HU3910 Serial Number Database D22 Group 4/26/2022

#### 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.

E21 group tried to create an image uploading system and you can see an image upload button in "Add", but it's not functioning so far.

Instrument Nickname	My Guitar
Serial #	GX-123456
Description	Scratch on the outer edge of the guitar, initials on back of body.
Make	Gibson
Model	ES-175
Year	1994
Status	In My Possession
Images	Upload files

# Add Instrument

## fig.1 Previous "Add"

	Instrument Nickname	My Guitar	
	Serial #	GX-123456	
	Description	Scratch on the outer edge of the guitar, initials on back of body.	
	Category	Guitar	
	Make	Gibson	
	Model	ES-175	
	Color	Blue	
	Year	1994	
	Status	In My Possession 🗸	
	Images	Upload files	
		Add Instrument	
		C O I I I "A I I"	



Quick Check
GX-45628957289
Check

fig.3 Previous "Check"

SerialNumberDB Dashboard	Check Add	
	Quick Check Enter Instrument Specifications to Search By seriel Number	3/2
	GX-45628957289	
	Make	
	Gibson	
14	Model	
1122	ES-175	
1 A A	Year	
1199	1994	
12910	Color	
	Blue	
	Category	
	Guitar	
	Check	

fig.4 Updated "Check"

# Updates of the current version

Being able to search not just by serial number but also by categories

Different instruments can have the same serial number - could be dual primary key Handling duplicate serial numbers.

Added "category" and "color" tags in "Add".

Added the ability to check by any of the fields that we add to an instrument.

## Issues

We decided to focus on front-end developments during this project. Because of this, we have the website looking good for the ADD and CHECK pages, but the info does not pass into the database correctly yet.

## Future developments

Utilize Ebay, reverb, craigslist crawlers to get notified when any an instrument with matching criteria gets posted

• Ideally, we can specify the matches that we want to be notified for. Ex: any bass, or just a fender bass

Upload images through cloudinary

Deploy entire database to digital ocean, so it isn't just on a wpi system

#### To take over...

- 1. If <u>https://serialnumberdatabase.wpi.edu/</u> is not up and running, contact Emerald Toto from IT to start the Docker image that runs the website.
- 2. Clone the git repository (you will need some proficiency with git)
- 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 <u>readme</u> file.
   You will need to **install Docker and VScode**.
   The latest code is under the <u>master</u> branch.
   The project keeps being passed from group to group, so some comments might not be specific enough. Check out the <u>Section 0 file structure</u> to get started.



#### fig.5 Section 0: File Structure

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



## 4. Testing

Test changes by right clicking on the docker-compose.yml file on the left side bar in vs code and click "Compose Up" to run either the containerized or non-containerized docker image depending on how you set up your environment (we used the containerized setup) Then open Docker and you should see the database build.

- Once you have the docker container running, you can run the launch.json file in vs code. This will run the website on your local host.
  - Be sure to have either line 5 or 6 in the .env file uncommented depending on if you are running it containerized or non containerized
- When you are happy with your changes, push them to the remote origin master branch in git.
- Once the master branch has your changes, <u>https://serialnumberdatabase.wpi.edu/</u> should reflect them as well.