

# React

## Assignment

We have formulated an assignment to see how you code and think about problems.

For this assignment we ask you to create a simple app in which a user is able to search for songs and add them to their playlist. The user has the ability to add and remove songs from their playlist. This should be possible from the playlist as well as from the search results.

Search: <input type="text" value="Thriller"/>		
Title	Artist	Add/Remove from playlist
Thriller	Michael Jackson	Remove
Thriller	Fall Out Boy	Add
Thriller	De Toppers	Add
...	...	...

<b>My playlist</b>		
Title	Artist	Remove from playlist
Thriller	Michael Jackson	Remove
Bohemian Rhapsody	Queen	Remove
Halo	Beyonce	Remove

Figure 1: Example of a possible solution

For your application starter feel free to use **create-react-app** or your own starter kit, but do not spend too much time on it, since the assignment has a time limit.

## Requirements

- The time limit for this assignment is 3 hours.
- Use React (required) and TypeScript (preferred).
- Use the Last.fm API to search for songs. See Sources for more info.
- The source code of your project should be uploaded to a Git repository and the link sent to us when you are ready.
- Depending on your experience we expect different solutions. For this assignment we are looking at the technical and functional implementation first and the styling second. • If you are applying for a more experienced position, we will give more attention to the quality of the overall solution, the scalability of your project structure and the user experience of the application.
- Keep it simple and use extra dependencies only if you think it is required. If you are passionate about a certain technology, we would like to see it if you have enough time.

## Guidelines

- Your app should be functional on a screen width ranging from 900px to 1920px. Being responsive and mobile-friendly is a plus, but not needed.

## Sources

Last FM API

**API Key:** 0b323aba795f3ac625e85352f08e65b1

**Documentation:** <https://www.last.fm/api/show/track.search>

**Example URL:**

[http://ws.audioscrobbler.com/2.0/?method=track.search&track=Thriller&api\\_key=0b323aba795f3ac625e85352f08e65b1&format=json](http://ws.audioscrobbler.com/2.0/?method=track.search&track=Thriller&api_key=0b323aba795f3ac625e85352f08e65b1&format=json)