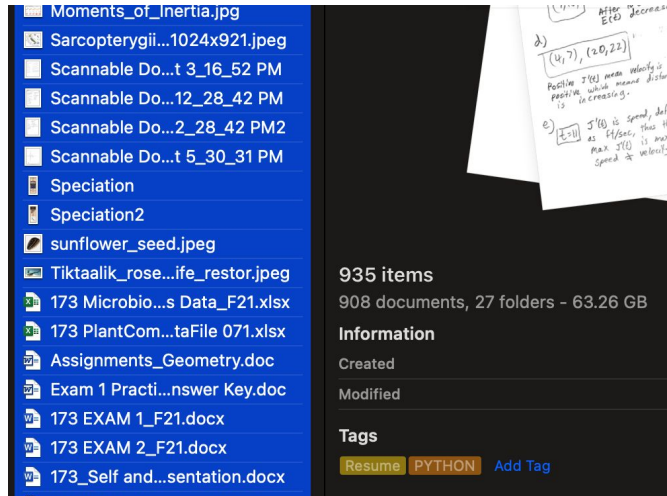# Personal File Organizer

Team TBD (The Best Developers)

The Problem...

- File systems can be messy and very disorganized
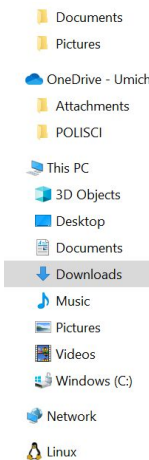- Tedious to go through each file to determine organization

The Problem...

- Additionally, once you have your files sorted, searching through them for a specific file can be a hassle
- What if you don't remember the title or a specific keyword?
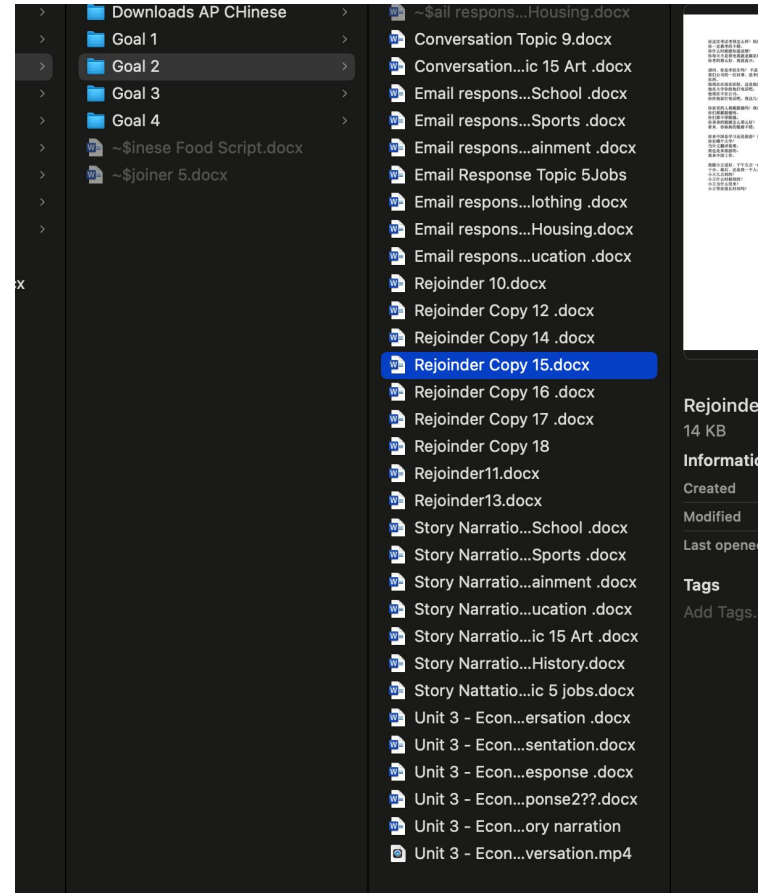
Our Solution Overview

- Develop a service that will automatically organize files
- The AI model will take in file metadata and contents as inputs, and rearranges files to be organized by initial parameters.
- Additionally, users will be able to query with an AI chat bot to help search specific ideas
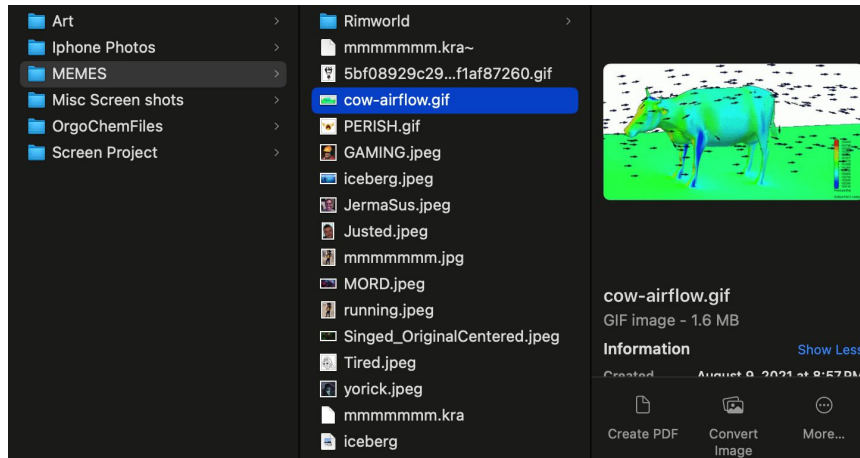
User Story

- Meet Alex
  - Occupation: Freelance writer
  - Works on multiple projects
  - Uses various file formats
  - Moderately tech-savvy, but overwhelmed by digital clutter

User Story

- Alex has a problem:
  - Over 500 files scattered across folders
  - DIfficulty finding documents
  - Lost productivity
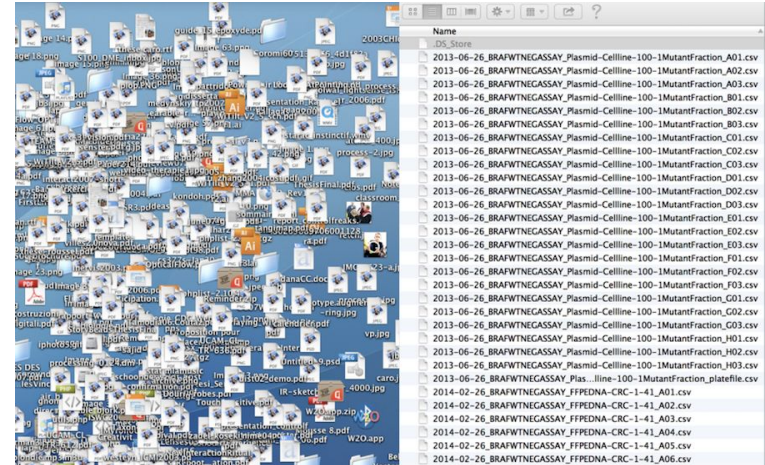
User Story

- Alex's potential needs:
  - Something that will automatically organize files
    - Certain types of files should have more priority than others, and this affects the sorting criteria
    - Needs a tool that will sort they way he wants
  - Storage management is tough
    - He's running out of space to store all his files, and doesn't know which files are important and need to be kept
    - Needs an automated tool that will suggest specific files/folders for deletion

User Story

- Alex discovers the Personal File Organizer
  - It does automated file organization, so he can talk to the AI assistant, and it can take his priorities as input
  - Sorting will also be done by content and type
  - Sorted tree diagram helps Alex visualize his file structure
  - Alex can freely add more creations to his collection
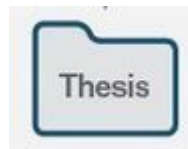 - No more clutter!

Feature: File classification system

- To organize files, we will log data on them such as a text summary, time created/last modified, file type, keywords, and more. This will then be used in tandem with our conversational portion of our AI to categorize documents into folders.

Thesis

Created: 1/1/2022
Last modified: 1/31/2024
Summary: A thesis detailing research done on genetic drift in North American antelopes.
File type: Word Document
Word count: 6,578
Keywords: antelope, genetic drift, field work, thesis, research, University of Michigan

Feature: Suggested file deletions of unimportant items

- Our system will classify files as "suspected unimportant" and allow users to review and delete them all at once.

Here is some junk, would you like to delete it?

File	Date
173_Peer Evaluation of Infographic - 173_Peer E...	4/13/2022 9:37 AM
173w22breath	3/17/2022 6:08 PM
1200px-Artwork796_SL-1982384899	11/25/2022 4:51 PM
98928dc1c7aa4b4-1952375934	8/30/2022 4:52 PM
100122-january-sunset-64440160	10/18/2023 9:41 PM
20210826_201603_HDR	10/28/2023 12:54 PM
20220103_180543	1/3/2022 6:06 PM
20231018_115741	10/18/2023 12:25 PM
26900646_Airbnb	9/26/2022 1:16 PM

Feature: Conversational method of understanding organizational goals

- Users will be able to explain what priorities they would like to have in their file organization system conversationally with an AI chatbot.

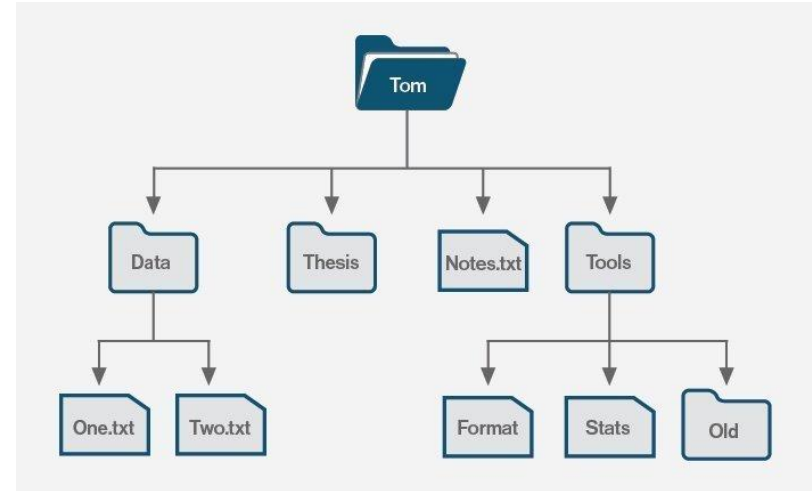Hi, how can I help you reach your organizational goals?

⊕ History is on ▷

Feature: UI to easily view the proposed organizational structure

- Our target demographic, the average person, might not be very tech savvy. Therefore, it will be important to have a system for viewing the proposed organizational changes before committing to them.

Reach Goal: File finder

- This feature would allow the user to conversationally describe a file they remember having, and our product will locate it for them based on summary, keywords, etc.
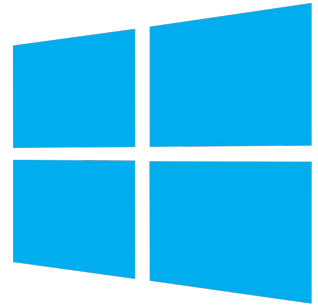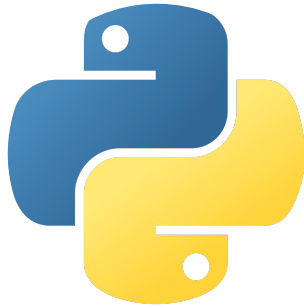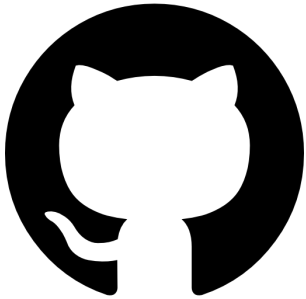
Reach Goal: Image support

- Though our system will focus on documents with text primarily, we hope to add support for images and possibly other file types as we are able.

System Architecture
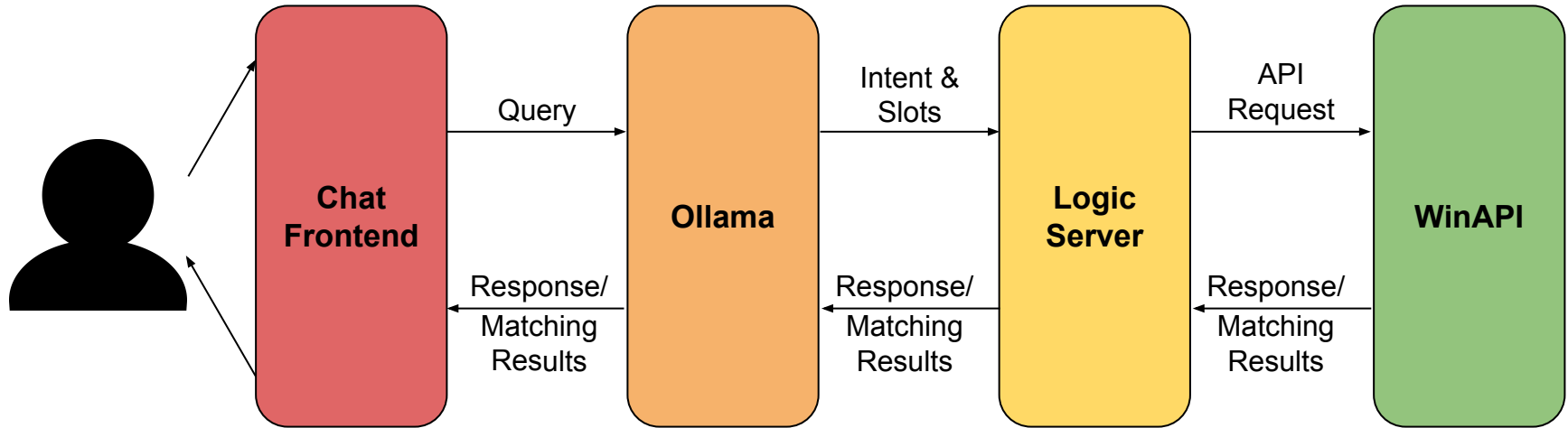
Tools/APIs We Will Use

Milestones

1. AI Model Selection and Training

2. Classification and Sorting Logic

3. Conversation AI Implementation

4. User Interface

Group Organization

Three Main Roles:

1. AI Developer
   a. Research, select and train the AI
2. Backend/Logic Developer
   a. Design the core logic that connects the AI to the file system
3. Frontend/UI Developer
   a. Design the GUI and chat frontend

Conclusion

Our **AI-driven Personal File Organizer** will making file organization an effortless and personalized experience for everyone.