

Hop Am Chuan API

Contents

1. Definitions, Acronyms, and Abbreviations.....	1
2. You Will Need.....	1
3. How To Use	Error! Bookmark not defined.
Step 1: prepare your api method, private key and JSON option string: Error! Bookmark not defined.	
Step 2: base64 encode the JSON string:	Error! Bookmark not defined.
Step 3: send POST request.....	Error! Bookmark not defined.
Step 4: use <code>jsonData</code> vairable for your business	Error! Bookmark not defined.
4. API	2
5. Object Definition.....	3
a) Version	3
b) Song.....	3
c) Chord.....	3
d) Artist.....	3
e) Playlist	3

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

Example:

```
http://hopamchuan.com/api/ver?publicKey=DFHRna346sDt52C&signature=dwhUIT54nE8&jsondata=fsafadsffnuisfheiw
```

5. Response data is in json format.

3. API functions

Method	Data	Return	Description
/api/ver	<i>from_ver</i> : Integer	Version	The lasted version number
/api/song_from_to	<i>from_ver</i> : Integer <i>to_ver</i> : Integer	Song []	List of song was added from version <i>from_ver</i> to version <i>to_ver</i>
/api/song_from	<i>from_ver</i> : Integer	Song []	List of song was added from version <i>from_ver</i> to the lasted version
/api/playlists	<i>username</i> : String <i>password</i> : String	Playlist []	List of all playlist of the current user
/api/put_playlists	<i>username</i> : String <i>password</i> : String <i>local_playlists</i> : Playlist []	Playlist []	Put all local playlist to web server and receive all playlist from server
/api/put_favorite	<i>username</i> : String <i>password</i> : String <i>local_favorite</i> : Integer[]	Integer[]	Put all local favorite song id to web server and receive all favorite song id from server

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 identity 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		First 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 identity number
name	String		Chord name

d) Artist

Property	Value type	Format	Description
artist_id	Integer		Unique identity number
artist_name	String		Artist name
artist_ascii	String		Artist name without accent

e) Playlist

Property	Value type	Format	Description
playlist_id	Integer		Unique identity 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
-----------------	-----------	--	---------------------------------------