Edona Mujaj U32335536 Selin Aslangul

The final report should include the final schema, additional assumptions that you make during the implementation, and the limitations of your system (what functions are implemented and what are not)

Some limitations and assumptions of our system:

Assumption 1: User will only attempt to like a photo once

Assumption 2: assumption that is made in our application is that photos are only added to pre existing albums. This may also count as a limitation of our system as you cannot upload a photo and create an album at the same time, first the album needs to be created and then photos can be uploaded.

Tags are assumed to be separated by photos

Another assumption that is made is that if someone is trying to add a friend, the friend already has an account. This also has the limitation that you run into an error message if you were to mistype an email address or something like that. Additionally, friends can only be searched by exact email addresses, and not names etc.

Assumption/limitation: assuming all comments are from users/ comments can only be made by users

Additionally, if users delete albums or photos, we have no way of freeing up that album ID number or the photo number. This affects the user contributions as well (i.e user uploads 2 photos but deletes one, we still count 2 photos)

Another limitation that could possibly be faced is when we have an overload of users/photos/tags to index. This number is currently an unknown amount but I figured it was worth mentioning as a limitation of the project implementation

Limitation- comments cannot be edited or deleted

Another limitation is navigation out of certain pages i.e album and photo upload, requires clicking thought the navi or just changing the html template youre operating on

```
The final Schema of our project:
```

```
CREATE DATABASE IF NOT EXISTS photoshare;
USE photoshare;
DROP TABLE IF EXISTS Pictures CASCADE;
DROP TABLE IF EXISTS Users CASCADE;
CREATE TABLE Users (
  user id int4 AUTO INCREMENT,
  email varchar(255) UNIQUE,
  firstName VARCHAR(100),
  lastName VARCHAR(100),
  birthDate DATE,
  homeTown VARCHAR(100),
  homeTownState VARCHAR(100),
  hometownCountry VARCHAR(100),
  currentCity VARCHAR(100),
  currentState VARCHAR(100),
  currentCountry VARCHAR(100),
  password varchar(255) NOT NULL,
 CONSTRAINT users pk PRIMARY KEY (user id)
);
CREATE TABLE Friends(
 user id1 INTEGER,
 user id2 INTEGER,
 PRIMARY KEY (user id1, user id2),
 FOREIGN KEY (user id1)
 REFERENCES Users(user id),
 FOREIGN KEY (user id2)
 REFERENCES Users(user id)
);
CREATE TABLE Pictures
 picture id int4 AUTO INCREMENT,
 user id int4,
 imgdata longblob,
 caption VARCHAR(255),
```

```
INDEX upid idx (user id),
CONSTRAINT pictures pk PRIMARY KEY (picture id)
);
CREATE TABLE Albums(
albums id INTEGER AUTO INCREMENT,
name VARCHAR(100),
date DATE,
user id INTEGER NOT NULL,
PRIMARY KEY (albums id),
FOREIGN KEY (user id)
REFERENCES Users(user id)
);
CREATE TABLE Tags(
tag id INTEGER AUTO INCREMENT,
name VARCHAR(100),
PRIMARY KEY (tag id)
CREATE TABLE Tagged(
photo id INTEGER,
tag id INTEGER,
PRIMARY KEY (photo id, tag id),
FOREIGN KEY(photo id)
REFERENCES Photos (photo id) ON DELETE CASCADE,
FOREIGN KEY(tag id)
REFERENCES Tags (tag id)
);
CREATE TABLE Comments(
comment id INTEGER AUTO INCREMENT,
comment VARCHAR(100),
photo id INTEGER NOT NULL,
user id INTEGER NOT NULL,
PRIMARY KEY (comment id),
FOREIGN KEY (photo id) REFERENCES Photos (photo id) ON DELETE CASCADE,
FOREIGN KEY (user id) REFERENCES Users (user id)
);
CREATE TABLE Likes(
like id INTEGER AUTO INCREMENT,
photo id INTEGER NOT NULL,
user id INTEGER NOT NULL,
```

```
PRIMARY KEY (like_id),
FOREIGN KEY (photo_id) REFERENCES Photos (photo_id) ON DELETE CASCADE,
FOREIGN KEY (user_id) REFERENCES Users (user_id)
);
INSERT INTO Users (email, password) VALUES ('test@bu.edu', 'test');
INSERT INTO Users (email, password) VALUES ('test1@bu.edu', 'test');
```