



Internal Home Directory

An inventory management system



Members

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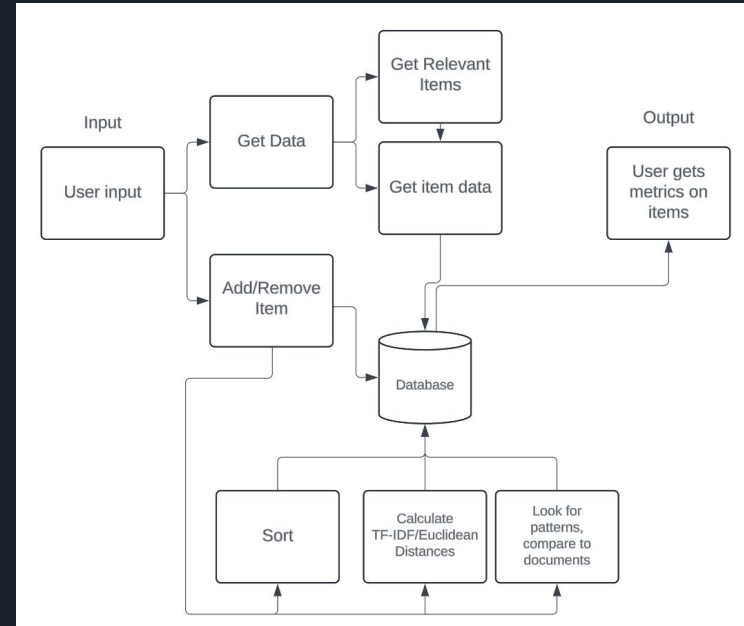
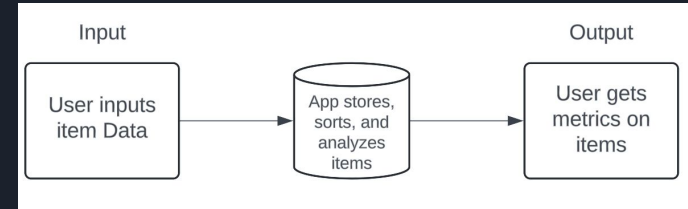


Project Abstract

Our project is intended to help users stay organized and to reduce consumption and waste. Apart from being a checklist or notes app, we would like for it to be smarter with handling items in an inventory by incorporating features such as sorting, scanning items to intelligently add them to an inventory, and to provide reminders and statistics about items currently in an inventory to help users make better use of what they currently have. We hope to reduce spending, encourage taking care of important items, and making the most out of users' possessions to make the world a cleaner and more efficient place.

User Stories and Design Diagrams

1. As a user, I want to save items that I input so that I don't have to worry about keeping track of items myself
2. As a user, I want my items to be in one place so I don't have to keep track of different lists in different places
3. As a user, I want the program to sort items that I input so that I don't have to organize data myself
4. As a user I want the program to be able to gather information from a document that I input so that I don't have to manually input everything in the document myself





Major Project Constraints

Economic	The app will be free, so there will be no compensation for the time and effort allotted
Ethical	With an app that manages personal belongings, privacy will be paramount to everyone
Security	With privacy, comes the concern for security, to ward off bad actors
Social	<ul style="list-style-type: none">- Is this app something people would want to use?- Given the right encouragement, reminders, and statistics, users would need to be consciously wasteful not to use the app



Review of Project Progress

- We currently do not have any functional code yet
- We are towards the end of ideating the development path for our program
 - We will use SQL to develop our databases and still need to formulate the tables which will represent our program
 - We will use React to build the user interface of our application
 - We need to find component and function libraries to determine the visuals and functions of our program
 - We will use either C++ or Python for our backend and REST API
- We still need to determine if we would like for our program to be usable on multiple platforms



Expected Accomplishments

- To have some iteration of a program able to launch
- To have a workable version of the database programmed or created
- A basic user interface wireframe that at least partially functions and performs some actions of the final product
- To have the backend set up and able to communicate with our database
- To have the frontend, backend, and databases all set up and able to communicate with each other as proof of concept



Division of Work

Justin	Rey
Responsible for developing the design, frontend, and UX for the program.	Responsible for designing the database, backend, and API framework for the application. Will implement sorting and query algorithms for the entries in the database.
Both	
<ul style="list-style-type: none">- Research different ways to input information (text input, photo, barcode, list)- Research machine learning to aid with user input- Research algorithms to handle user data- Research developing for different platforms- Document programming and testing- Apply iterative design- Update GitHub with progress and documentation	



Expected Demo at Expo

Our goal for the expo would be to demonstrate the application working with all of its base functionality. This would include a user navigable frontend that is connected to a backend and database. This app should be able to add and remove items, as well as display interesting statistics about the items in the database. Our booth could be interactive with a display of items that could be added and removed to demonstrate the application working in real time.

