Hợp Âm Chuẩn API

Contents

1. Definitions, Acronyms, and Abbreviations

Term	Definition
Version	An Version object indentify the current song list available on website.

2. You Will Need

1. **Public key**: to send with your POST request. This key is used to indentify who you are.
2. **Private key**: this key is used to create **Signature**
3. **Signature:** this string is created by hashing **Private Key** and **Data**

```
Example:

$data = urlencode(base64_encode(json_encode($data)));
$signature = hash_hmac('md5',$data , $privateKey);
```

4. Your URL to send request will be like this

http://hopamchuan.com/api/{function_name} + publicKey + signature + jsondata

Example:

```
http://hopamchuan.com/api/ver?publicKey=DFHRna346sDt52C&signature=dwhU
IT54nE8&jsondata=fsafadsffnuisfheiw
```

5. Response data is in json format.

3. API functions

Method	Data	Return	Description
/api/ver	*from_ver*: Integer	Version	The lasted version number
/api/song_from_to	*from_ver*: Integer *to_ver*: Integer	Song[]	List of song was added from version *from_ver* to version *to_ver*
/api/song_from	*from_ver*: Integer	Song[]	List of song was added from version *from_ver* to the lasted version
/api/playlists	*username*: String *password*: String	Playlist[]	List of all playlist of the current user
/api/put_playlists	*username*: String *password*: String *local_playlists*: Playlist[]	Playlist[]	Put all local playlist to web server and receive all playlist from server
/api/put_favorite	*username*: String *password*: String *local_favorite:* Integer[]	Integer[]	Put all local favorite song id to web server and receive all favorite song id from server
/api/get_profile	*username*: String *password*: String	-1 or Profile	Check for login and return profile if username/password is correct

Example:

URL: http://hopamchuan.com/api/song_from

```
$data =  array('from_ver'  => 2);
```

→ List of song was added from version 2 to the lasted version

```
$jsondata = urlencode(base64_encode(json_encode($data)))
```

4. Object Definition

a) Version

Property	Value type	Format	Description
no	Integer		Version number
date	String	yyyy-MM-dd hh:mm:ss	The time this version is published
song_number	Integer		Number of songs in this version

b) Song

Property	Value type	Format	Description
song_id	Integer		Unique indentity number
title	String		Song title
link	String	http://mp3.zing.vn/*	Link to mp3 song (Notice: not a direct mp3 link)
content	String		Song content
firstlyric	String		Fisrt few words of the song
date	String	yyyy-MM-dd hh:mm:ss	Created date
chords	Chord[]		Array of chord used in this song
authors	Artist[]		Array of author of this song
singers	Artist[]		Array of singer of this song

c) Chord

Property	Value type	Format	Description
chord_id	Integer		Unique indentity number
name	String		Chord name

d) Artist

Property	Value type	Format	Description
artist_id	Integer		Unique indentity number
artist_name	String		Artist name
artist_ascii	String		Artist name without accient

e) Playlist

Property	Value type	Format	Description
playlist_id	Integer		Unique indentity number
name	String		Playlist name
description	String		Playlist description
date	String	yyyy-MM-dd hh:mm:ss	Created date
public	Integer	0 or 1	1 = public; 0 = private
song_ids	Integer[]		Array of the song ID in this playlist

f) Profile

Property	Value type	Format	Description
id	Integer		User ID
username	String		Username
password	String		Password
email	String		User email
avatar_link	String	http://hopamchuan.com/*	Avatar direct link