**CS35L Fall 2021**

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**ChromaShare Project Proposal**

ChromaShare is a Web app that allows people to store photos in a better way and share them with their friends.

It offers more options for customization than the default, already-installed photos apps on phones.

Instead of putting a photo into an album on their phone, users can decide to tag

a photo with many relevant tags and then perform advanced searches to find instantly what they're looking for. This will let them easily access

memories of events and locations they have visited; in addition, they can easily search

for photos related to various themes.

**Features:**

**Upload data from Client to Back-end:**

* Upload photos

We will allow users to upload photos to the Webb app and share them if they decide to.

**Display Dynamic Data to the User:**

* Assing tags to a photo

We allow users to tag photos and add/edit notes to their pictures

**Meaningfully search through server-side data:**

* Search for tags and see related photos

We will allow users to do simple using tags searches or advanced searches by title, notes, and color composition.

* Create an account with a username and password
* Automatically tag photos based on color composition
* Report inappropriate content
* Recommend tags based on color histograms photos you shared
* Assign the most popular color in each picture

**Technologies & Architecture:**

* **Python**
* **MongoDB**
* **React**
* **JSON API**
* **OpenCV**

