## Base URL :

* <https://localhost:3000>

## 1. Authorization Token Endpoint :

### Route:

POST /auth/token

### Description:

Exchanges an authorization code and code verifier for an access token.

### Required Inputs (Request Body):

* code (string): The authorization code received from Spotify.
* code\_verifier (string): The code verifier used during the PKCE flow.

### Response:

* Success: Returns a JSON object containing the access token and related information:

{

"access\_token": "BQD...",

"token\_type": "Bearer",

"expires\_in": 3600,

"refresh\_token": "AQD...",

"scope": "playlist-modify-private"

}

* Error: Returns a 500 status with the message: "Failed to fetch token" or details of the error.

## 2. Create Playlist Endpoint:

### Route:

POST /api/create-playlist

### Description:

Creates a new playlist for the authenticated user.

### Required Inputs (Request Body):

* playlist\_name (string): The name of the new playlist.
* access\_token (string): The Spotify API access token.

### Process:

1. Retrieves the user’s Spotify profile to get their user\_id.

2. Creates a new private playlist for the user.

### Response:

* Success: Returns the details of the created playlist:

{

"id": "3cEYpjA9oz9GiPac4AsH4n",

"name": "My Playlist",

"description": "Playlist generated by KeywordAI",

"public": false

}

* Error: Returns a 400 status if playlist\_name or access\_token is missing or a 500 status if the playlist creation fails.

## 3. Add Songs to Playlist Endpoint:

### Route:

POST /api/add-song

### Description:

Searches for songs matching a keyword and genre, then adds them to a specified playlist.

### Required Inputs (Request Body):

* playlist\_id (string): The ID of the playlist where songs will be added.
* keywordTitle (string): The keyword to search for in the song titles.
* genre (string): The genre filter for the search.
* access\_token (string): The Spotify API access token.

### Process:

1. Searches for songs using the Spotify Search API, filtered by keywordTitle and genre.

2. Collects the URIs of the matching tracks.

3. Adds the tracks to the specified playlist at position 0.

### Response:

* Success: Returns a confirmation of the added tracks:

{

"snapshot\_id": "MTQsZWFkMz...",

}

* Error:
  + Returns a 400 status if playlist\_id or access\_token is missing.
  + Returns a 400 status with an error message if no songs are found for the given keyword and genre.
  + Returns a 500 status if adding songs to the playlist fails.

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| --- | --- | --- |
| Variable | Type | Description |
| code | string | Authorization code received from Spotify during OAuth flow. |
| code\_verifier | string | Code verifier for PKCE flow. |
| access\_token | string | Token used to authenticate Spotify API requests. |
| playlist\_name | string | Desired name for the new playlist. |
| playlist\_id | string | ID of the playlist where songs will be added. |
| keywordtitle | string | Search keyword for song titles. |
| genre | string | Optional genre filter for song search. |

Use npm install then npm start to launch.