Group Information

- Title of Project: PHaST Photo
- Members: Matty Pru, Buck Harris, Cody Sloan, Connor Thorpen
- Team Brand & Bio: PHaST Photo - Quickly search and sort a collection of photos with a simple text input.

Project Summary

- Summary: PHaST Photo will be a user-friendly photo management tool designed to simplify the process of organizing and finding photos within a given collection. Our application will combine image recognition AI with an easy to use interface to allow users to swiftly locate specific photos and group them into different folders whose titles will be composed of specific text prompts. It will be a means to an end of endlessly searching through one's file systems for appropriate photos and save hours of manual organization time.

- Our Niche: PHaST Photo seeks to provide its users with a straightforward solution to photo management. The simple and focused design will create an enjoyable experience for everyone, from casual users to photography enthusiasts.
- Major Components/Resources:
    - User Interface: Develop an intuitive and user-friendly interface for easy interaction with the application.
    - Image Recognition Algorithm: Implement an image recognition system to analyze and tag photos automatically. Due to time constraints we foresee the potential need to use existing software to accomplish some of this.
    - Text-Based Prompts: Create a robust search engine that allows users to find photos using directory names that will prompt the system to organize the photos using the image recognition algorithm.
    - Security: Ensure data privacy.
    - Cross-Platform Compatibility: Make the application accessible on various devices and platforms.
    - User Documentation: Create user guides and tutorials to help users maximize the utility of PHaST Photo.
    - Storage access: Make the application access all available storage types. This includes external storage.
    - File Flexibility: Photos are stored in many different file types. The application needs to recognize a predefined set of them.

Plan

- Rough Plan/Timeline:
    - Have a rough draft interface for application completed by the end of January.
        - This will involve researching best practices for desktop application GUI's, as well as implementation of soft copy for thumbnail purposes and proxied navigation. Will need to meet with Jim to discuss OS limitations.
    - Beginning of February- collect a diverse group of photographs to use in training of models
        - Will hopefully have begun reading about training image recognition ai and discussed with Lars.
        - We will need a relatively even spread of many photos to begin training our algorithm.
        - This project will likely end as a work in progress as we will only have time to train a limited number of prompts to be used as directory names.
        - We expect the training of the photo recognition to take the longest and will work on it alongside other facets of the project.
    - By early March, we should have begun integrating early models into our application in order to get a feel for UX and begin writing user instructions and putting together resources in order to make this application usable to a sufficiently broad audience.
    - By the end of March, we should have a selection of prompts that work well and can be demonstrated easily.
    - Start putting together a presentation in early April.