User Manual

MusicTrends is all about pointing out the trends in the music industry all around the internet. Using sophisticated algorithms, and loads of data, our users can explore some fun and insightful facts about their favorite music category (genre).

Trends Page:

When starting fresh and opening our main page, the user can view all the analytics we provide when we apply our logic on all the songs from our database. He can then pick a song category and see those same analytics applied on a category of his choice in a matter of seconds.

The analytics we provide can be divided into three different types:
- Language data based on songs lyrics.
- Videos popularity info based on Youtube's data.
- Fans data based on comments provided for songs' Youtube videos.
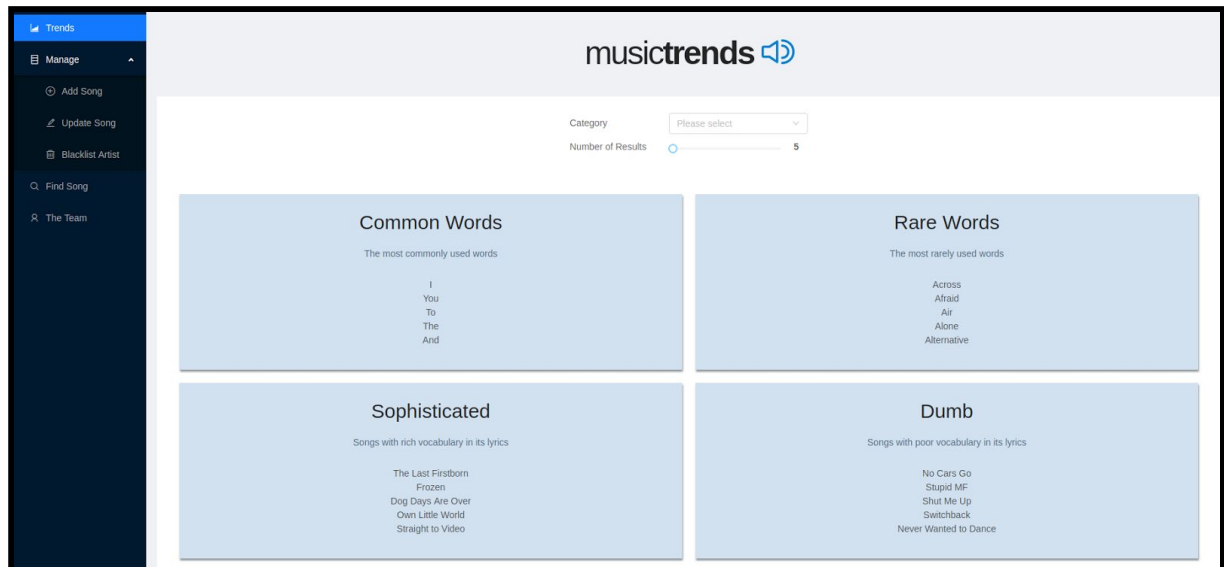
Language Data:
- **Common words** - top words that appeared most in songs' lyrics.
- **Rare words** - top words that appeared least in songs' lyrics.
- **Sophisticated** - songs with rich vocabulary in their lyrics.
- **Dumb** - songs with poor vocabulary in their lyrics.
- **Head Eaters** - artists who write the longest songs.

Videos Popularity:
- **Most Viewed** - Songs with the highest amount of views.
- **Least Viewed** - Songs with the least amount of views.
- **Most Liked** - Songs with the highest amount of likes.
- **Least Liked** - Songs with the least amount of likes.
- **Controversial Artists** - Popular artists which their videos liked by many and also disliked by many.
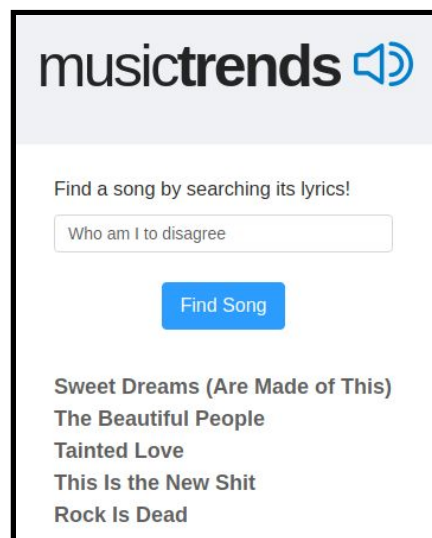
Fans Data:
- **Groupies** - The users (Youtube's username) which comments most on an artist videos.
- **Viral Songs** - Songs which their comment are most liked.
- **Smart Fans** - Songs with rich vocabulary in their Youtube's video comments.
- **Comment Timing** - Day of week with the most Youtube comments.

Find Song Page:

Isn't it annoying when you remember part of a song's lyrics but can't remember its name? *MusicTrends* is here to help! Just type those words you remember and we will look them up in our enormous database. We will list you the five songs that are most matching to the words you typed in.

Admin Manual

This manual is designed for admins, operation the system. To enable the 'Manage' menu, type in the url address like that: <url>?key=<SECRET-KEY>
Notice that the manage pages will be visible on entering even a wrong key, but you won't be able to do any operation on the database without the secret key provided to you by **MusicTrends**.
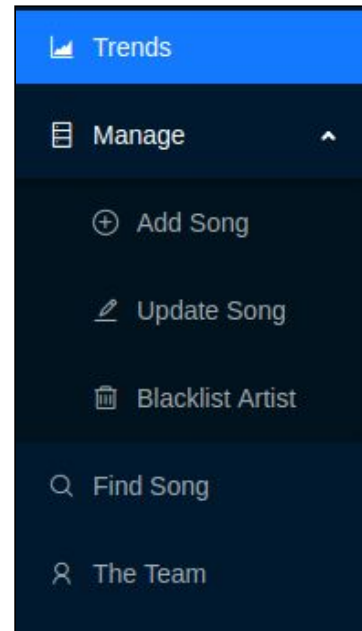
Note to the checker: _The current secret key_ _is_ **Wubalubadubdub!**

Once the menu is visible, you can update a song data, 'blacklist' an artist or add a new song.

Add Song Page:
As a manager you might want to add some new song into our **MusicTrends'** database.
In this page you will choose the category and artist performing the song, and enter the song name. Once submitted, we will turn to our partners at MusixMatch and Youtube and will try and fetch the song lyrics and it's youtube video id and all the data that comes with it.
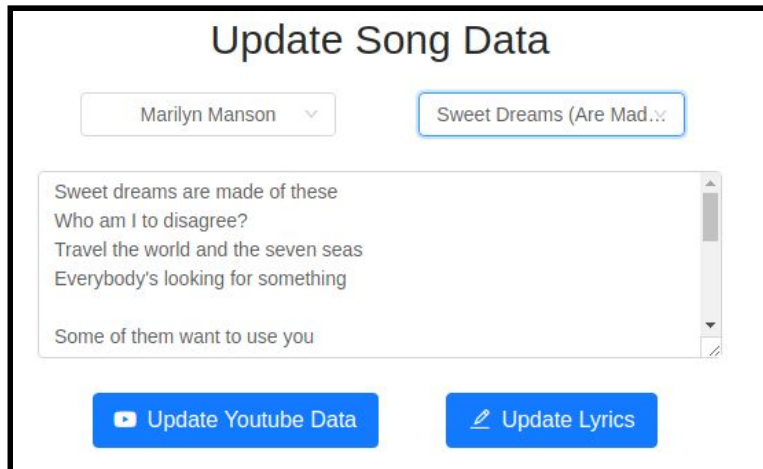
Update Song Data Page:

After choosing a song you can perform two actions:
- Updating the song's lyrics or adding some if its missing.
- Updating Youtube data for that song (This action will turn to Youtube and will fetch the updated data).

Blacklist Artist Page:

Every now and then some new scandal gets into light regarding some superstars and some are to much to ignore. In this page you can blacklist an artist from our system, resulting in total removal of the data related to that artist.

This is an irreversible action, handle with care!