HW3

Software Design

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Retrieve currently playing song in lastfm, and show lyrics (original and translated in french) and artist biography
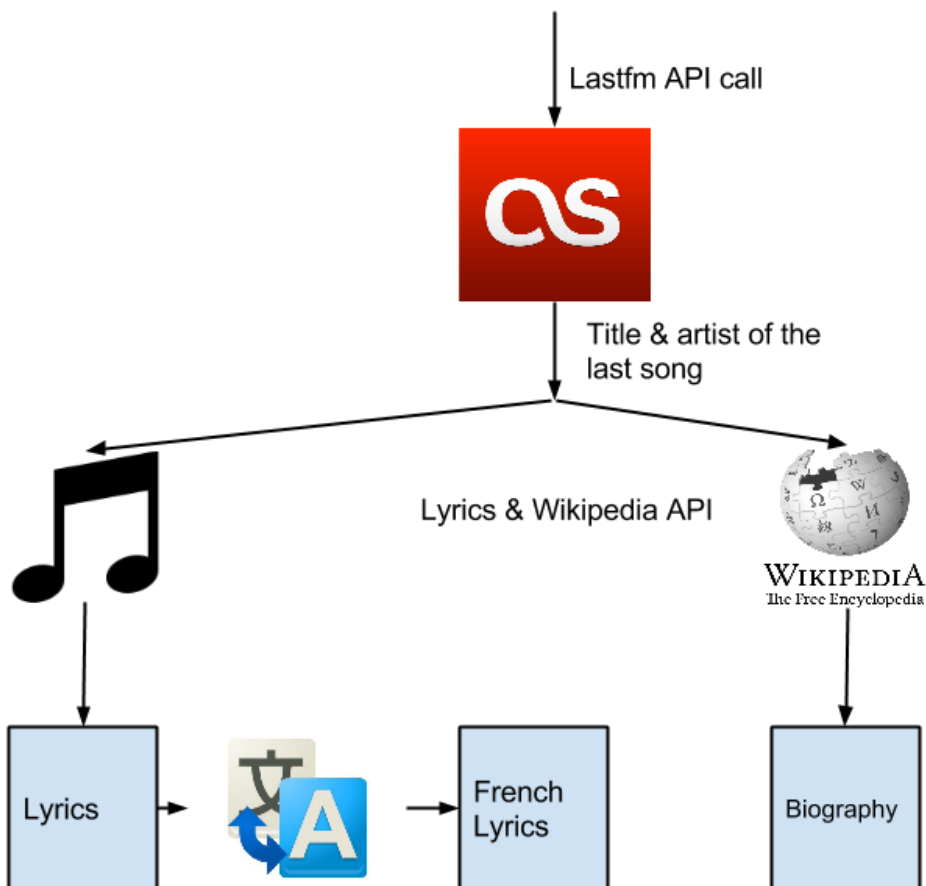
Project Overview

The aim of the project is to get the last played song (or the currently playing song) of an user in lastfm.

Then we show the original lyrics and the lyrics translated in French. Then we show the biography of the artist.

Lastfm

Last.fm is a music website, founded in the United Kingdom in 2002. Using a music recommender system called "Audioscrobbler", Last.fm builds a detailed profile of each user's musical taste by recording details of the tracks the user listens to, either from Internet radio stations, or the user's computer or many portable music devices. This information is transferred ("scrobbled") to Last.fm's database either via the music player itself (Rdio, Spotify, Clementine, Amarok, MusicBee) or via a plugin installed into the user's music player.

Wikipedia

Implementation

Libraries

This project uses the following libraries:

- pyLast: used to deal with Lastfm API
- pattern
- wikipedia: to retrieve part of an article
- goslate: free access to google translate API

How does it work?

This line ask for the Lastfm username

        username = raw_input("Lastfm username: ")

We get the user data

        network = pylast.LastFMNetwork(api_key = API_KEY, api_secret = API_SECRET, username = username)

        user = pylast.User(username,network=network)

We get the last played song

        last_scrobble = user.get_recent_tracks(limit=2)[0]

        artist = str(last_scrobble.track.artist)

        title = str(last_scrobble.track.title)

We get lyrics from a web page

        lyrics = URL('http://api.ntag.fr/lyrics/?artist='+artist+'&title='+title).download()

Tranlate in french

```
gs = goslate.Goslate()

lyricsFR = gs.translate(lyrics, 'fr')
```

We get the biography from wikipedia

```
bio = wikipedia.summary(artist, sentences=2)
```

How to run it?

Install the libraries (pip install pattern pylast Wikipedia goslate), run it, and write the Lastfm username when prompted.

Example

Bohemian Rhapsody (2011 Remaster) - Queen

Is this the real life?
Is this just fantasy?
Caught in a landslide
No escape from reality
Open your eyes
Look up to the skies and see
I'm just a poor boy, I need no sympathy
Because I'm easy come, easy go
Little high, little low
Anyway the wind blows, doesn't really matter
to me
To me

Mama, just killed a man
Put a gun against his head
Pulled my trigger, now he's dead
Mama, life had just begun
But now I've gone and thrown it all away
Mama, ooh
Didn't mean to make you cry
If I'm not back again this time tomorrow
Carry on, carry on, as if nothing really
matters

Too late, my time has come
Sends shivers down my spine
Body's aching all the time
Goodbye everybody, I've got to go
Gotta leave you all behind and face the truth
Mama, ooh (Any way the wind blows)
I don't wanna die
I sometimes wish I'd never been born at all

I see a little silhouetto of a man
Scaramouche, Scaramouche, will you do the
Fandango?
Thunderbolts and lightning, very, very

Est-ce la vraie vie?
Est-ce juste fantastique?
Pris dans un glissement de terrain
Pas de fuite de la réalité
Ouvrez vos yeux
Regardez vers le ciel et de voir
Je suis juste un pauvre garçon, je n'ai pas
besoin de sympathie
Parce que je viens facile, facile aller
Peu élevé, peu faible
Quoi qu'il en soit le vent souffle, ne pas
vraiment d'importance pour moi
pour moi

Mama, vient de tuer un homme
Mis un pistolet contre sa tête
Tiré mon déclenchement, maintenant qu'il
est mort
Maman, la vie venait de commencer
Mais maintenant, je suis parti et j'ai jeté tout
loin
Maman, ooh
Je ne voulais pas vous faire pleurer
Si je ne suis pas de retour demain à cette
heure
Continuez, continuez, comme si rien ne
compte vraiment

Trop tard, mon temps est venu
Envoie frissons dans le dos
Douleurs tout le temps de corps
Au revoir tout le monde, je dois y aller
Je dois vous laisser tous derrière et face à la
vérité
Maman, ooh (Toute la direction du vent)
Je ne veux pas mourir
Je souhaite parfois que je n'avais jamais été

frightening me
Galileo, Galileo
Galileo, Galileo
Galileo, Figaro
Magnifico (Oh, oh, oh, oh!)
I'm just a poor boy, nobody loves me
He's just a poor boy from a poor family
Spare him his life from this monstrosity
Easy come, easy go, will you let me go?
Bismillah! No!
We will not let you go (Let him go!)
Bismillah! We will not let you go (Let him go!)
Bismillah! We will not let you go (Let me go!)
Will not let you go (Let me go!) (Never, never, never, never, never let me go!)
Will not let you go (Let me go!)
Oh, oh, oh, oh
No, no, no, no, no, no, no!
Oh, mamma mia, mamma mia
Mamma mia, let me go
Beelzebub has a devil put aside for me
For me
For me!

So you think you can stone me and spit in my eye?
So you think you can love me and leave me to die?
Oh baby, can't do this to me baby
Just gotta get out, just gotta get right out of here

Ooh
Ooh yeah, ooh yeah

Nothing really matters,
Anyone can see
Nothing really matters, nothing really matters to me

Any way the wind blows

Written by:

Freddie Mercury

né du tout

Je vois un petit silhouetto d'un homme
Scaramouche, Scaramouche, ferez-vous le Fandango?
Thunderbolts et la foudre, très, très effrayant moi
Galileo, Galileo
Galileo, Galileo
Galileo, Figaro
Magnifico (Oh, oh, oh, oh!)
Je suis juste un pauvre garçon, personne ne m'aime
Il est juste un pauvre garçon d'une famille pauvre
Lui épargner sa vie de cette monstruosité
Easy come, easy go, allez-vous me laisser partir?
Bismillah! Non!
Nous n'allons pas vous laisser aller (Laissez-le aller!)
Bismillah! Nous n'allons pas vous laisser aller (Laissez-le aller!)
Bismillah! Nous n'allons pas vous laisser aller (Laissez-moi partir!)
Ne vous laisser aller (Laisse-moi aller!)
(Jamais, jamais, jamais, jamais, jamais me laisser aller!)
Ne vous laisser aller (Laisse-moi aller!)
Oh, oh, oh, oh
Non, non, non, non, non, non, non!
Oh, mamma mia, mamma mia
Mamma mia, permettez-moi
Belzébuth a un diable mettre de côté pour moi
pour moi
Pour moi!

Donc, vous pensez que vous pouvez me lapider et cracher dans mon oeil?
Donc, vous pensez que vous pouvez m'aimer et me laisser mourir?
Oh bébé, ne peut pas me faire ça bébé
Dois juste sortir, juste obtenir dois juste sortir d'ici

Ooh
Oh yeah, oh oui

Rien ne compte vraiment,
N'importe qui peut voir
Rien ne compte vraiment, rien ne compte
vraiment pour moi

N'importe quelle manière le vent souffle

Rédigé par:

Freddie Mercury

Queen

Queen are a British rock band formed in London in 1970, originally consisting of Freddie Mercury (lead vocals, piano), Brian May (guitar, vocals), John Deacon (bass guitar), and Roger Taylor (drums, vocals). Queen's earliest works were influenced by progressive rock, hard rock and heavy metal, but the band gradually ventured into more conventional and radio-friendly works, incorporating further diverse styles into their music.

Conclusion

This project actually does basically what it needs to do. But it could be improve. For example, if an artist has the same name than another Wikipedia page, the biography will not be right. It would be good to improve the Wikipedia research to filter result linked to music.