HU3910
Serial Number Database
E23 Group
6/27/2023

Summary of the Previous Version

The project aims to create a platform for musicians to register and track their instruments. It allows users to create an account with an email address. The main functions of this platform include "Adding" instruments with specific descriptions and tags to the account, claiming the status of instruments (stolen or in possession), "checking" instruments with serial numbers and contacting other users.

D22 Group Added

1. Being able to search not just by serial number but also by categories
2. Different instruments can have the same serial number - could be dual primary key Handling duplicate serial numbers.
3. Added "category" and "color" tags in "Add".
4. Added the ability to check by any of the fields that we add to an instrument.

Updates of the Current Version

1. We attempted to enable the log in page in the website, but since some of the features are hard coded to use google OAuth, and the application can not run on local computers, it is currently unable to achieve this.
   a. Additionally it will log into a default account if the login attempt fails currently which will need to be changed eventually/checked after working with OAuth
2. We attempted to attach images to each user's page, but due to the site being unable to run locally without issues, and our group being unable to get the login working, we were not able to achieve this.
3. We have made a resource to host the site on Digitalocean. It required permissions to access Github, but we could not give the permissions so it should be ready once permissions are given.
   a. These permissions may need to be re-requested as they may be on an individual as when requested it required access to one of our github accounts individually

Issues

1. The application needs github permission to run on a server
2. The login page might require running on a server to work due to using Google OAuth
3. The upload image might require login to work properly rather than the default account
   a. Additionally may require actual internet access to host images/view images already online
4. It is recommend to assign all student a github repo permission in the beginning of the term
5. For running locally make sure you have the latest version of npm
   a. May need to use another program to install it
6. Some of the modules used to create the webpage are outdated and need to be replaced with the newer version which is still receiving updates
   a. The automatic repair cannot fix this, it just causes more issues

How to run locally

These instructions are specifically for Windows
1. Download the files from the github
   a. The current ones are called sndb_frontend
2. Open up either command prompt or PowerShell
3. Navigate to the folder containing the files
   a. Use the "cd" command
      i. Alternatively use things such as "d:" if it is in a different drive
   b. Make sure you wind up in the sndb_frontend folder
4. Type "npm i" and hit enter to initialize/download the required modules
5. Type "npm start" to launch it fully and host it on localhost

Future developments

1. Uploading images
2. Fixing the login issues
3. Ensuring that Digitalocean permissions are operating correctly
4. Database runs on the new server

To Take Over…

1. See if droplet on Digitalocean is up and running. Make sure permissions for the git repository are given
2. Clone the git repository (you will need some proficiency with git)
3. Set up the development environment
   It was a bit confusing when our group tried getting started, so here are some tips.
   To get started, go to the Git Repository and read through the readme file.
   You will need to install Docker and VScode.
   The latest code is under the master branch.
   The project keeps being passed from group to group, so some comments might not be specific enough. Check out the Section 0 file structure to get started.
   Use the commands in the ReadMe to:
   - Build a Docker Image
   - Create the Bridge Network
   - Create a new MongoDB container
   - Run the `sndb_service:1.0` Docker image in a new container
   - Run the web_app either containerized or non containerized