

RESEARCH DOCUMENT

S3 IPS - MUZIEKZAALS

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1.0	21.03.2022
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Question 1

1. Problem definition

During the next stage of my project I will need to make use of Spotify's API to be able to give access to my customers to the Spotify catalogue. The will of being able to provide this functionality made me think about how can I use this API, what am I allowed to do and what I am not, and specially which possibilities of integration within my React App do I have.

2. Main question

How to retrieve data from a public API in React?

3. Sub questions

How do I make use of the API data in my code? What am I allowed to do and what not? what are the requirements of a company when allowing the use of its product by developers?

4. DOT framework

Domains (What): The specific application context of my project music streaming market. There are multiple streaming services that offer a huge music catalogue and some ones did include very basic options for synchronized listening using the same wifi connection. My proposal is innovative because it allows users to synchronize their music experience from their own devices and using different connections

Trade-offs (Why): The reason why I decided to develop this project starts with a personal interest since as a musician, multiple times I felt the necessity to share the music that I am listening with other people and talk about the performance in real time. Muziekzaals will provide a new tool to the melomaniac bringing him closer to a live performance and a social experience .

Strategies and methods (How): Strategies and methods that I followed to solve this specific question about the API are Library and Lab:

5. Methods

I used the available documentation in the Spotify API website¹ referred to the Web API product. They have very specific documentation about how to use their product in different projects. They also have multiple indications about how to manage their data, how to follow their marketing rules and how to threat their customers data.

I experimented as well with others simple API² during previous stages of the project, for example retrieving their data after log in.

6. Results

To use the API on my React application I need to import and the client Axios in my page, set a const in which I request to the API's URL the required data, then it will storage the response using a function that updates the states value and when I want to use it I only need to call it.

7. Conclusion and Recommendations

Although this was not the most problematic topic that I have had to face until now during the development of this project, it is one of the most characteristics topics of it since I am making use of a public API and in order to use it I can not just copy the URL and make it fit in my code but also

¹ <https://developer.spotify.com/documentation/web-api/>

² <https://api.chucknorris.io/jokes/random>

research about the API functionalities, characteristics, possibilities, the marketing requirements of the company, privacy policies when we are talking about the company's customer data... in conclusion it is an interesting topic to be aware of, specially for those who want to develop their own products using already existing tools.