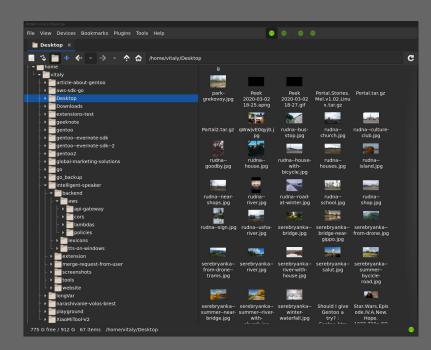Created By:

Matthew Pru
Buck Harris
Cody Sloan
Connor Thorpen

Problem to Solve

- Photos take up a lot of space

- Hard to find specific photos

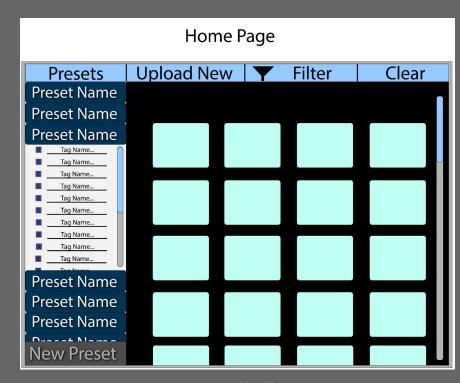- Organizing photos efficiently can be difficult

Our Idea

- Build an application to help organize large collections of photos

- Use a clean, interactive, and intuitive interface

- Implement basic features that are expected of other photo management apps

- Incorporate more advanced photo management features

Prototype for image filtering display

Preliminary Planning

- Created a model for the app

- Decided on roles for group members
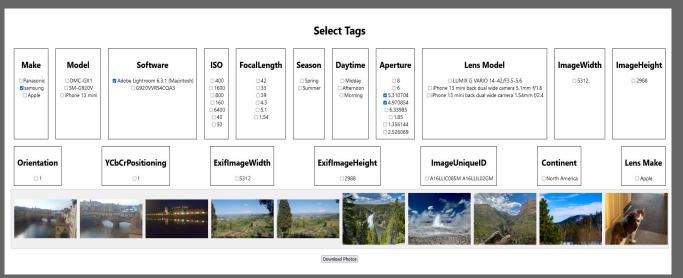
- Chose a technology stack

Prototype for landing page

Getting to Work

- We started by creating a skeleton of the project

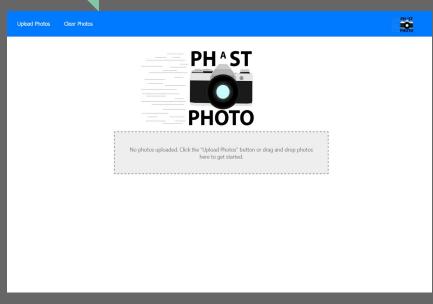- Then we worked on adding features to the display

Early version of the home/upload page

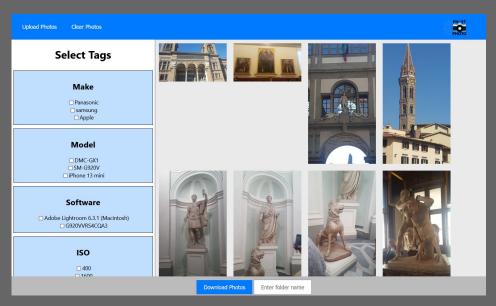*Early version of the tag selection page*

Early Challenges

- The individual roles didn't stick for long

- We lacked a sense of direction for the project

- Photos were too large to store in the database.

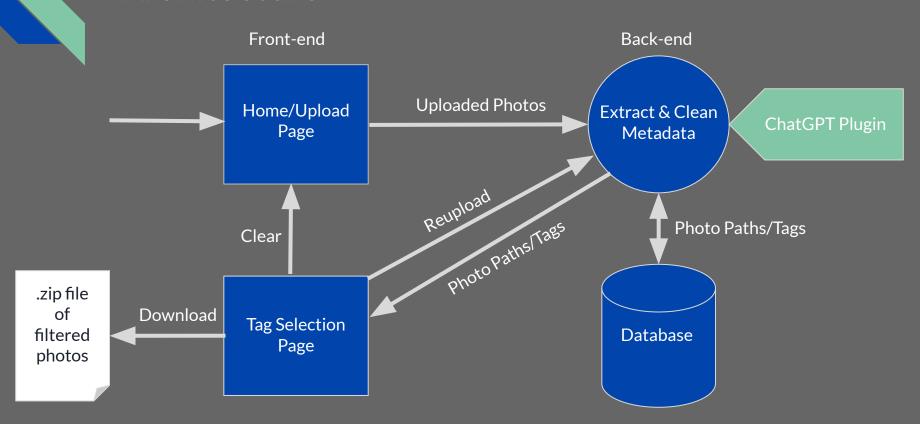- Time management and work consistency

Restructuring

Restructured home/upload page

Restructured tag selection page

Architecture

Custom Logic and Extraneous Tags

Make : Panasonic
Model : DMC-GX1
XResolution : 240
YResolution : 240
ResolutionUnit : 2
Software : Adobe Lightroom 6.3.1 (Macintosh)
ModifyDate : 1704017989
ExposureTime : 0.0015625
FNumber : 16
ExposureProgram : 1
ISO : 400
DateTimeOriginal : 1680023331
CreateDate : 1680023331
undefined : -07:00
ShutterSpeedValue : 9.321928
ApertureValue : 8
ExposureCompensation : 0
MaxApertureValue : 4.9765625
MeteringMode : 2
LightSource : 9
Flash : 16
FocalLength : 42
ColorSpace : 1
FocalPlaneXResolution : 2654.3352661132812
FocalPlaneYResolution : 2654.3352661132812
FocalPlaneResolutionUnit : 3
SensingMethod : 2
CustomRendered : 0
ExposureMode : 1
WhiteBalance : 1

DigitalZoomRatio : 0
FocalLengthIn35mmFormat : 84
SceneCaptureType : 0
GainControl : 2
Contrast : 0
Saturation : 0
Sharpness : 0
SerialNumber : F981209060079
LensModel : LUMIX G VARIO 14-42/F3.5-5.6
LensSerialNumber : 12GG42602211
ModifyDate : 1704017988
ExposureTime : 0.125
FNumber : 8
ExposureProgram : 2
ISO : 1600
DateTimeOriginal : 1682188677
CreateDate : 1682188677
ShutterSpeedValue : 3
ApertureValue : 6
MeteringMode : 5
LightSource : 0
ExposureMode : 0
WhiteBalance : 0
ModifyDate : 1704017986
ExposureTime : 0.016666666666666666
FNumber : 6.3
ISO : 800
DateTimeOriginal : 1686598646
CreateDate : 1686598646
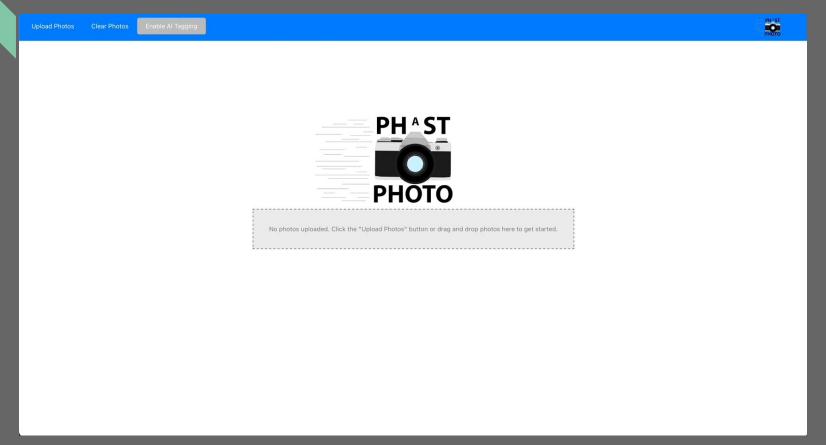ShutterSpeedValue : 5.906891
ApertureValue : 5.310704
ExposureTime : 0.004

ExposureProgram : 8
ISO : 160
DateTimeOriginal : 1686682010
CreateDate : 1686682010
ShutterSpeedValue : 7.965784
MaxApertureValue : 4.7421875
FocalLength : 33
FocalLengthIn35mmFormat : 66
GainControl : 1
Make : Apple
Model : iPhone 13 mini
GPSVersionID : 2200
GPSLatitudeRef : N
GPSLatitude : 44.714858
GPSLongitudeRef : W
GPSLongitude : -110.4973
GPSAltitude : 2370.1
GPSSpeedRef : K
GPSSpeed : 0
GPSImgDirectionRef : T
GPSImgDirection : 232.53
GPSDestBearingRef : T
GPSDestBearing : 232.53456104944502
GPSHPositioningError : 5.825138832452932
ExposureTime : 0.0005555555555555556
FNumber : 1.6
ISO : 50
DateTimeOriginal : 1688904995
CreateDate : 1688904995
ShutterSpeedValue : 10.813781
ApertureValue : 1.356144
BrightnessValue : 8.829744774708539

Artificial Intelligence
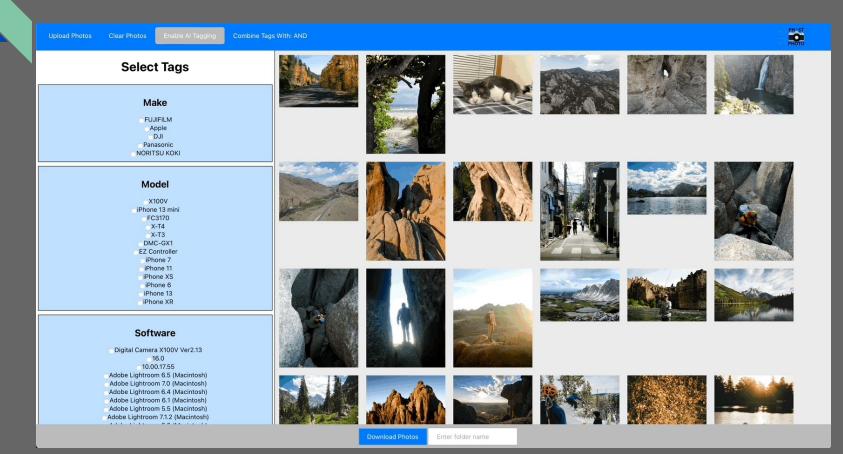
Live Updates

Boolean Search Parameters

What's Next?

- Login management system

- Persistent photo storage

- Ability to process more file types

- Manually select a photo and add a tag to it

- Cloud storage

Thank You