

# Spotify-like App

## Description

This project focuses on building a Spotify-like application using JavaScript. You will develop an interactive web app that allows users to log in with a Spotify account, view their profile, favorite artists and albums, and search for songs or artists using the Spotify Web API. The main goal of the project is to apply the knowledge acquired during the lessons to build a modern, responsive and user-oriented application.

## Goal

- Use Spotify Web API for authentication and user data access: <https://developer.spotify.com/documentation/web-api>
- Reinforce JavaScript skills by implementing real-world functionalities inspired by music streaming apps.
- Develop a web application focused on interactivity, performance and coding best practices.

## Minimum Features

- Login with Spotify – secure authentication to access personal data.
- User Profile – display name, email and profile picture.
- Top 5 Artists – list generated based on the user's preferences.
- Top 5 Albums – most listened albums of the user.
- Dynamic Search – search for songs, artists or tracks with real-time results.

## Other Features (optional)

- Play a song functionality
- Create Playlists – allow users to organize their favorite tracks.
- Shuffle & Repeat Modes – implement shuffle play and repeat track/playlist options.
- Recommendations – suggest songs or artists based on the user's listening habits.
- Offline caching – access previously played songs and playlists without internet connection.
- Installable PWA – the app can be added to a mobile device like a native app

## Software Principles

- Separation of concerns – organize application logic, DOM manipulation, and API calls in distinct modules.
- Reusability and modularity – functions should be easy to reuse and maintain.
- Error handling – manage failed requests, missing connections, or incomplete data.
- Best Practices – use modern standards (ES6+, async/await, const/let, arrow functions).