

Stack Choice Justification

TECH STACK

Frontend

- React + Redux
- Material UI

Backend

- API (SoundCloud + Youtube + Genius)
- Nodejs + Express
- MongoDB, Mongoose
- Token Based Authentication

CI/CD

- Heroku
- Netlify
- Github Actions

STACK JUSTIFICATION

React – React is flexible and has great community. It delivers great performance as it leverages the virtual DOM and testing is easy.

Material UI – Easy to develop beautiful designs, provides huge number of components, super customizable, also provides icons and have great community.

APIs – Soundcloud provides free music widget and streaming options, Genius have huge lyrics database and well documented dev apis and youtube provides the best video experience and also free.

Node JS + Express JS – Node is fast and scalable and handles multiple connections at ease. Express is the most popular and easy to use library for API.

MongoDB – It's a JSON based and highly scalable. As we kind of expect new functionalities in future so our Database should support scalability.

Heroku, Netlify – Its free and convenient and has support for Github actions and setting up CI/CD is easy.

Github Actions – Setting up CI/CD is easy and supports for testing, linting.