)
+ Receipt(s)
+ Warranty(es)
+ Category 1
+ Category 2
+ Category 3

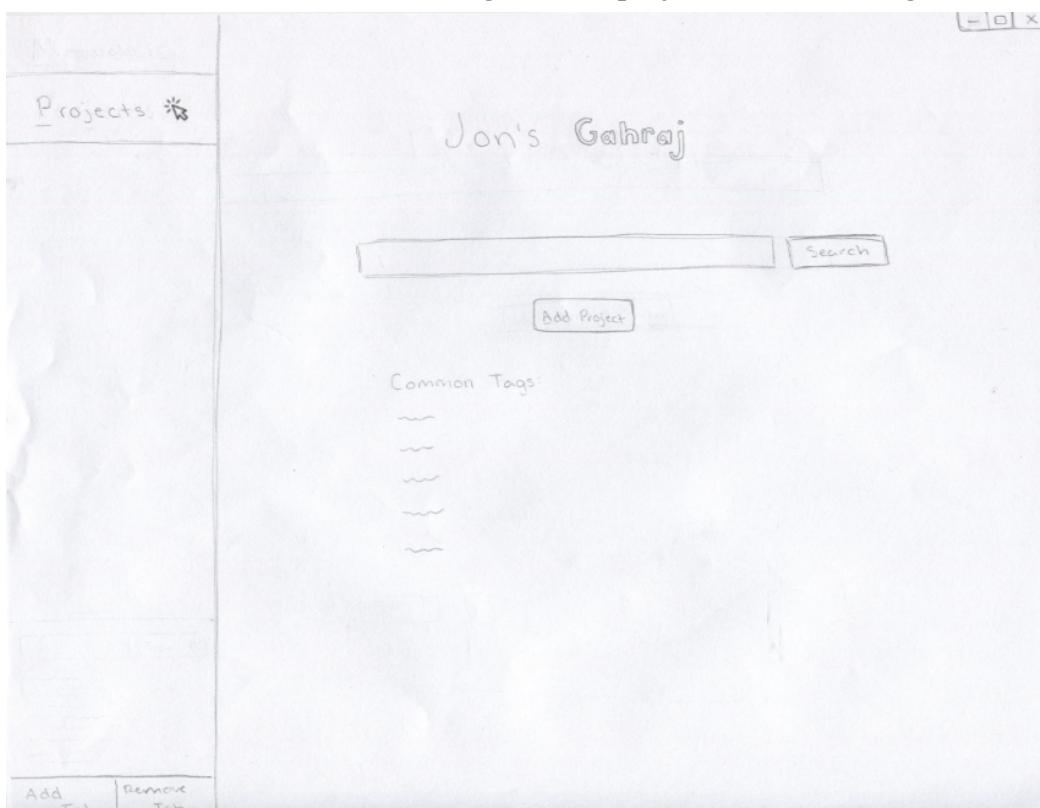
Name	Drill Ma...
Desc	Manual f...
Tags	Tool, Pow...
Category	(Manuals)
Files	(empty)

Add X

Edit Project

Add Tab Remove Tab

US03 As a user, I want to add subcategories to a project so that I can organize its items.



Project Overview			Add Project	L-101x
Name	Date	Tags		
Family Room Remodel	2023/05/15	Walls/Flooring		
New Induction Range	2023/06/01	Kitchen		

At the bottom left are "Add Tab" and "Remove Tab" buttons.

Project Name: Add Project - 101 X

Desc:

Tags:

+ Manual(s)
+ Receipt(s)
+ Warranty(ies)
+ Category 1
+ Category 2
+ Category 3

Edit Project

Add Tab Remove Tab

Project Name: Add Project - 101 X

Desc:

Tags:

+ Manual(s)
+ Receipt(s)
+ Warranty(ies)
+ Category 1
+ Category 2
+ Category 3

Name Images Add X

Edit Project

Add Tab Remove Tab

Requirements Specification/Technical Specification

Our intended functionality is to allow our users to easily store and retrieve their personal files order to declutter and help organize their life. To achieve this, this application must be a standalone executable that operates without network connectivity or any form of account system. The application must be able to take a users files, in any arbitrary format, and be able to allow the user to retrieve them and store them in another location. This application must also store the files given to it, to ensure that a user cannot accidentally delete a file from another location and have it go missing within this program. This program should also be able to open files, calling the default program registered within the OS. This application must also be searchable for both tags of items and titles of projects. The frequency of tag usage should be stored and the most frequently used tags should appear on the splash screen and be interactable to facilitate use.