Problem description

Problem Statement

Many photographers have two types of accounts, namely social media accounts, and photos stock website accounts, which require them to upload the same photo twice on different platforms. If photographers are able to upload their photos to two platforms simultaneously, then they no longer need to open two websites and click repeatedly.

Objective

A database that manage the photos that photographers uploaded to it, while storing the pictures with the related EXIF data for future updating purposes. The process will read photos uploaded to social media account, store them to the database, and upload to photo stock websites with a click.

Tables and Their Roles:

- 1. Photos: Stores information about each photo including its dimensions, location where it was taken, and other descriptive data.
- 2. Photo tags: Contains tags associated with each photo for easier categorization and searchability.
- 3. Photographers: Holds details about photographers such as their name and contact information.
- 4. Photographer account: Links photographers to their accounts on social media platforms and photo stock websites.
- 5. Time for posting: Manages scheduling for posts, allowing photos to be uploaded at specific times.
- 6. Authentication: Stores authentication details necessary for accessing the artist's social media and photo stock website accounts securely through APIs.
- 7. Camera information: Stores information about the camera used for taking a photograph, including model name and lens type.

Identified Nouns:

- Photographers
- Photos
- Process
- Database
- Photo stock websites
- Social media account

Identified Actions

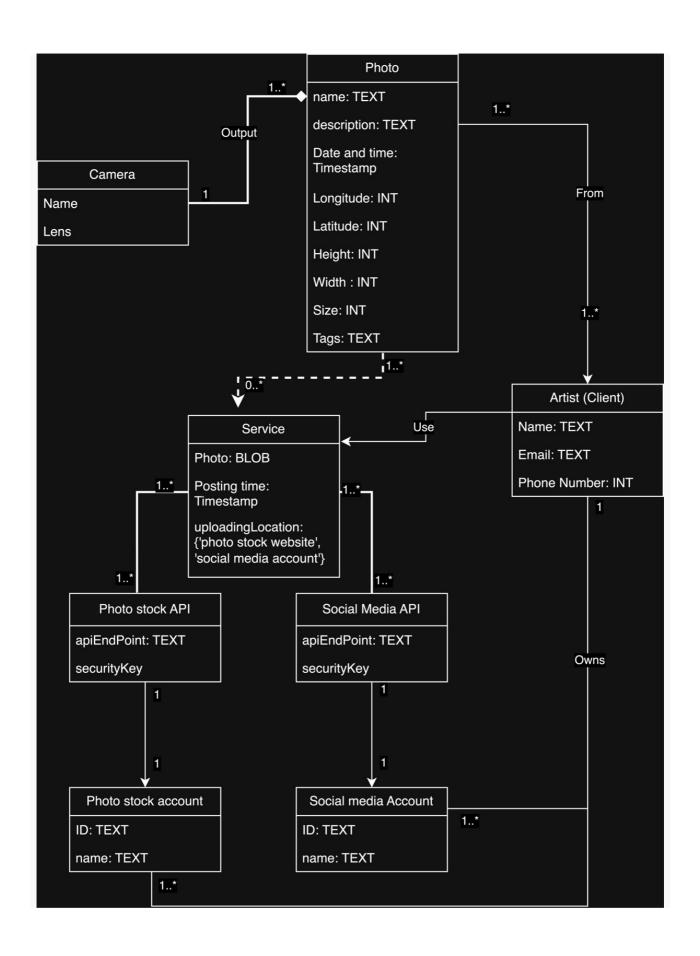
update

- simplifies
- upload
- storing
- enable

Feature Summary

- 1. Uploading Photos: Photographers can upload photos directly through this platform instead of visiting each platform individually.
- 2. Batch Uploading: Photographers can upload a batch (series) of photo through this platform to different platform.
- 3. Scheduling Uploads: Allows setting specific times when photos should be posted automatically.

UML Diagram



Describe the Redis data structures that you are going to use to implement the functionalities you described in the previous point.

- The data structures I'm going to implement are a scheduled uploading database for the photographers. The descriptions are the following:
- 1. Photographer's Uploads (List):
 - Key: "recentUploads:artist_ld"
 - Elements: photo IDs of selected and uploaded photos by a photographer
 - Description: This DB is used to upload the contents to the database, for the photographer to select and upload the photos.

The photos could be restricted to a certain number, in this example, 10 photos for batch uploading at one time.