

# Frontend developer Challenge

## Introduction

To evaluate your programming skills, we would like to share a fun challenge with you! The main goal will be to create a **simplified version of Spotify using the React Framework**. For this, you will have to work with the endpoints we created using the Spotify API (c.f. setup instructions) to fetch data. The first step will be adding the type definitions of the Spotify data we are fetching with the API. After completing this, you will be able to use the hooks defined in *apiSlice.tsx*.

## Description of the app

For this particular Spotify version, we want to let our users to visualize their Playlists, and see the Tracks from each Playlist. Every feature listed below is **mandatory** and should be implemented as part of this challenge.

As a user (currently logged in):

- I should be able to see that I am logged in and the basic information about my profile.
- I should be able to select an existing playlist from a list and display its content.
- I should be able to consult a given playlist's content (every track added to it).
- I should be able to perform a search for any tracks and consult the search results.

## Nice to have

If you want to play a bit more with it, you can add one or more of the following features:

- I should be able to sort the tracks by name, artist, duration, and so on (every track's field).
- Display additional track information (bars, beats, sections, segments, ... )
- Allow the user to switch to a Dark mode
- Want to do even more? Please feel free to surprise us! ;-)

Here is the link to the Spotify documentation where you will find any information you need to manage this challenge with success: <https://developer.spotify.com/documentation/web-api/reference>.

*To help you design the app, we provide you with some wireframes. We ask you to respect the place of each element. However, feel free to polish the final rendering in order to improve the final result.*

## Requirements

To carry out this project, we ask you to use the following: **React** (latest version), **TypeScript**, **functional components**, and **Redux (with redux-toolkit)**.

To polish the UI a bit, feel free to add any library that suits your needs: ElementUI, Material, Bootstrap, ...

## Setup

To use the Spotify Web API, here are the instructions you need to follow:

1. **Download the boilerplate project** [here](#)
2. Create a free Spotify account (if you don't have one)
3. Create a new Application by visiting the page: <https://developer.spotify.com/dashboard/applications>
4. Copy your Client ID and Secret into the environment variables (REACT\_APP\_SPOTIFY\_CLIENT\_ID and REACT\_APP\_SPOTIFY\_CLIENT\_SECRET) within an .env file. This project was bootstrapped with [Create React App](#) and use [dotenv](#) to load these additional environment variables into your app.
5. We ask you to authenticate your app by using the **Implicit Grant Flow**. That will be mandatory to act, such as creating a new playlist. NOTE: All the authentication part is already implemented within the repo.
6. Don't forget to set up the redirect URI in your app settings on the Spotify Developer Dashboard.

**Note 1:** The starter repository aims to be used as a boilerplate to help you start faster.

**Note 2:** You don't need any server. You only need to create a React app that will consume the Spotify API.

## Timing & how to get help

We will give you a **maximum of 10 days** to send us your code.

If you finish it before, that's perfect! In any case, we will organize a half-way meeting of 15 minutes 6 or 7 days after you receive the challenge. The objective is to do a quick ETA of your progress and to answer all the questions you might have.

Our culture at AppTweak is defined by four values, Learn and Play are two of them.

We learn from each other, thrive for developing new skills and develop ourselves. But we also know there isn't one best way of doing things, that's why we like to explore. So we value people not afraid of asking for help when they don't know, and willing to try new ideas.

Therefore, if something is not clear, if you are stuck or have a question about the direction to take, **really do not hesitate to reach out to me by email** (emilie@apptweak.com).

Finally, in order to share your final work with us, push it to a repo on Github, Gitlab, or Bitbucket, through a **private repo**. Once done, we will ask you to give access to some accounts so we can check your solution.

## Wireframes

Here are the wireframes on which you should base your implementation of the challenge. *Feel free to add your personal touch!*

AppTweak - Spotify challenge

https://tracks.apptweak.com

Search for a track Search Add new playlist

My new playlist Selected playlist description

Cover	Track name Artist(s)	Album name	Release date
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Cover	Track name Artist(s)	Album name	Release date
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Cover	Track name Artist(s)	Album name	Release date
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AppTweak - Spotify challenge

https://tracks.apptweak.com

Search for a track Search Add new playlist

cover	Track name	+
cover	Track name	+
cover	Track name	+

Release date

Cover	Track name Artist(s)	Album name	Release date
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Cover	Track name Artist(s)	Album name	Release date
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