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Introduction to File Structures and Databases

6 December 2023

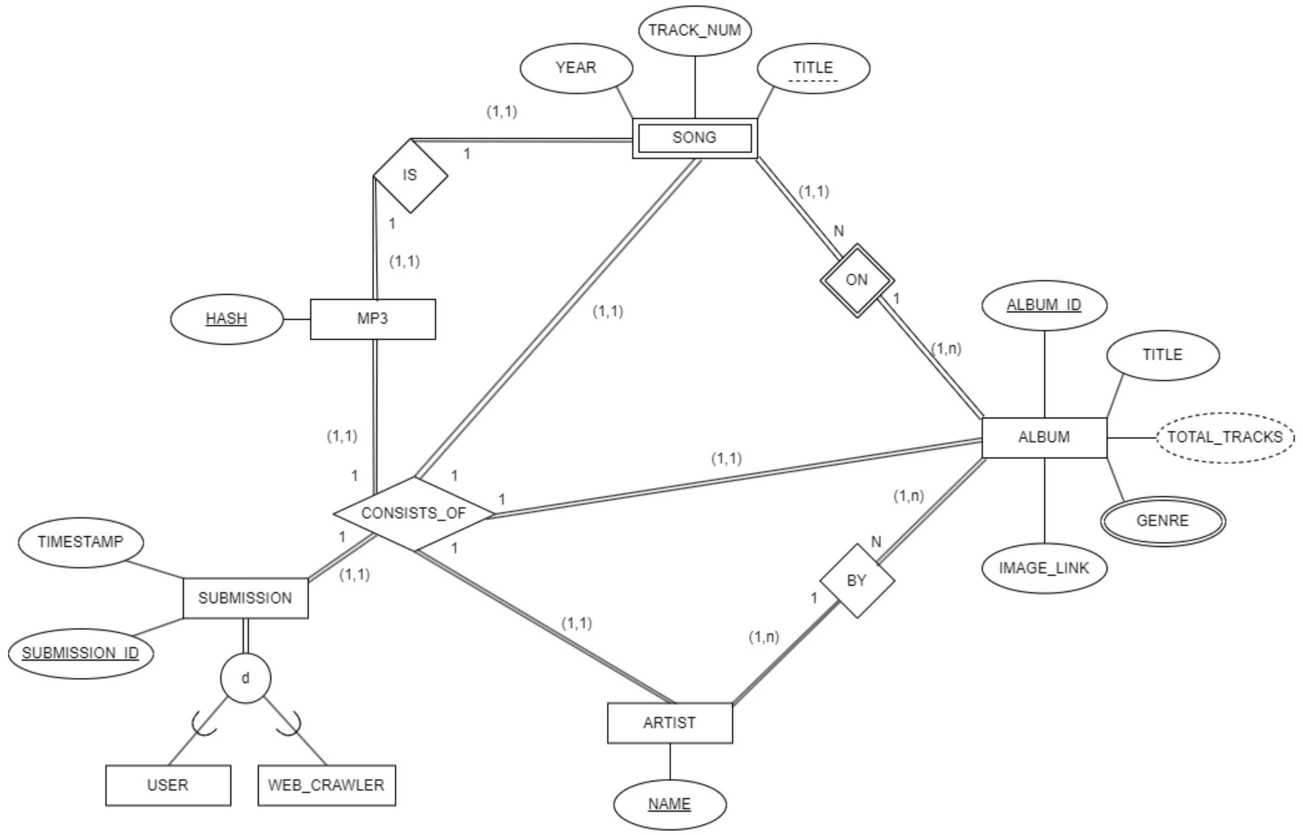
Database Application For Tunes:

ID3Tag Lookup Database

Revised Problem Statement

The metadata associated with audio files in the MP3 format, commonly adhering to the ID3 standard, has seen several iterations over the years and can be used to attribute up to 63 distinct informational fields. However, since the standard is not officially part of the MP3 format, many sources of audio tracks do not include ID3 tags, resulting in the task of categorizing falling on the shoulders of individuals compiling audio collections for personal or commercial use. This task, particularly the retrieval of the relevant information, becomes arduous even for a handful of files. We propose the development of a command-line tool for fetching a limited set of ID3 tags associated with a given user-provided query and returning the metadata in an easily parsable format.

Revised Conceptual Database Design



The model above was updated to more accurately reflect participation constraints. In the diagram above the following assumptions are made:

1. An artist is uniquely identifiable by their name.
2. Every song (including singles) belongs to one album.
3. No two songs on the same album can share the same name.
4. An artist cannot make 2 albums by the same name
5. Only one artist can contribute to an album (although, creating a separate artist i.e. “Person 1 & Person 2” would work)

Functional Requirements

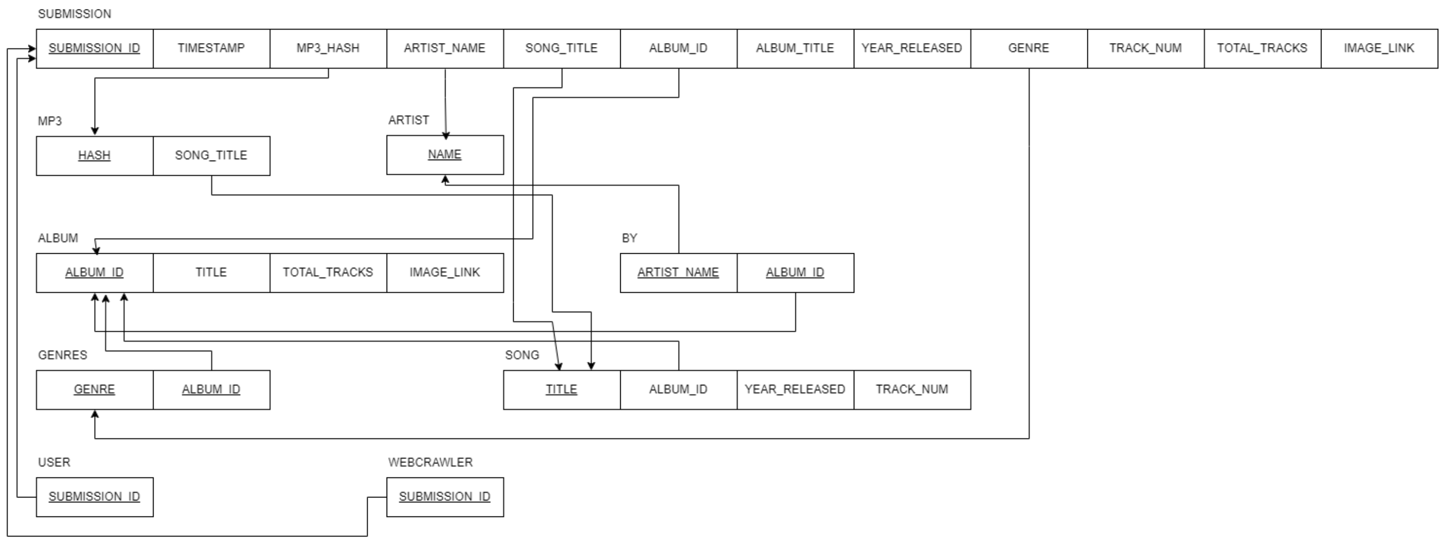
The following is a revised overview of the functions our proposed application would provide:

1. Allow users to query the database via a command line interface and automatically append the relevant ID3 tags or print an appropriate error message. We propose support for queries of arbitrary MP3 files (on which a hash search is performed.)
2. Automated data aggregation through the use of a web crawler bot. This program would acquire relevant data from relevant websites such as YouTube, Spotify, Wikipedia, Genius, etc.
    - 2.1. Proposed tags include Artists, Title, Album, Number of Tracks on Album, Track Number, and Album Art Image Link.
3. A script for processing MP3 files. Essentially, this would accept an MP3 file from the user, query the database via the file-hash lookup method, and allow the user to append the

retrieved data to the end of the input files or supply the information to the database should it not already be there.

4. A graphical user interface running the script mentioned above, allowing users to submit entries into the database (through manual submission or automatic JSON submission), edit or delete entries, or append relevant ID3 tags to a submitted mp3, should it be in the database already.
5. In order to verify the veracity/integrity of the metadata provided, users are allowed to adjust information that they believe to be false.

Revised Logical Database Design



Revised Summary Table of Data Types

Table	**Attribute**	**Type**	**Constraint**
SUBMISSION	SUBMISSION_ID	INT	Primary Key
SUBMISSION	TIMESTAMP	TIMESTAMP	NOT NULL
SUBMISSION	MP3_HASH	STRING	Foreign Key
SUBMISSION	ARTIST_NAME	VARCHAR(255)	Foreign Key
SUBMISSION	SONG_TITLE	VARCHAR(255)	Foreign Key
SUBMISSION	ALBUM_ID	INT	Foreign Key
SUBMISSION	ALBUM_TITLE	VARCHAR(255)	NOT NULL
SUBMISSION	YEAR_RELEASED	INT	NOT NULL
SUBMISSION	GENRE	VARCHAR(255)	Foreign Key
SUBMISSION	TRACK_NUM	INT	
SUBMISSION	TOTAL_TRACKS	INT	
SUBMISSION	IMAGE_LINK	TEXT	
MP3	HASH	VARCHAR(255)	Primary Key
MP3	SONG_TITLE	VARCHAR(255)	Foreign Key
ARTIST	ARTIST_NAME	VARCHAR(255)	Primary Key
ALBUM	ALBUM_ID	INT	Primary Key
ALBUM	ALBUM_TITLE	VARCHAR(255)	NOT NULL
ALBUM	TOTAL_TRACKS	INT	NOT NULL
ALBUM	IMAGE_LINK	TEXT	NOT NULL
ALBUM_BY_ARTIST	ARTIST_NAME	VARCHAR(255)	Foreign Key
ALBUM_BY_ARTIST	ALBUM_ID	INT	Foreign Key
GENRES	GENRE	VARCHAR(255)	Primary Key
GENRES	ALBUM_ID	INT	Primary Key
SONG	TITLE	VARCHAR(255)	Primary Key
SONG	ALBUM_ID	INT	Foreign Key
SONG	YEAR_RELEASED	INT	NOT NULL
SONG	TRACK_NUM	INT	
USER	SUBMISSION_ID	INT	Foreign Key
WEBCRAWLER	SUBMISSION_ID	INT	Foreign Key

Revised Application Program Design

```
submitMP3() //user has submitted an MP3
//checks for duplicate hashes in database
if (duplicates):
        //gather and display information for user, including a sum of all the songs submitted into the database from that album
else:
        //switch to information gathering screen to get data from user

insertSubmission(): //user has manually entered information to be stored on info gathering screen
//checks for duplicate album in database, adds new entry if it doesn't exist
//checks for duplicate artist, then adds entry if it doesn't already exist
//checks for duplicate song on album, adds entry if it doesn't exist
//inserts genre
//inserts mp3
//inserts into submission and user_submission
//switches to main screen

editSubmission()  //Ran if the user needs to edit an entry into the database
//Retrieves data from old submission and gathers data for edited submission
//runs deleteSubmission
//runs insertSubmission
//The reason for doing it this way might not seem immediately clear, but due to the nature of our database, our submission is made up of nearly entirely foreign keys, and so deleting and reinserting it made for an easier edit, as this replicates the action with functions already made.

deleteSubmission()  //Ran if the user needs to delete an entry from the database
//deletes old entry, while also cleaning things up, like deleting an album with no songs or an artist with no albums

appendTags()  //Ran if the user wants to append the tags stored in the database to their MP3
//appends tags to the MP3 in question
```

Aggregation Functions

Get Max ID: Used to generate a new ID for both submissions and albums. Iterates through the list of submissions/albums and finds the highest ID value, then attributes the album/submission to be added this highest value plus one.

Installation Guide (For Windows)

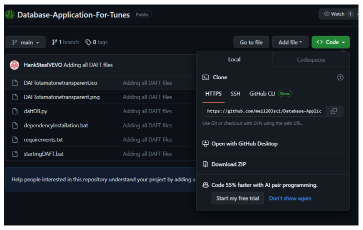
1. Downloading DAFT and Installing Python:

a. First, click the Code button and download the ZIP file from the GitHub page at: https://github.com/me11203sci/Database-Application-For-Tunes

b. If Python isn't already installed on your computer, the first step is to make that happen! Go to this link: https://www.python.org/downloads/release/python-3117/ and download the Windows installer for your system (Windows installer (64-bit) is recommended).

c. Open the installer and click "Install Now"

d. Python has been installed! Move on to the next step.

1a) 

Database-Application-For-Tunes Public

main 1 branch 0 tags Go to file Add file Code

HankSteelVEVO Adding all DAFT files

DAFTotamatonetransparent.ico	Adding all DAFT files
DAFTotamatonetransparent.png	Adding all DAFT files
daftDB.py	Adding all DAFT files
dependencyInstallation.bat	Adding all DAFT files
requirements.txt	Adding all DAFT files
startingDAFT.bat	Adding all DAFT files

Help people interested in this repository understand your project by adding a

Local Codespaces

Clone

HTTPS SSH GitHub CLI New

```
https://github.com/me11203sci/Database-Applic
```

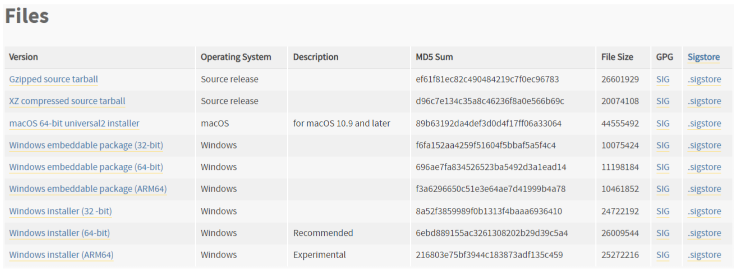
Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

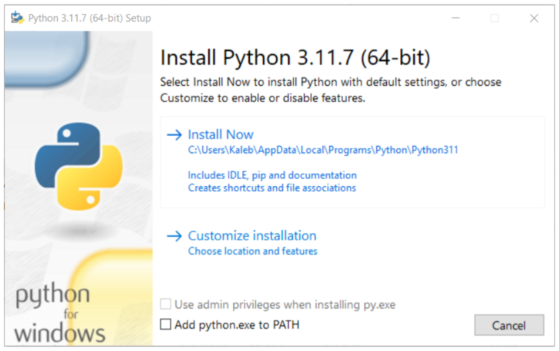
Code 55% faster with AI pair programming.

Start my free trial Don't show again

1b) 

Files

Version	Operating System	Description	MD5 Sum	File Size	GPG	Sigstore
Gzipped source tarball	Source release		ef61f81ec82c490484219c7f0ec96783	26601929	SIG	.sigstore
XZ compressed source tarball	Source release		d96c7e134c35a8c46236f8a0e566b69c	20074108	SIG	.sigstore
macOS 64-bit universal2 installer	macOS	for macOS 10.9 and later	89b63192da4def3d0d4f17ff06a33064	44555492	SIG	.sigstore
Windows embeddable package (32-bit)	Windows		f6fa152aa4259f51604f5bbaf5a5f4c4	10075424	SIG	.sigstore
Windows embeddable package (64-bit)	Windows		696ae7fa834526523ba5492d3a1ead14	11198184	SIG	.sigstore
Windows embeddable package (ARM64)	Windows		f3a6296650c51e3e64ae7d41999b4a78	10461852	SIG	.sigstore
Windows installer (32 -bit)	Windows		8a52f3859989f0b1313f4baaa6936410	24722192	SIG	.sigstore
Windows installer (64-bit)	Windows	Recommended	6ebd889155ac3261308202b29d39c5a4	26009544	SIG	.sigstore
Windows installer (ARM64)	Windows	Experimental	216803e75bf3944c183873adf135c459	25272216	SIG	.sigstore

1c) 

Python 3.11.7 (64-bit) Setup

Install Python 3.11.7 (64-bit)

Select Install Now to install Python with default settings, or choose Customize to enable or disable features.

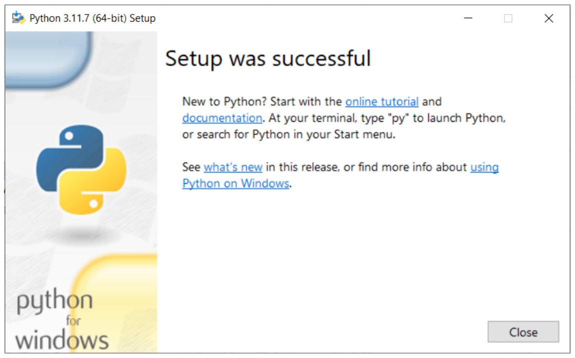
→ Install Now
C:\Users\Kaleb\AppData\Local\Programs\Python\Python311

Includes IDLE, pip and documentation
Creates shortcuts and file associations

→ Customize installation
Choose location and features

☐ Use admin privileges when installing py.exe
☐ Add python.exe to PATH

Cancel

1d) 

Python 3.11.7 (64-bit) Setup

Setup was successful

New to Python? Start with the online tutorial and documentation. At your terminal, type "py" to launch Python, or search for Python in your Start menu.

See what's new in this release, or find more info about using Python on Windows.

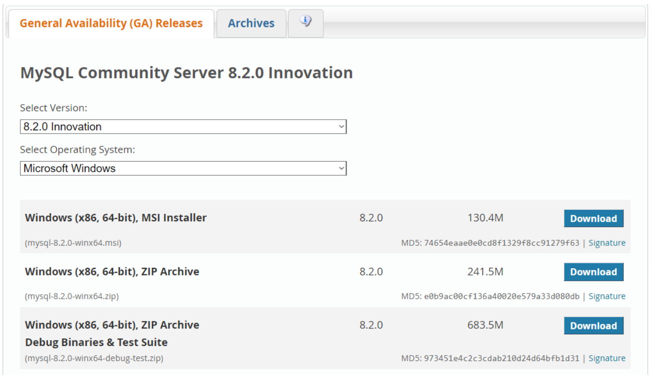
Close

2. Installing your MySQL database

a. First, we will be downloading a MySQL Server, do so at the following link via the MSI Installer: https://dev.mysql.com/downloads/mysql/

b. Open the installer, click next until the Choose Setup Type screen, then select Typical, then Install. Once the download is finished, it will open the MySQL Configurator.

c. Once the configurator is open, keep selecting next until the Accounts and Roles screen is available. It will ask for a root password, pick a password and remember it. Continue clicking next, until you are prompted with Execute, which you will also click. Click Next, and then Finish. Your database is almost ready to go!



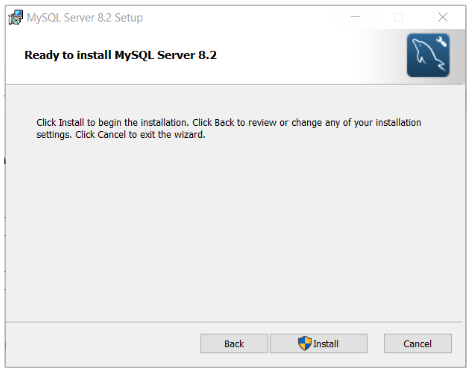
MySQL Community Server 8.2.0 Innovation

Select Version: 8.2.0 Innovation

Select Operating System: Microsoft Windows

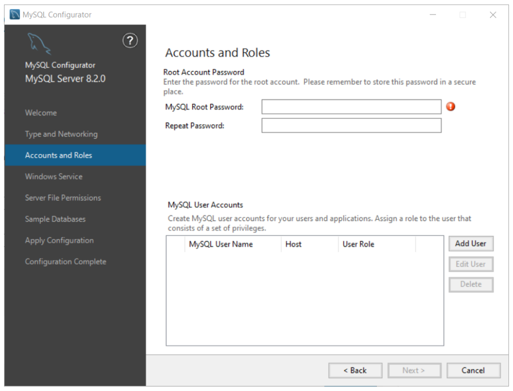
Windows (x86, 64-bit), MSI Installer (mysql-8.2.0-winx64.msi)	8.2.0	130.4M	Download MD5: 74654eaae0e0cd8f1329f8cc91279f63 | Signature
Windows (x86, 64-bit), ZIP Archive (mysql-8.2.0-winx64.zip)	8.2.0	241.5M	Download MD5: e0b9ac00cf136a40020e579a33d080db | Signature
Windows (x86, 64-bit), ZIP Archive Debug Binaries & Test Suite (mysql-8.2.0-winx64-debug-test.zip)	8.2.0	683.5M	Download MD5: 973451e4c2c3cdab210d24d64bfb1d31 | Signature

2a)

2b) 
MySQL Server 8.2 Setup

Ready to install MySQL Server 8.2

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.

2c) 
MySQL Configurator

Accounts and Roles

Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password:
Repeat Password:

MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL User Name	Host	User Role

3. Downloading MySQL Workbench

a. To download MySQL Workbench, go to the following link and download via the MSI Installer: https://dev.mysql.com/downloads/workbench/

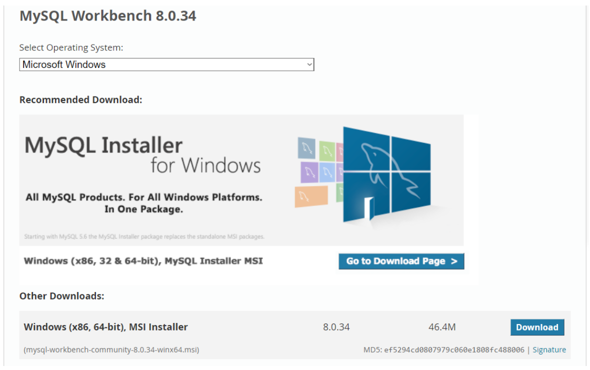
b. Open the MySQL Workbench Installer and click Next until you reach the Ready to Install the Program screen. Click Install. Once it is done, let it launch MySQL Workbench.

c. Once you've opened MySQL Workbench, if there is not already a MySQL Connection, click Rescan servers, and one should appear. Click on it.

d. It should prompt you for a password, and you should enter the password you created in Step 2c. If, after clicking on your server, it instead takes a while to load and you are taken to a screen that says "Server Status: Stopped", continue with step 3d, otherwise, move to Step 4.

   i. First, open the Task Manager and go to the Services tab. If you do not see the Services tab, select More Details at the bottom. Once you've done this, scroll down until you see "MySQL##". If it is stopped, right click it and select Start.

   ii. Once this is done, go back to your MySQL Workbench, select the home icon in the top left corner, and continue with Step 3c.



MySQL Workbench 8.0.34

Select Operating System:

Microsoft Windows

Recommended Download:

MySQL Installer for Windows

All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages

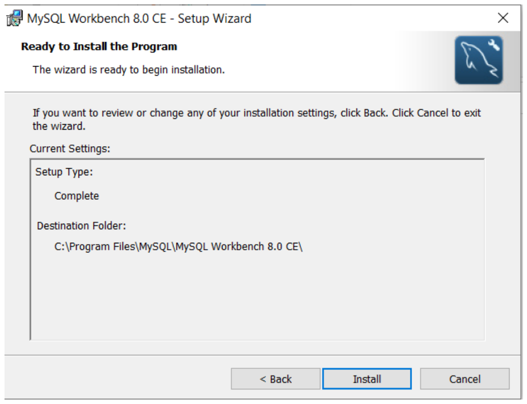
Windows (x86, 32 & 64-bit), MySQL Installer MSI — Go to Download Page >

Other Downloads:

Windows (x86, 64-bit), MSI Installer — 8.0.34 — 46.4M — Download

(mysql-workbench-community-8.0.34-winx64.msi) — MD5: ef5294cd0807979c060e1808fc488006 | Signature

3a)



MySQL Workbench 8.0 CE - Setup Wizard

Ready to Install the Program

The wizard is ready to begin installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Current Settings:

Setup Type:

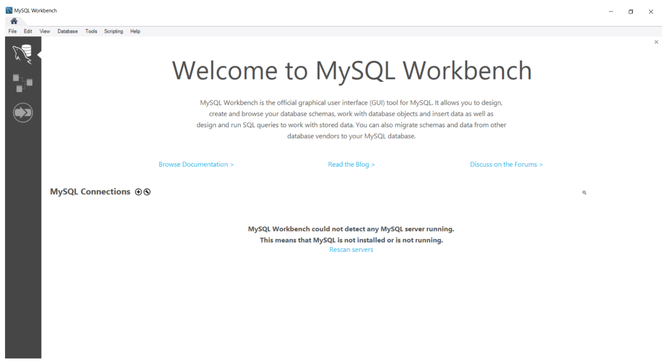
Complete

Destination Folder:

C:\Program Files\MySQL\MySQL Workbench 8.0 CE\

< Back | Install | Cancel

3b)



MySQL Workbench

File Edit View Database Tools Scripting Help

Welcome to MySQL Workbench

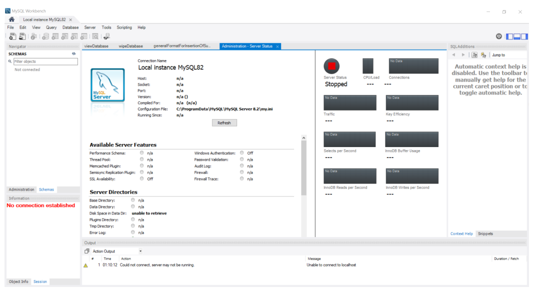
MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

Browse Documentation > Read the Blog > Discuss on the Forums >

MySQL Connections ⊕⊗

MySQL Workbench could not detect any MySQL server running.
This means that MySQL is not installed or is not running.
Rescan servers

3c)



MySQL Workbench — Local instance MySQL82

File Edit View Query Database Server Tools Scripting Help

viewDatabase | wipeDatabase | generalFormatForInsertionOfSu... | Administration - Server Status

Navigator — SCHEMAS — Filter objects — Not connected

Connection Name: Local instance MySQL82

Host:	n/a
Socket:	n/a
Port:	n/a
Version:	n/a ()
Compiled For:	n/a (n/a)
Configuration File:	C:\ProgramData\MySQL\MySQL Server 8.2\my.ini
Running Since:	n/a

Refresh

Server Status: Stopped — CPU/Load: --- — Connections: ---

Traffic --- | Key Efficiency --- | Selects per Second --- | InnoDB Buffer Usage --- | InnoDB Reads per Second --- | InnoDB Writes per Second ---

Available Server Features

Performance Schema:	n/a	Windows Authentication:	Off
Thread Pool:	n/a	Password Validation:	n/a
Memcached Plugin:	n/a	Audit Log:	n/a
Semisync Replication Plugin:	n/a	Firewall:	n/a
SSL Availability:	Off	Firewall Trace:	n/a

Server Directories

Base Directory:	n/a
Data Directory:	n/a
Disk Space in Data Dir:	unable to retrieve
Plugins Directory:	n/a
Tmp Directory:	n/a
Error Log:	n/a

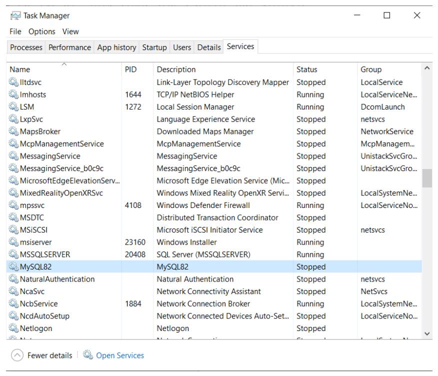
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Information: No connection established

Output — Action Output

```
#  Time      Action                                      Message                        Duration / Fetch
1  01:10:12  Could not connect, server may not be running.  Unable to connect to localhost
```

3d)



Task Manager

File Options View

Processes | Performance | App history | Startup | Users | Details | Services

Name	PID	Description	Status	Group
lltdsvc		Link-Layer Topology Discovery Mapper	Stopped	LocalService
lmhosts	1644	TCP/IP NetBIOS Helper	Running	LocalServiceNe...
LSM	1272	Local Session Manager	Running	DcomLaunch
LxpSvc		Language Experience Service	Stopped	netsvcs
MapsBroker		Downloaded Maps Manager	Stopped	NetworkService
McpManagementService		McpManagementService	Stopped	McpManagem...
MessagingService		MessagingService	Stopped	UnistackSvcGro...
MessagingService_b0c9c		MessagingService_b0c9c	Stopped	UnistackSvcGro...
MicrosoftEdgeElevationServ...		Microsoft Edge Elevation Service (Mic...	Stopped	
MixedRealityOpenXRSvc		Windows Mixed Reality OpenXR Servi...	Stopped	LocalSystemNe...
mpssvc	4108	Windows Defender Firewall	Running	LocalServiceNo...
MSDTC		Distributed Transaction Coordinator	Stopped	
MSiSCSI		Microsoft iSCSI Initiator Service	Stopped	netsvcs
msiserver	23160	Windows Installer	Running	
MSSQLSERVER	20408	SQL Server (MSSQLSERVER)	Running	
MySQL82		MySQL82	Stopped	
NaturalAuthentication		Natural Authentication	Stopped	netsvcs
NcaSvc		Network Connectivity Assistant	Stopped	NetSvcs
NcbService	1884	Network Connection Broker	Running	LocalSystemNe...
NcdAutoSetup		Network Connected Devices Auto-Set...	Stopped	LocalServiceNo...
Netlogon		Netlogon	Stopped	

Fewer details | Open Services

3di)

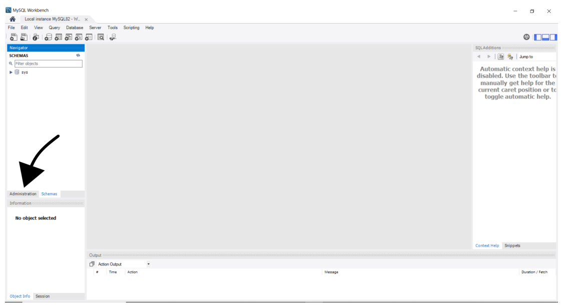
4. **Loading the premade tables and entries**

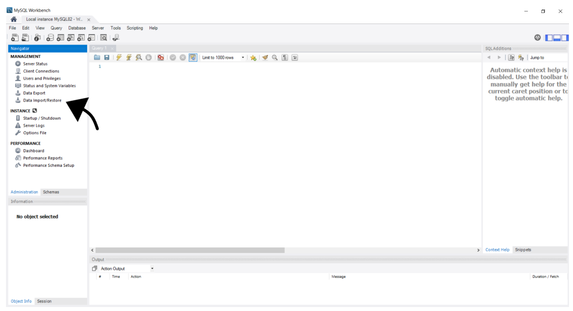
    a. Now that you have MySQL Workbench open and connected to your local database, it might seem a bit empty, and that's because it is. In order to populate this database, we need to import the premade schema. To do this, first go to the Administration tab located around the middle left of the screen.

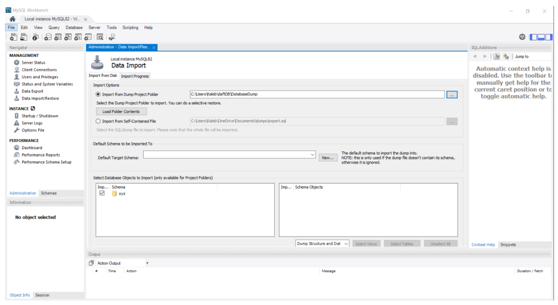
    b. Once here, select the Data Import/Restore option from the Management section.

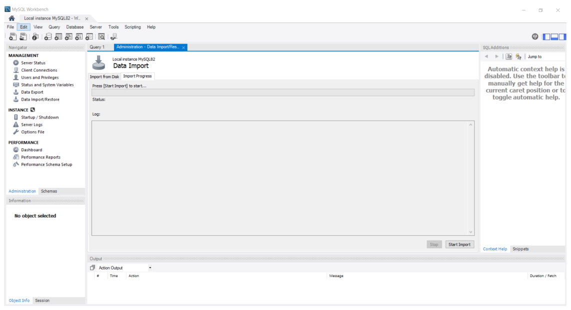
    c. This screen may seem to be complicated, but we don't need to change much. The "Import from Dump Project Folder" option should already be selected, but we need to point it towards the right directory. Click the button labeled "…" at the end of that row, and browse for the folder labeled DatabaseDump that was downloaded at the beginning in the ZIP file.

    d. Go to the Import Progress tab, and select Start Import from the bottom right corner. The tables and entries have been loaded!


4a)


4b)


4c)

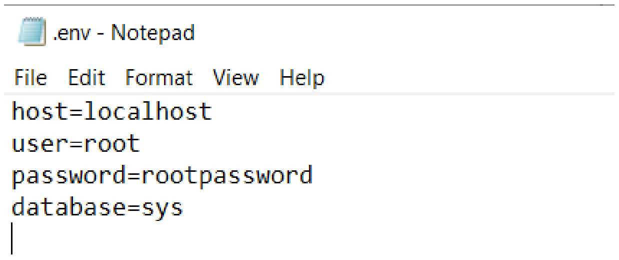

4d)

5. Python Script Setup

a. Alright, homestretch, this is the last step of installation. First, navigate to the ZIP file you downloaded and open ".env". Once here, type in the password you created back in Step 2c where it says "password=...". Then, click File, and Save.

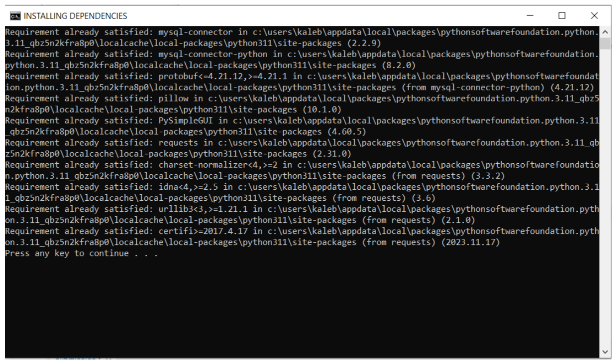
b. Once that's done, go back to the daftDB ZIP file and run "dependencyInstallation.bat". This script installs all the necessary dependencies that the DBMS relies on.

c. You're ready to go!



```
host=localhost
user=root
password=rootpassword
database=sys
```

5a)



```
Requirement already satisfied: mysql-connector in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.python.
3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (2.2.9)
Requirement already satisfied: mysql-connector-python in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.
python.3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (8.2.0)
Requirement already satisfied: protobuf<=4.21.12,>=4.21.1 in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundat
ion.python.3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (from mysql-connector-python) (4.21.12)
Requirement already satisfied: pillow in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.python.3.11_qbz5
n2kfra8p0\localcache\local-packages\python311\site-packages (10.1.0)
Requirement already satisfied: PySimpleGUI in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.python.3.11
_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (4.60.5)
Requirement already satisfied: requests in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.python.3.11_qb
z5n2kfra8p0\localcache\local-packages\python311\site-packages (2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundatio
n.python.3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (from requests) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.python.3.1
1_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (from requests) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.pyth
on.3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (from requests) (2.1.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\kaleb\appdata\local\packages\pythonsoftwarefoundation.pyth
on.3.11_qbz5n2kfra8p0\localcache\local-packages\python311\site-packages (from requests) (2023.11.17)
Press any key to continue . . .
```

5b)

User Manual

Thank you for downloading DAFT! This will be a user guide on how to manipulate your database of MP3s with the software.

Guide

Introduction to DAFT

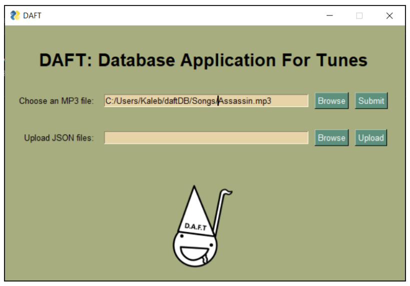
So, just what the heck does this software do anyways? DAFT stands for Database Application For Tunes, and it is a Database Management System that keeps track of all the tags on various songs so that if one were submitted to the software, it could have those tags appended to it. But what do I mean when I say tags? Tags, or more accurately, metadata, are pieces of information stored with an .mp3 file that provide information for it such as artist, album, title, and more. The de facto standard format for these tags among MP3s is called ID3, which stores the information about an mp3 as (usually) just a few bytes either at the beginning or the end of the file. This does not affect the audio content of an .mp3 file. DAFT supports the following ID3 tags: Title, Release Year, Genre, Artist, Album Track Number, and Album Art. So, if you’ve downloaded a song as an .mp3 file and aren’t sure of the release year, genre, title or really any of those main tags for it, you can submit it to DAFT. If that mp3 is in our system, you can quickly and easily add those tags on your .mp3 file to match.

How to submit an MP3 to the database manually

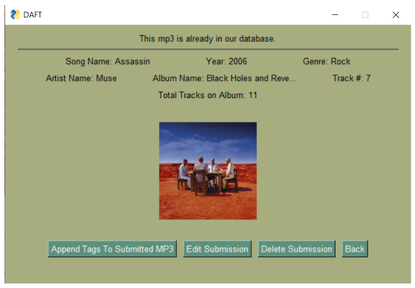
In order to find the tags for an MP3, we need to submit it first. First, open the DAFT GUI (Graphical User Interface, the version that opens a window that you can interact with) version by running “startingDAFT.bat”, unless it is already open. From here, to submit a file, click the browse button in the first row, the one designated for “Choose an MP3 file” . Once you’ve located your .mp3 file, select Submit. From here, there are two possibilities:

- **The MP3 is already in our database**
    - Great! The information has been displayed for you.

- **The MP3 is not yet in our database**
    - Unfortunately, we do not have this mp3 stored within the database yet. To help grow DAFT, please take the time to submit the information for the song to be stored if you would like to.

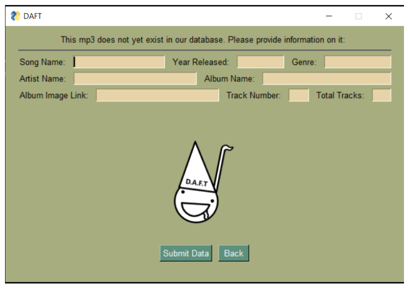


DAFT
DAFT: Database Application For Tunes
Choose an MP3 file:
C:/Users/Kaleb/daftDB/Songs/Assassin.mp3
Browse
Submit
Upload JSON files:
Browse
Upload
D.A.F.T



This mp3 is already in our database.

Song Name: Assassin Year: 2006 Genre: Rock
Artist Name: Muse Album Name: Black Holes and Reve... Track #: 7
Total Tracks on Album: 11

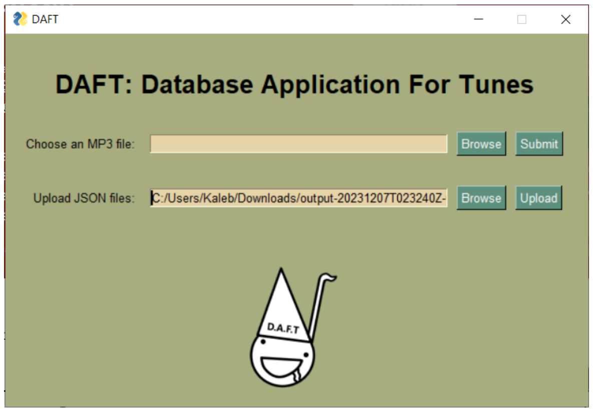


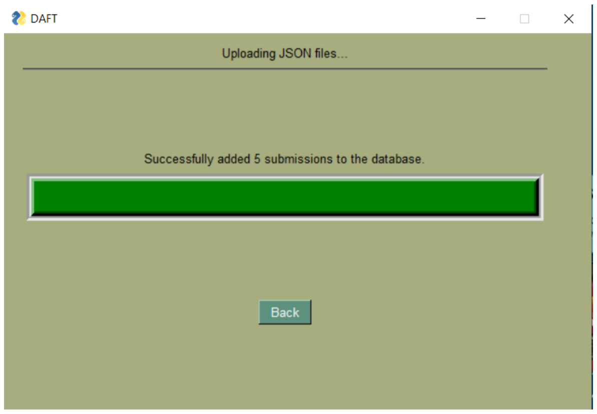
This mp3 does not yet exist in our database. Please provide information on it:

Song Name: Year Released: Genre:
Artist Name: Album Name:
Album Image Link: Track Number: Total Tracks:

How to submit JSON files into the database

If the idea of manually submitting hundreds or thousands of files to the database seems tedious to you, we had the same thought. So, to solve this, we've implemented a method that allows for a submission of multiple files to be added to the database. In order to do this, visit [github link] and follow instructions there. Once you have a folder with properly formatted JSON files, you can click the browse button in the second row, designated for uploading JSON files, and select all the files you'd like to upload. Once you have those, click Upload. The files that register as valid will then be automatically inserted into the database!

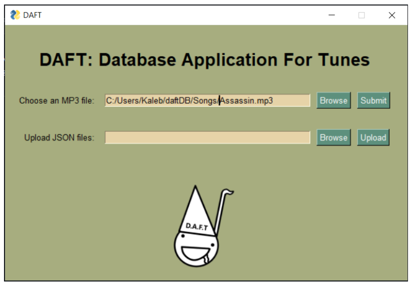

DAFT
DAFT: Database Application For Tunes
Choose an MP3 file:
Browse
Submit
Upload JSON files:
C:/Users/Kaleb/Downloads/output-20231207T023240Z-
Browse
Upload
D.A.F.T



Successfully added 5 submissions to the database.

How to edit a submission

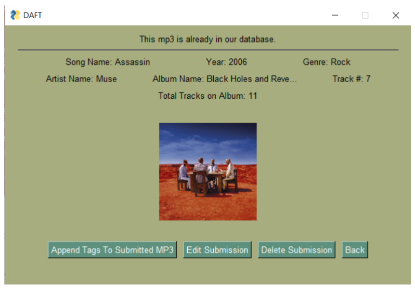
First, submit your mp3 by following the steps in the **How to submit an MP3 to the database manually** section. If the tags for your mp3 are not in the database, then there is no submission to edit. However, if your mp3 is already in the database, then click the "Edit Submission" button. The information that is currently attributed to that MP3 will be auto filled so as to make small changes to prior entries easier. Once you are satisfied with your changes, you can select "Submit Data".



DAFT: Database Application For Tunes

Choose an MP3 file: C:/Users/Kaleb/daftDB/Songs/Assassin.mp3

Upload JSON files:

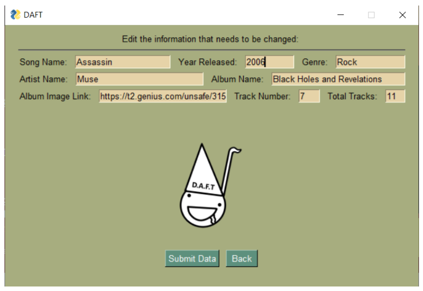


This mp3 is already in our database.

Song Name: Assassin Year: 2006 Genre: Rock

Artist Name: Muse Album Name: Black Holes and Reve... Track #: 7

Total Tracks on Album: 11



Edit the information that needs to be changed:

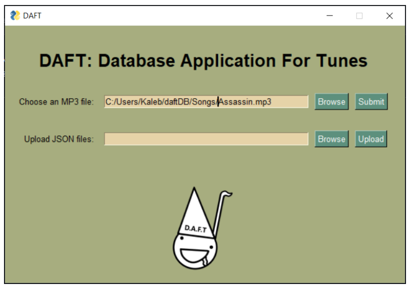
Song Name: Assassin Year Released: 2006 Genre: Rock

Artist Name: Muse Album Name: Black Holes and Revelations

Album Image Link: https://t2.genius.com/unsafe/315 Track Number: 7 Total Tracks: 11

How to delete a submission

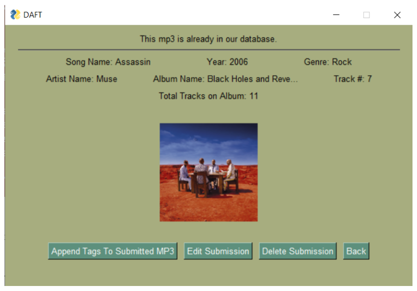
First, submit your mp3 by following the steps in the **How to submit an MP3 to the database manually** section. If the tags for your mp3 are not in the database, then there is no submission to delete. However, if your mp3 is already in the database, then all you need to do is click the "Delete Submission" button, and that submission will be deleted.


DAFT

DAFT: Database Application For Tunes

Choose an MP3 file: C:/Users/Kaleb/daftDB/Songs/Assassin.mp3

Upload JSON files:

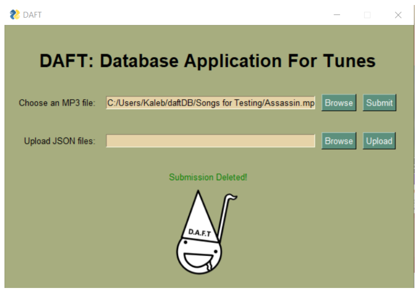

DAFT

This mp3 is already in our database.

Song Name: Assassin Year: 2006 Genre: Rock

Artist Name: Muse Album Name: Black Holes and Reve... Track #: 7

Total Tracks on Album: 11


DAFT

DAFT: Database Application For Tunes

Choose an MP3 file: C:/Users/Kaleb/daftDB/Songs for Testing/Assassin.mp

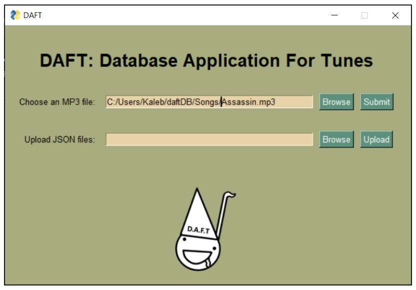
Upload JSON files:

Submission Deleted!

How to append the tags of an entry to your MP3

Appending tags to your submitted MP3 can be done through the GUI (Graphical User Interface) version of DAFT, but it can also be done with the CLI (Command Line Interface) version. Let's start with the GUI version. First, submit your mp3 by following the steps in the **How to submit an MP3 to the database manually** section. If the tags for your mp3 are not in the database, then we have no information for you to use. However, if your mp3 is already in the database, then all you need to do is click the “Append Tags To Submitted MP3” button, and your MP3 will have those tags appended to it. For the CLI version, this is a bit more complex, and we recommend the GUI version for those who don’t know their way around a terminal. If you do however, first navigate to the directory that the DAFT_CLI.py file is in, and type the command: “python daft_cli.py [INSERT MP3 FILEPATH HERE], replace the text and brackets with the filepath to the mp3 of your choice. Hitting enter will automatically append the tags to your mp3!

GUI Version

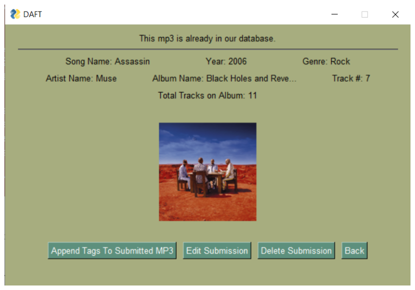


DAFT

DAFT: Database Application For Tunes

Choose an MP3 file: C:/Users/Kaleb/daftDB/Songs/Assassin.mp3

Upload JSON files:



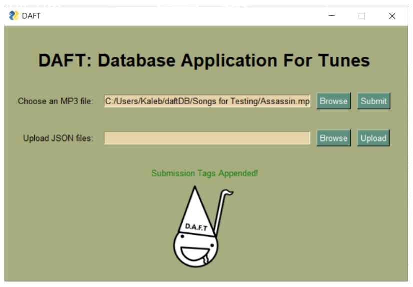
DAFT

This mp3 is already in our database.

Song Name: Assassin   Year: 2006   Genre: Rock

Artist Name: Muse   Album Name: Black Holes and Reve...   Track #: 7

Total Tracks on Album: 11



DAFT

DAFT: Database Application For Tunes

Choose an MP3 file: C:/Users/Kaleb/daftDB/Songs for Testing/Assassin.mp

Upload JSON files:

Submission Tags Appended!

CLI Version