lastfm

HP

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This tools is a simple wrapper around Last.FM API that allows you to export user's listening history to a SQLite database.

CHAPTER

ONE

INSTALLATION

To use this library:

```
pip install lastfm-to-sqlite
```

To contribute to this library, first checkout the code. Then create a new virtual environment:

```
git https://github.com/hp0404/lastfm-to-sqlite.git
cd lastfm-to-sqlite
python -m venv venv
source venv/bin/activate
```

Or if you are using *pipenv*:

```
pipenv shell
```

Now install the dependencies and tests:

```
pip install -r requirements.txt
```

To run the tests:

```
pytest
```

CHAPTER

TWO

USAGE

Before using `lastfm` you'll need to get an access token from *last.fm*. See https://www.last.fm/api

Both `Python` and `CLI` API have the same functionality: they allow you to export user's playlist history to a SQLite database.

The arguments you should familiarize yourself with are `--user`, `--start_date` and `--end_date`.

2.1 Python API

To use Python API

```
from lastfm.export import get_users_recent_tracks

# playlist is a generator containing all tracks for a given date
playlist = get_users_recent_tracks(
    api="244ec3b62b2501514191234eed07c75d"
    user="way4music",
    start_date="2021-08-15",
    end_date="2021-09-01"
)
```

This allows you to work with a trimmed JSON directly.

2.2 Click API

To run script as a command-line tool, use CLI functionality that explicitly uses database to store data

```
lastfm export 244ec3b62b2501514191234eed07c75d lastfm_dump.db --user Way4Music
```

That will use (or create) a SQLite database called *lastfm_dump.db* and a table called *playlist* to export user's entire playlist.

To scrape specific dates, use `--start_date` and `--end_date`:

```
lastfm export 244ec3b62b2501514191234eed07c75d lastfm_dump.db --user way4music --start_
↪date 2020-10-01 --end_date 2020-10-29
```

CHAPTER

THREE

LASTFM

3.1 lastfm package

3.1.1 Submodules

3.1.2 lastfm.cli module

3.1.3 lastfm.export module

`lastfm.export.`**`convert_to_timestamp`**(*date*)

Convert human-readable *date* as either *datetime.date* or *str* to Unix Timestamp.

`lastfm.export.`**`export_page`**(*page*)

Scrape specific information regarding each song in a playlist.

`lastfm.export.`**`fetch`**(*session*, *params*, *meta*)

Fetch each page and export data using *export_page*.

`lastfm.export.`**`get_metadata`**(*page*)

Access requests' metadata containing total number of pages.

`lastfm.export.`**`get_users_recent_tracks`**(*user: str*, *api: str*, *first_page: int = 1*, *limit_per_page: int = 200*, *extended: int = 0*, *start_date=None*, *end_date=None*)

Export user's track history given the parametrs.

3.1.4 Module contents

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