Hợp Âm Chuẩn API

Contents

[1. Definitions, Acronyms, and Abbreviations 2](#_Toc375129488)

[2. You Will Need 2](#_Toc375129489)

[3. API functions 2](#_Toc375129490)

[4. Object Definition 3](#_Toc375129491)

[a) Version 3](#_Toc375129492)

[b) Song 3](#_Toc375129493)

[c) Chord 3](#_Toc375129494)

[d) Artist 3](#_Toc375129495)

[e) Playlist 4](#_Toc375129496)

[f) Profile 4](#_Toc375129497)

# Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Term | Definition |
| Version | An [Version](#_Song) object indentify the current song list available on website. |

# 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);

1. 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=dwhUIT54nE8&jsondata=fsafadsffnuisfheiw

1. Response data is in json format.

# API functions

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Data | Return | Description |
| /api/ver | from\_ver: Integer | [Version](#_Version) | The lasted version number |
| /api/song\_from\_to | from\_ver: Integer  to\_ver: Integer | [Song](#_Song_1)[] | List of song was added from version from\_ver to version to\_ver |
| /api/song\_from | from\_ver: Integer | [Song](#_Song_1)[] | List of song was added from version from\_ver to the lasted version |
| /api/playlists | username: String  password: String | [Playlist](#_Playlist)[] | List of all playlist of the current user |
| /api/put\_playlists | username: String  password: String  local\_playlists: [Playlist](#_Playlist)[] | [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](#_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)))

# Object Definition

## 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 |

## Song

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Value type | Format | Description |
| song\_id | Integer |  | Unique indentity number |
| title | String |  | Song title |
| link | String | [http://mp3.zing.vn/\*](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](#_Chord)[] |  | Array of chord used in this song |
| authors | [Artist](#_Artist)[] |  | Array of author of this song |
| singers | [Artist](#_Artist)[] |  | Array of singer of this song |

## Chord

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Value type | Format | Description |
| chord\_id | Integer |  | Unique indentity number |
| name | String |  | Chord name |

## Artist

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Value type | Format | Description |
| artist\_id | Integer |  | Unique indentity number |
| artist\_name | String |  | Artist name |
| artist\_ascii | String |  | Artist name without accient |

## 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 |

## 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 |