

The slide features a black background with a light blue border. In each of the four corners, there are several parallel diagonal lines in a light blue color, creating a dynamic, geometric pattern.

Oh, Shoot!

I forgot to make a presentation for 401...



Oh, Shoot!

just kidding!

Oh, Shoot!

Viewing photo storage through a new lens

Project Proposal
CMSI 401 Fall 2020
Jenna Berlinberg

A Snapshot of the Creator

Jenna Berlinberg

Computer Science Senior

Summer IT Intern at Hillel International

General data nerd

I promise this specific photo is relevant

Count how many camera puns I make in this presentation



The Subjects

Travis Shinn

Robyn Breen Shinn

...and Scout Thunder Shinn and Juliet,
who don't have anything to do with this,
I just included them because they're
adorable



The Subject's Subjects

@travis_shinn on instagram



The Subject's Subjects pt 2

@robynshinn on instagram



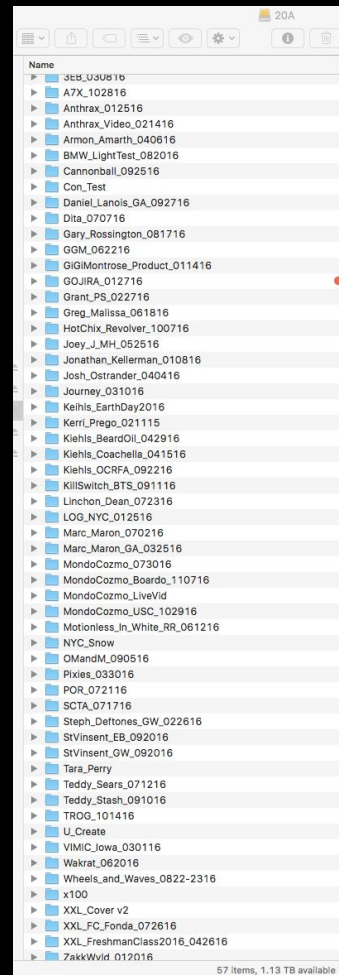
Framing the Problem

I asked if they had any part of their work that could benefit from some sort of software/database, and they mentioned the lack of simple indexing/search functions for their photoshoots.

Picture this:

200 TB of photos in external hard drives, from a total of 20 years of constant work, labeled with letters and numbers and stacked around wherever (and copies of all of them in a separate location in case of emergency), all in folders with somewhat useful names, but you have no way of checked which is in what without plugging in and opening each hard drive and hoping it was the specific Marilyn Manson photoshoot you were looking for because you've done so many with him, and you think it was around 2016? But could've actually been 2012... or this job offer wants you to send examples of your work involving the beach, but by the time you get it to them, the job has been given to someone else, and you just wasted a ton of time digging for them.

A file system that will make you shutter



This file system is awful. We should nuke it. I guess that would make it a... macrowave



Posing a Solution

If only they had a way to store information about their photoshoots without paying an obscene amount per year to do it with the actual photos involved... They don't need that much, but a place to search through the general info on the shoots that can then tell them where to go in their own storage system would do the trick.

There are very few similar options available- one that requires all of the hard drives to be plugged in, and one for invoices/budgets written in FileMaker Pro that is so ancient it's probably in sepia tones by now. It usually requires hiring a tech-proficient intern, which many photographers don't have the money for.

I came along, needed a project, having worked in IT, took Interaction Design last year, am currently in a databases class... a flash of inspiration!

That is how Oh, Shoot! was born!

A High Definition Resolution


Oh, Shoot! will be an accessible photoshoot metadata database for photographers.

The database will contain the info on the photoshoot, including the date, tags on the subject, invoices, contracts, preview photo, and the location of the files. The location is a manual insert since most photographers have their own distinct ways of storing them, and getting them on the database is not feasible, and just way out of scope.

The front end will be in React, the database in PostgreSQL, and the go between will likely be GraphQL. User authentication software TBD. The server will live on either AWS or my custom build. The front end allows the user to create, edit, or delete their photoshoot objects, and search through the tags of all objects. The key parts are the search feature, as well as the ability to attach relevant business-related documents.

I am comfortable using SQL and playing around with data, so most of the learning I need to do is based on optimizing search, connecting the front-end to the database, user authentication, and familiarizing myself with the hardware.


Developing a New Lens

Attribute name	Description	Example
Date	Date of the photoshoot	03-05-2018
File location	Relates to however the photographer stores their data	22A
Contracts/Invoices/Crew Contacts	Business related documents	A list of contacts of the staff involved, a copy of the contract with XXL Magazine
Tags	List of keywords describing the photoshoot	{‘21 Savage’, ‘G-Eazy’, ‘XXL’, ‘Smoke’}
Preview photo	A representative photo or two from the shoot	

...and more TBD, based on the feedback I get from my aunt and uncle.

Further Exposure

- Make it more accessible for non-professional photographers
 - Documents are not required
- Improve and extend front-end design- likely to be simple due to time
- Add calendar/scheduling, making photoshoot objects in advance, collaborating
- Add more personalization for users
- If more data validation is needed, code a custom API
- A separate 'tags' database, relational dataset (idea creds to Dondi)
- Possible machine learning data for 'densely labeled' datasets? (idea creds to Forney)



Thank you for focusing on
my presentation!

I hope you look forward to seeing
this... develop.

