dKomp

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Service Endpoints

HTTP Verb	Endpoint	Description	Query Parameter
GET	/authorize	Authorize Access	client_id, response_type, redirect_uri, state, scope, show_dialog
GET	/v1/me/following?type=artist	Get User's Followed Artists	type *, time_range, limit, offset, OAuth Token
GET	/v1/me/top/{type}	Get a User's Top Artists and Tracks	

According to the Spotify API:

On success, the HTTP status code in the response header is 200 OK and the response body contains an object with a categories field, with an array of category objects(wrapped in a paging object) in JSON format. On error, the header status code is an error code and the response body contains an error object.

Example Request

Spotify Authorization Endpoints

You redirect the user:

https://accounts.spotify.com/authorize?client_id=5fe01282e94241328a84e7c5cc169164&r edirect_uri=http:%2F%2Fexample.com%2Fcallback&scope=user-read-private%20user-re ad-email&response_type=token&state=123

If the user accepts your request, the response query string, for example https://example.com/callback?code=NApCCg..BkWtQ&state=profile%2Factivity, contains the following parameters:

QUERY PARAMETER	VALUE
code	An authorization code that can be exchanged for an access token.
state	The value of the state parameter supplied in the request.

If the user does not accepted your request or an error has occurred, the response query string, for example

https://example.com/callback?error=access_denied&state=STATE, contains the following parameters:

QUERY PARAMETER	VALUE
error	The reason authorization failed, for example: "access_denied"

| state | The value of the state parameter supplied in the request. |

Spotify Token Endpoint

You use the access token to access the Spotify API. Example:

```
$.ajax({
  url: 'https://api.spotify.com/v1/me',
  headers: {
      'Authorization': 'Bearer ' + accessToken
  },
  success: function(response) {
      ...
  }
}
```

Spotify Top Artists/Followers Endpoint

GET https://api.spotify.com/v1/me/top/{type}

```
curl -X "GET"
"https://api.spotify.com/v1/me/top/artists?time_range=medium_term&limit=10&offset=5" -H "Accept:
application/json" -H "Content-Type: application/json" -H "Authorization: Bearer
BQB967SIq1dETJELaoRLUQKTHp9uAlpK_l_SrKGasaJVcap7SlzUDKLNsECbwDpHLo6KQYMkMZ
KRWZZww59SfSVIhiRRQ3jbFjSqHsD-ZwwJRcsMkpmR91CLqBA02UwfVldAbKkO9dLQP31XfZcW
Nwlfd6WHy7JmaBtg28SHW_Y"
```

```
  "items": [
   {
     "external_urls": {
```

      "spotify": "https://open.spotify.com/artist/4AK6F7OLvEQ5QYCBNiQWHq"
    },
    "followers": {
      "href": null,
      "total": 11255465
    },
    "genres": [
      "boy band",
      "dance pop",
      "pop",
      "post-teen pop",
      "talent show"
    ],

        "name": "One Direction",
    "popularity": 83,
    "type": "artist",
    "uri": "spotify:artist:4AK6F7OLvEQ5QYCBNiQWHq"
  },
  {
    "external_urls": {
      "spotify": "https://open.spotify.com/artist/7n2wHs1TKAczGzO7Dd2rGr"
    },
    "followers": {
      "href": null,
      "total": 12574727
    },
    "genres": [
      "canadian pop",
      "dance pop",
      "pop",
      "post-teen pop",
      "viral pop"
    ],
    "name": "Shawn Mendes",

```
      "popularity": 89,
      "type": "artist",
      "uri": "spotify:artist:7n2wHs1TKAczGzO7Dd2rGr"
    },
```

Bad Error Response

```
{
  "error": {
    "status": 400,
    "message": "Only valid bearer authentication supported"
  }
}
```

Purpose

For the authorization endpoint, the purpose is for the application to verify Spotify credentials and grant the application access. This endpoint should redirect and return an access token that can be used to retrieve data for the following endpoints:
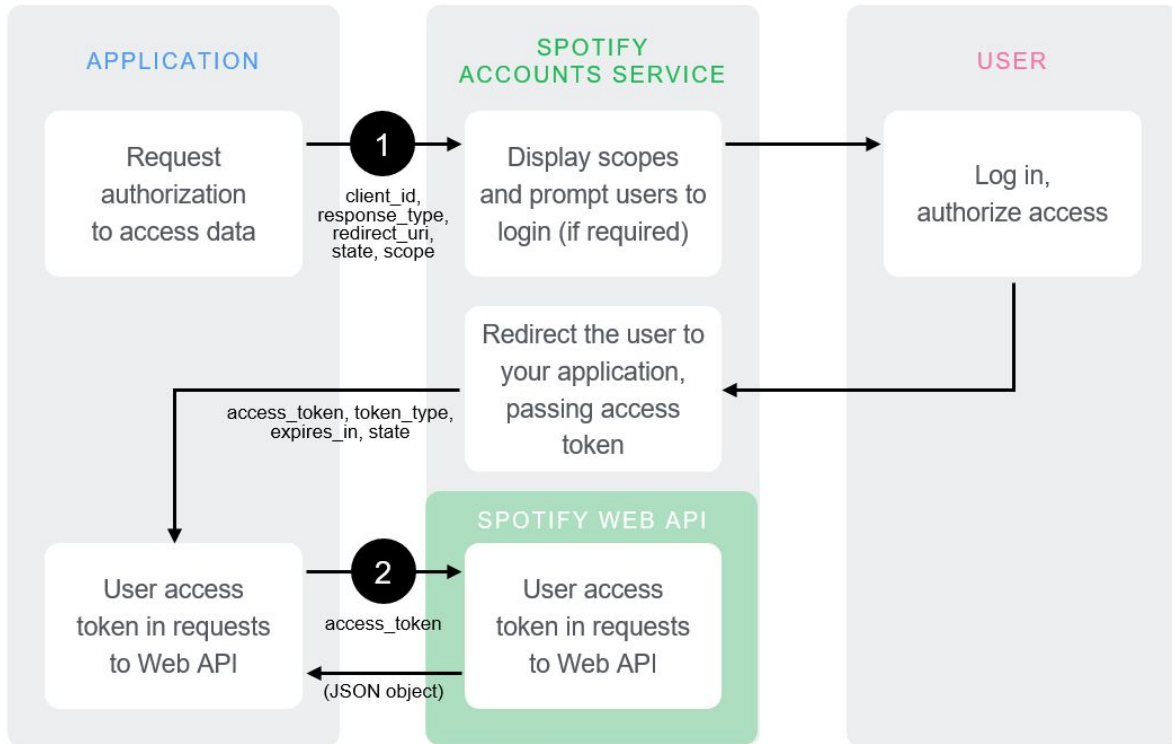
/v1/me/following?type=artist

This will retrieve a list of artists that the user is following. This is to collect favorite artists data to include in the word cloud.

/v1/me/top/{type}

This will retrieve a JSON response of both top songs and artists that the current is listening to. All of these keyboards will be added to an array with the key being the Spotify username.

Diagrams

Retrieved from the Spotify API