Backend Supporting documentation

Required software:

- Sql server 2017 (v 15.0.2000.5)
- Sql Server Management Studio v.17 or latest
- Visual studio 2019 community
- .Net Framework 4.7.2

STEP 1: Database creation

- 1 Execute **ArtistAPI.sql** by copy and paste the contents in a new query on SSMS.
- 2 Once the script is executed, we should have on our table **dbo.artist** the following values:

	artistld	artistName	artistCountry	artistAliases
1	144ef525-85e9-40c3-8335-02c32d0861f3	John Mayer	US	
2	18fa2fd5-3ef2-4496-ba9f-6dae655b2a4f	Johnny Cash	US	Johhny Cash, Jonny Cash
3	24f8d8a5-269b-475c-a1cb-792990b0b2ee	Rancid	US	????
4	29f3e1bf-aec1-4d0a-9ef3-0cb95e8a3699	Transplants	US	The Transplants
5	435f1441-0f43-479d-92db-a506449a686b	Mott the Hoople	GB	Mott The Hoppie,Mott The Hopple
6	6456a893-c1e9-4e3d-86f7-0008b0a3ac8a	Jack Johnson	US	Jack Hody Johnson
7	650e7db6-b795-4eb5-a702-5ea2fc46c848	Lady Gaga	US	Lady Ga Ga, Stefani Joanne Angelina Germanotta
8	65f4f0c5-ef9e-490c-aee3-909e7ae6b2ab	Metallica	US	Metalica,????
9	931e1d1f-6b2f-4ff8-9f70-aa537210cd46	Operation lvy	US	Op lvy
10	a9044915-8be3-4c7e-b11f-9e2d2ea0a91e	Megadeth	US	Megadeath
11	b625448e-bf4a-41c3-a421-72ad46cdb831	John Coltrane	US	John Coltraine, John William Coltrane
12	b83bc61f-8451-4a5d-8b8e-7e9ed295e822	Elton John	GB	E. John, Elthon John, Elton Jphn, John Elton, Regi
13	c44e9c22-ef82-4a77-9bcd-af6c958446d6	Mumford & Sons	GB	
14	d700b3f5-45af-4d02-95ed-57d301bda93e	Mogwai	GB	Mogwa
15	f1571db1-c672-4a54-a2cf-aaa329f26f0b	John Frusciante	US	John Anthony Frusciante

STEP 2: Change ConnectionString

- 1 Open **ArtistAPI.sIn** on Visual studio.
- 2 Go to the Web.config. Change the **data source** of the **connectionString**. Replace the underlined value in screenshot to your server instance.

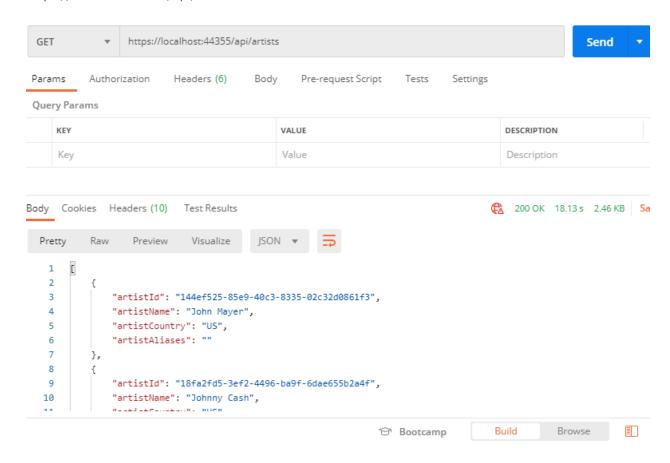
```
data source=DESKTOP-SLKV2FC\MSSQLSERVER17;initial catalog=DB_Artists;
```

- 3 Right click the solution and restore nugget packages
- 4 Build solution and run the project
- 5 When the home page of https://localhost:44355/ is correctly open, we can start testing on POSTMAN.

List of collections:

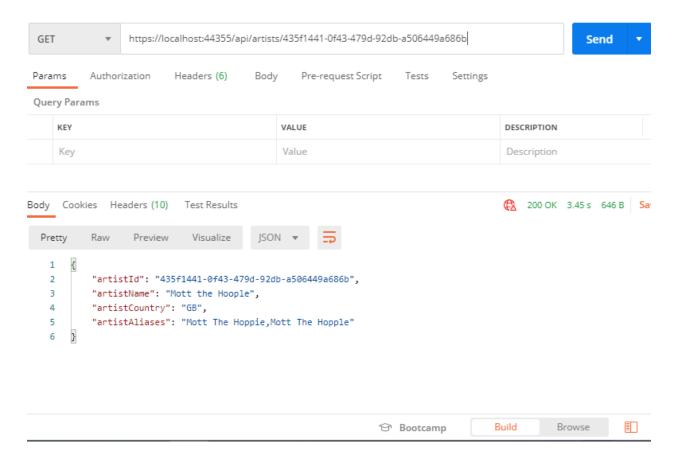
1- Query all artist in the database:

https://localhost:44355/api/aritsts



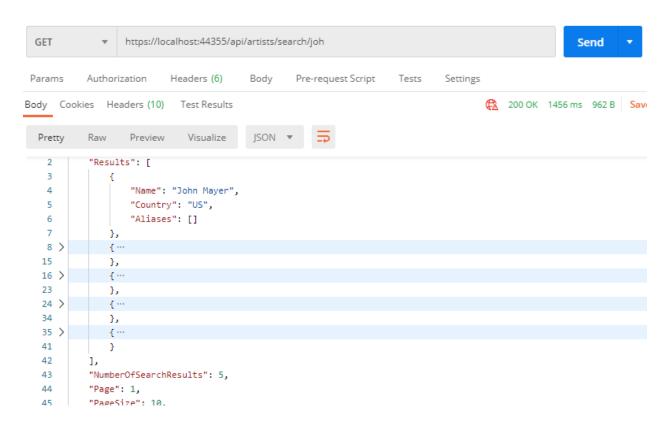
2- Query an artist by a specific Id:

https://localhost:44355/api/aritsts/<artistId>



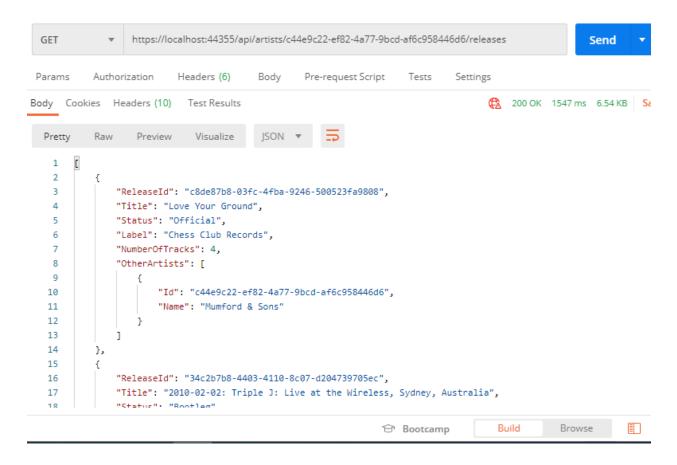
3- Query artists that have a name or one of their aliases starting with <criteria> https://localhost:44366/api/artist/search/<criteria>/<pageNumber>/<pageSize>

 \underline{PS} : <pageNumber> and <pageSize> are optional and have a default value 1 and 10 respectively.



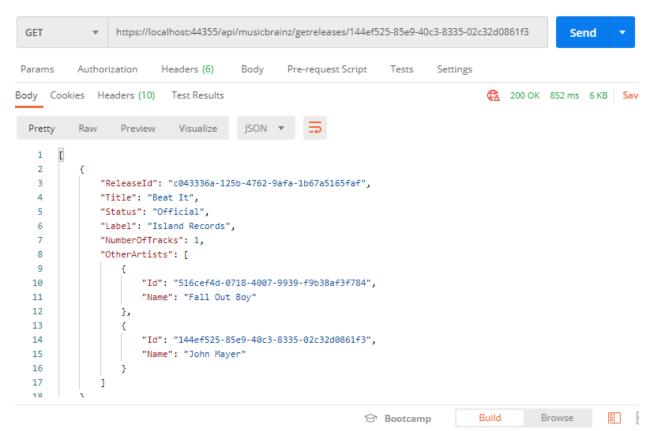
4- Search releases by artistId https://localhost:44366/api/artist/<artist_id>/releases

<u>PS</u>: Return **all the releases** for a selected artist where the **artist_id uniquely identifies an artist in the SQL Server database and MusicBrainz API.** So, it will return an empty array if one of the conditions is not fulfilled.



5- The search releases above consume MusicBrainz API. For testing the appropriate endpoint, we can query the following link: https://localhost:44355/api/musicbrainz/getreleases/<artistId>

The artistId used in the below picture: 144ef525-85e9-40c3-8335-02c32d0861f3



The data we got has been retrieved to the raw data from this link http://musicbrainz.org/ws/2/release/?query=arid:144ef525-85e9-40c3-8335-02c32d0861f3&fmt=json

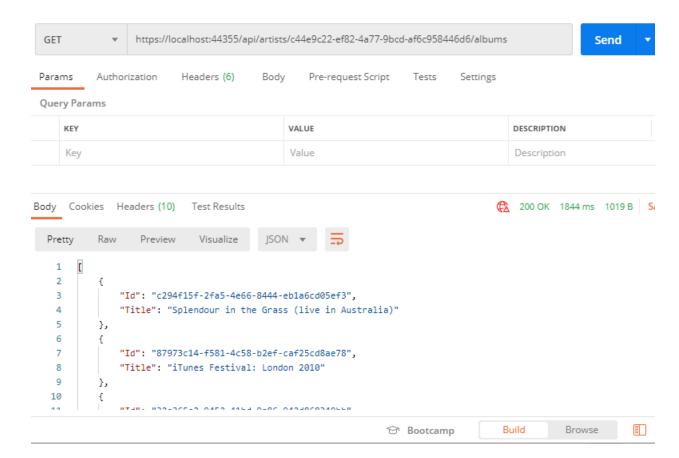
6- Query 10 first albums by artistId

https://localhost:44355/api/artists/<artistId>/albums used artist id in the below picture: c44e9c22-ef82-4a77-9bcd-af6c958446d6

PS:

- 1 The artistId provided in the assessment is wrong
- /artist/6c44e9c22-ef82-4a77-9bcd-af6c958446d6/albums will return the first 10 albums from Mumford & Sons.

It must begin with c but not with 6.



2 – The album is selected in function of the "primary-type" attribute of each item in release-group list.

By the way – We only have 7 albums when using the key "c44e9c22-ef82-4a77-9bcd-af6c958446d6"

The raw value of the above query can be checked from:

https://musicbrainz.org/ws/2/release-group/?query=arid:83b9cbe7-9857-49e2-ab8e-b57b01038103&fmt=json

7- The sixth endpoint is consuming MusicBrainzApi that can be checked from this link: https://localhost:44355/api/musicbrainz/getalbums/<artistId>

The used artistId in the below and above picture: c44e9c22-ef82-4a77-9bcd-af6c958446d6

