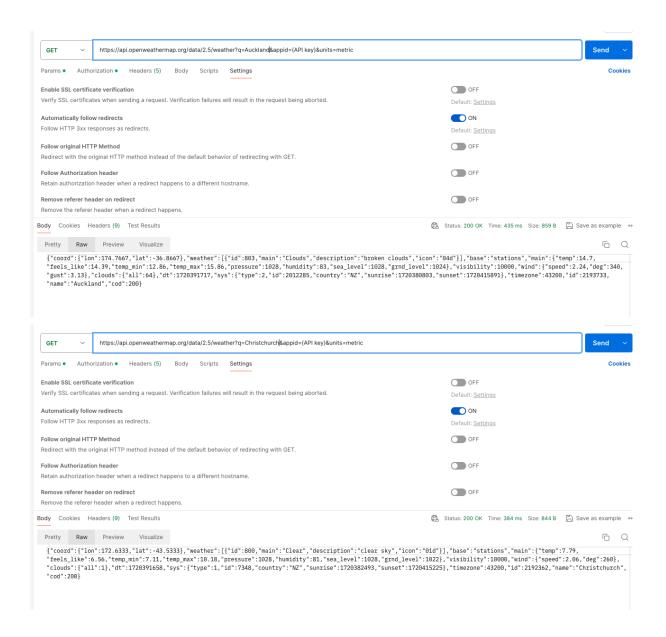
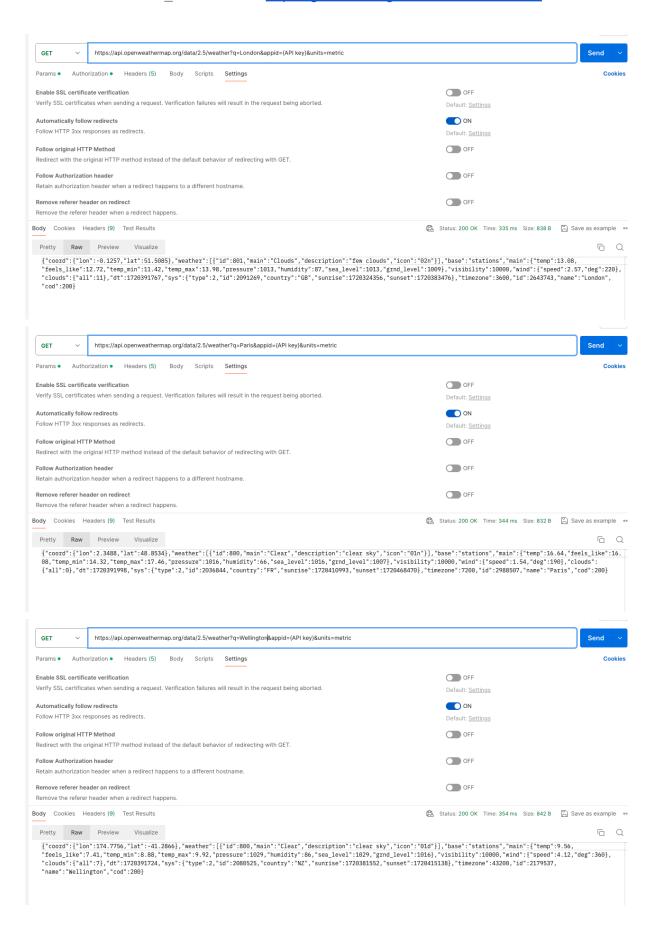
PART A

Task 1: Using Postman tool to connect to a Weather API

- 1. Get weather description and minimum and maximum temperature in Celsius for the following cities:
- a. Auckland
- b. Wellington
- c. Christchurch
- d. London
- e. Paris

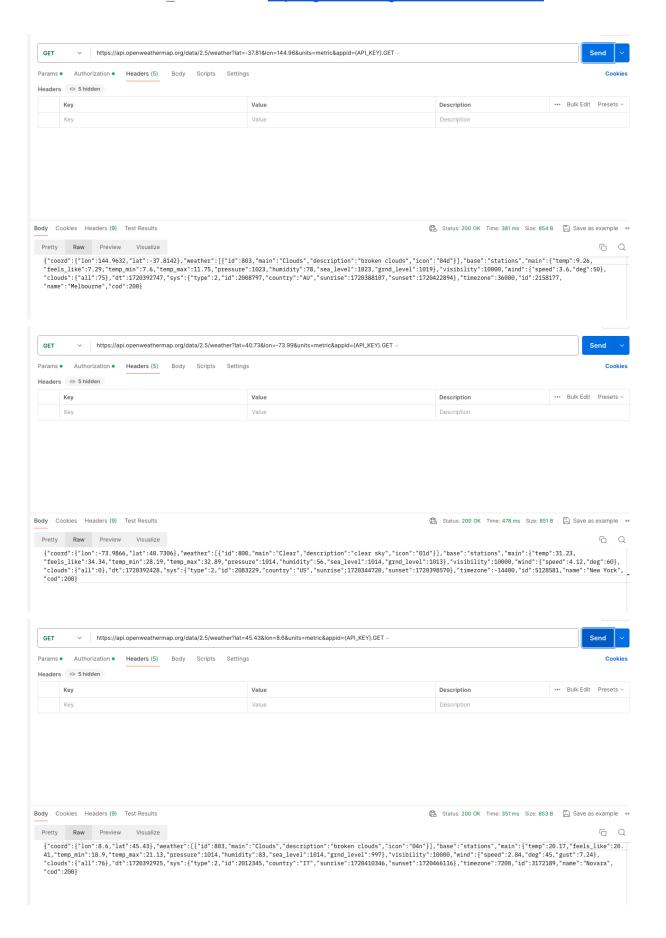




2. Get city name, weather description and minimum and maximum temperature in Celsius for the following cities based on their geographical coordinates:

Longitude: -73.99, Latitude: 40.73
 Longitude: 8.6, Latitude: 45.43
 Longitude: 144.96, Latitude: -37.81

IT6038-Web-Services Id:20220676 https://github.com/guilleozan/web-services

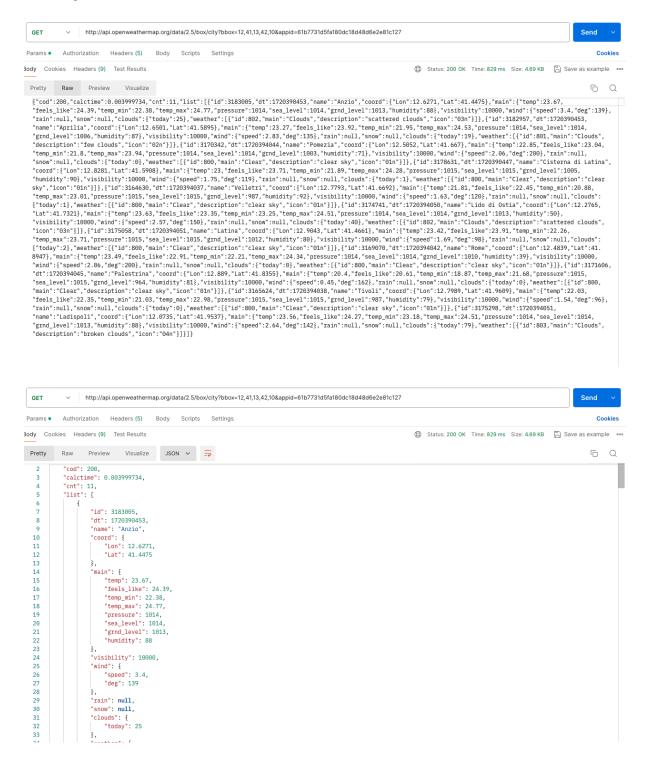


3. List cities and their coordinates within the following box:

Longitude: from 12 to 13Latitude: from 41 to 42

Zoom: 10

•



Task 2: Using cURL command line tool to connect to a RESTful API

- 1.Get weather description and minimum and maximum temperature in Celsius for the following cities:
 - 1. Queenstown,

2. Dunedin,

```
Souther South Sout
```

3. Rotorua,

4. Munich,

5. Madrid

2.Get city name, weather description and minimum and maximum temperature in Celsius for

the following cities based on their geographical coordinates:

1. Longitude: 8.6, Latitude: 45.43

```
Secretary (Secretary (
```

2. Longitude: 151.22, Latitude: -33.85

```
| Country | Coun
```

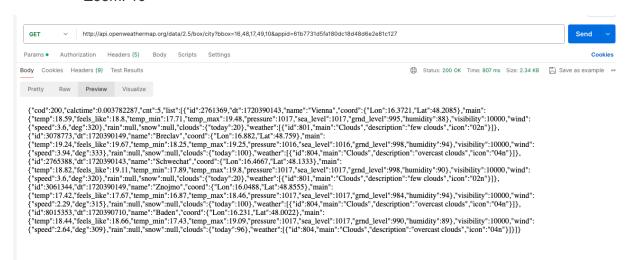
3. Longitude: -122.33, Latitude: 47.6

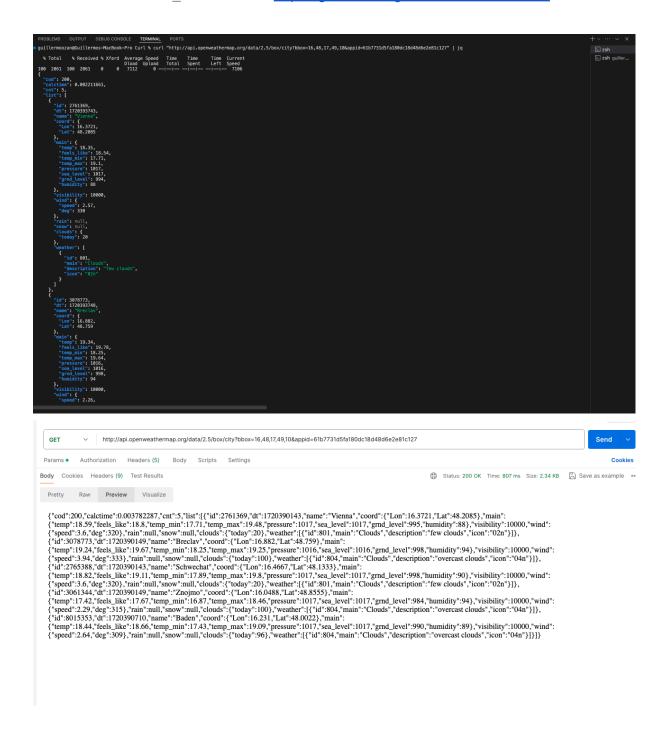
3. List

cities and their coordinates within the following box:

Longitude: from 16 to 17Latitude: from 48 to 49

Zoom: 10

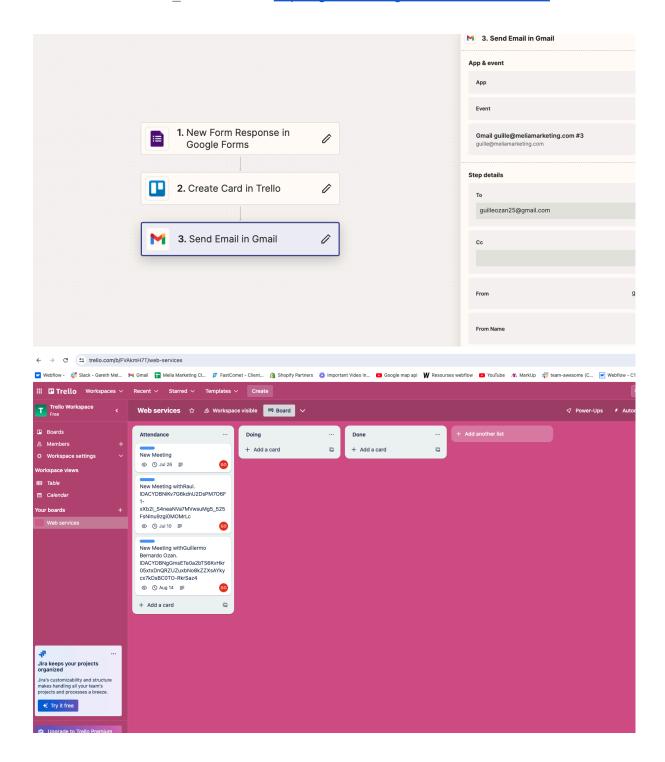




Task 3 Creating Webhooks

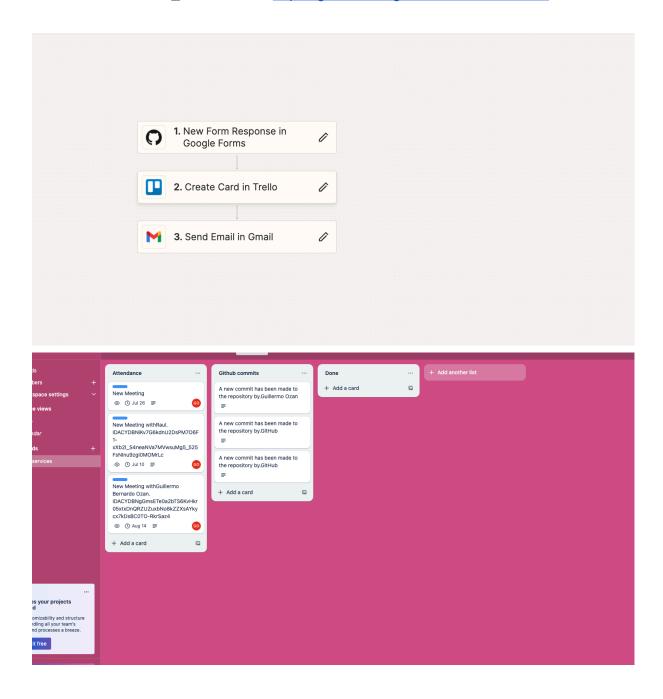
Loom video explain

https://www.loom.com/share/fe06c94e56154521b8c715d23ce1a626?sid=56b75ba0-1d19-4b3a-861a-c02f273e4312



Video explain

https://www.loom.com/share/019c2c4a824d4906b6949a296adabb20?sid=737ab159-9323-4482-a473-f76448063666



PART B

To facilitate testing, I have included a few screenshots of the application and the database.

If you wish to test it in your own environment, please use the following login credentials for MongoDB Atlas. Ensure that you authenticate your IP address to gain access.

mongodb username: guilleozan25@gmail.com

password: 4S+d6Fgr5i\$kurB

https://github.com/guilleozan/web-services

API Planning

Definition of HTTP Requests

Getting Information from the Database about Multiple Objects

- 1. GET /api/albums: Retrieve a list of all albums.
- 2. GET /api/artists: Retrieve a list of all artists.
- 3. GET /api/playlists: Retrieve a list of all playlists.

Getting Information from the Database about a Specific Object

- 1. GET /api/albums/:id: Retrieve information about a specific album by ID.
- 2. GET /api/artists/:id: Retrieve information about a specific artist by ID.
- 3. GET /api/playlists/:id: Retrieve information about a specific playlist by ID.

Deleting an Object from the Database Based on a Specific Parameter

- 1.DELETE /api/albums/:id: Delete a specific album by ID.
- 2.DELETE /api/artists/:id: Delete a specific artist by ID.

Updating an Object from the Database Based on a Specific Parameter

- 1. PUT /api/albums/:id: Update a specific album by ID.
- 2. PUT /api/artists/:id: Update a specific artist by ID.

2. API Planning Document

Who Will Be Using the API?

- 1. Application Developers: Developers building music-related applications that need access to information about albums, artists, and playlists.
- 2. End Users: Users of applications that consume data via the API to search and manage their favorite music.

Benefits of the API

- 1. Centralized Access to Music Information: Provides a single source of information for albums, artists, and playlists.
- 2. Facilitates Integration: Allows developers to quickly and efficiently integrate music functionalities into their applications.
- 3. Data Management: Enables end users to manage their music preferences through applications using the API.

Actions the API Needs to Accomplish

Retrieve lists of albums, artists, and playlists: Allow users and developers to access collections of music data.

Retrieve specific details of albums, artists, and playlists: Provide detailed information about individual objects for a richer user experience.

Create new records of albums, artists, and playlists: Allow adding new data to the database. Update existing information: Facilitate the update of existing data in the database. Delete specific records: Allow deletion of data that is no longer needed or is incorrect.

API Name: Music Hub API

Version: 1.0

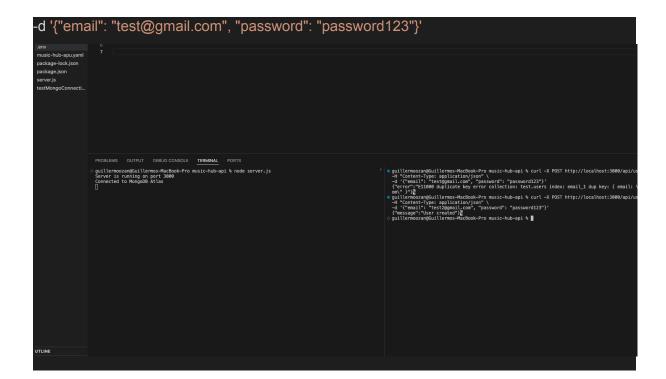
HTTP Requests

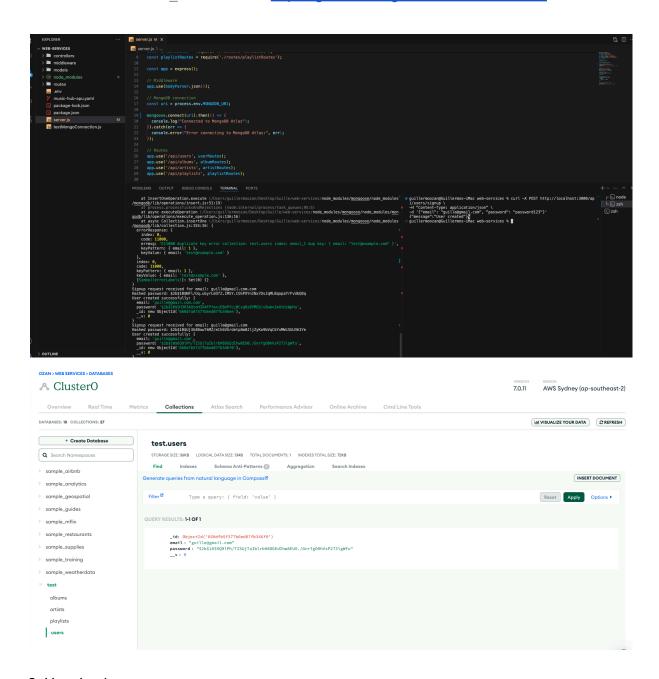
- 1. GET /api/albums
- 2. GET /api/artists
- 3. GET /api/playlists
- 4. GET /api/albums/:id
- 5. GET /api/artists/:id
- 6. GET /api/playlists/:id
- 7. DELETE /api/albums/:id
- 8. DELETE /api/artists/:id
- 9. PUT /api/albums/:id
- 10. PUT /api/artists/:id

1. User Registration

curl -X POST http://localhost:3000/api/users/signup \

-H "Content-Type: application/json" \



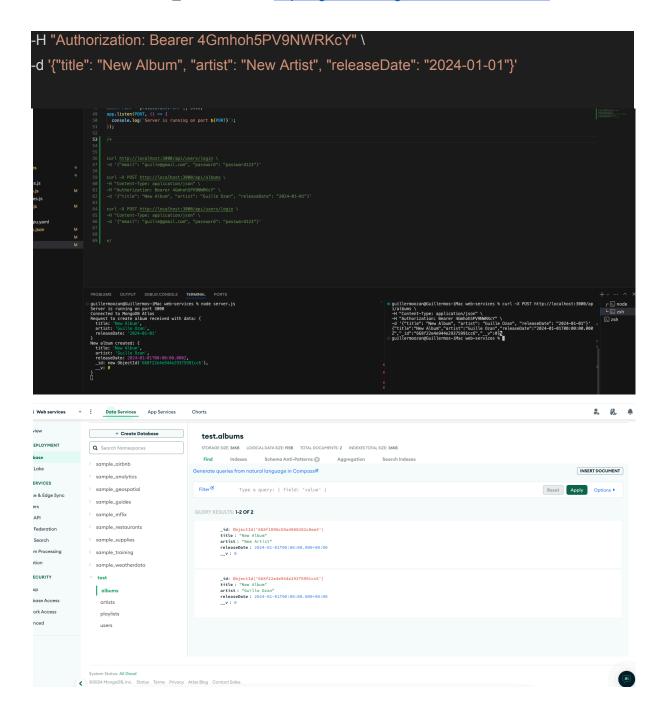


2. User Login

```
curl -X POST http://localhost:3000/api/users/login \
-H "Content-Type: application/json" \
-d '{"email": "test@gmail.com", "password": "password123"}'
```

3. Create an Album

```
curl -X POST http://localhost:3000/api/albums \
-H "Content-Type: application/json" \
```



4. Get All Albums

```
curl -X GET http://localhost:3000/api/albums \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"
```

5. Get an Album by ID

```
curl -X GET http://localhost:3000/api/albums/<album_id>\
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"

BY U.K. GET http://localhost:3000/api/artistv./del72599644629375991cds\

BY GUTPUT DBUG CONSOLE TERMANAL PORTS

Is renting on port 3000

BY GONE A STATES A STATE
```

6. Update an album

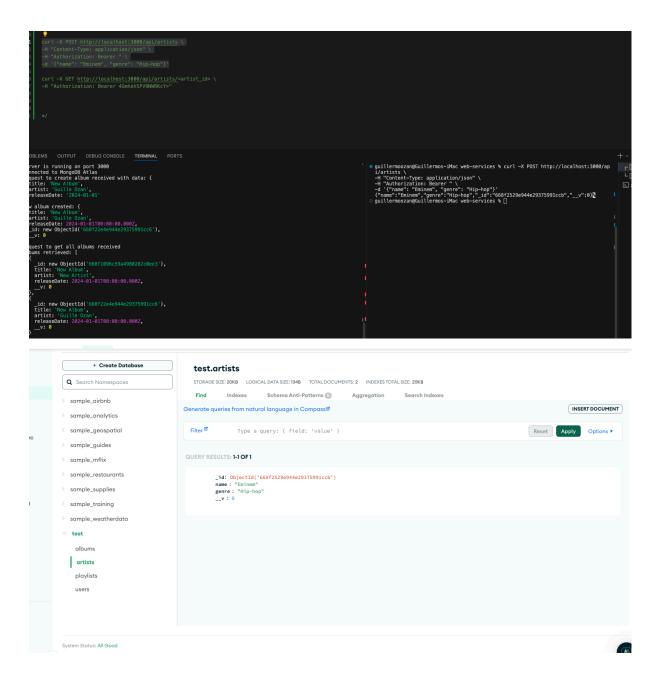
```
curl -X PUT http://localhost:3000/api/albums/<album_id> \
-H "Content-Type: application/json" \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY" \
-d '{"title": "Updated Album", "artist": "Updated Artist", "releaseDate": "2024-02-01"}'
```

7. Delete an album

```
curl -X DELETE http://localhost:3000/api/albums/<album_id> \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"
```

8. Create an artist

```
curl -X POST http://localhost:3000/api/artists \
-H "Content-Type: application/json" \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY" \
-d '{"name": "New Artist", "genre": "Genre"}'
```



9. Get All Artists

curl -X GET http://localhost:3000/api/artists \

-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"

10. Get an Artist by ID

```
curl -X GET http://localhost:3000/api/artists/<artist_id> \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"
```

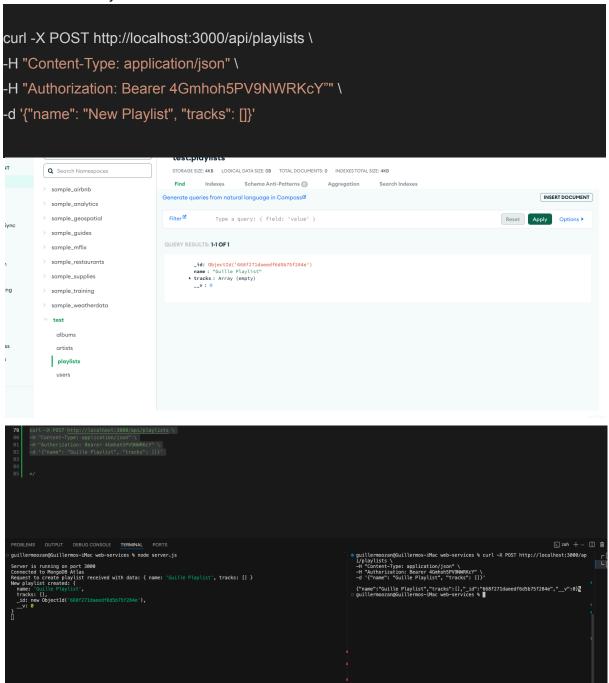
11. Update an artist

```
curl -X PUT http://localhost:3000/api/artists/<artist_id> \
-H "Content-Type: application/json" \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"" \
-d '{"name": "Updated Artist", "genre": "Updated Genre"}'
```

12. Delete an artist

```
curl -X DELETE http://localhost:3000/api/artists/<artist_id> \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY""
```

13. Create a Playlist



14.Get all playlists

curl -X GET http://localhost:3000/api/playlists \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY""

15. Get a playlist by ID

```
curl -X GET http://localhost:3000/api/playlists/<playlist_id> \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY""
```

16. Update a playlist

```
curl -X PUT http://localhost:3000/api/playlists/<playlist_id> \
-H "Content-Type: application/json" \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY"" \
-d '{"name": "Updated Playlist", "tracks": []}'
```

17. Delete a Playlist

```
curl -X DELETE http://localhost:3000/api/playlists/<playlist_id> \
-H "Authorization: Bearer 4Gmhoh5PV9NWRKcY""
```

```
M 89

W 20

M 89

W 30

M 31

M 32

M 32
```