

Round 3

Skills tested

Clean, Readable, Functional, User Experience, Bugs

Problem Statement

Hello folks, Relevel a software engineering firm is looking to design an in-house music player app similar to the Sound Cloud Tracker app. The idea is still at the initial concept stage and needs a proof of concept (POC) for validation. As a POC you must develop a UI App based on React for different functionalities.

Your task is to go through the Problem Statement and the Requirements and create a Sound Clone app for Relevel. Please solve the problem(s) and submit them to us.

Your submission must contain:

- A link to your code.
- A screen recording explaining your application.

Follow the standard naming conventions and your comment on the code must be easily understandable. We are looking for a basic working prototype so make your assumptions accordingly and pace yourself.

Problem setup

To start the development process, follow the below steps.

1. Download NPM on your local system - Windows OS, Linux/Mac OS
2. Download the zip file to the code template here.

After installing the prerequisite dependencies mentioned above, you need to do the following:

3. Download the repo on your local machine.
4. Run the command “npm install” to install all the necessary dependencies.
5. Run the command “npm start” to start the development server.
6. The Hosted app can be viewed in the browser by going to the URL - <http://localhost:3000/>
7. All the images needed for development are provided under the public/images directory.
8. You can now start the development process by going through the below user stories.

You are free to install and use any other dependencies over and above the ones installed above to ensure the completion of your tasks.

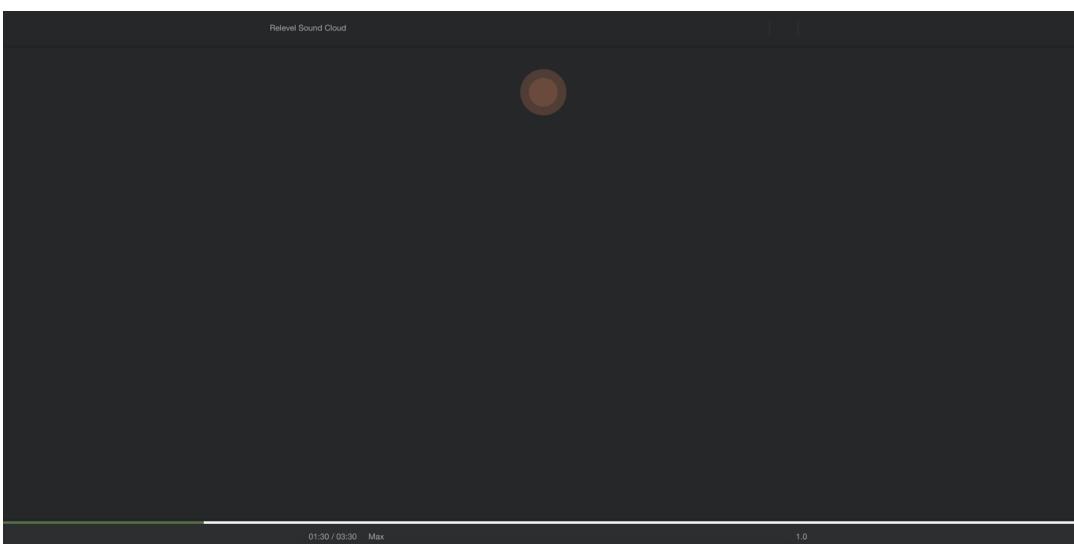
Round 3

User Stories

Story 1 - Landing Page and Song Card

The task is to create a landing page that will be shown every time the user hits the URL of the website/app. The various functionalities to develop under this story are: -

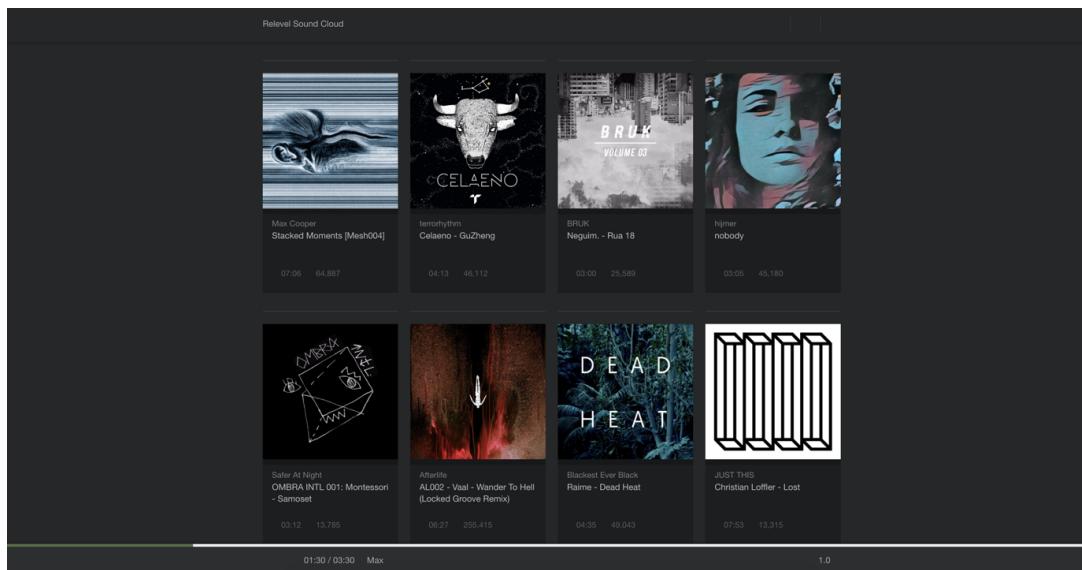
- a. The Landing page is displayed whenever the user visits the website/app.
- b. The Landing page should be like the image provided below.
- c. There should be a header bar displaying the “Relevel Sound Cloud” text.
- d. The page should have an animated icon for loading as shown in the image.
- e. Initially, there won’t be any data, hence the animated icon for loading should be displayed.
- f. At the bottom of the page, a template for the music player should be developed. The music player can be static for now and similar to the image below.
- g. Appropriate styling should be done using CSS.



The task is to create a song card for displaying the songs. The various functionalities to develop under this story are:

- a. The card should be similar to the card given in the image below.
- b. Each card should have an image(artworkUrl), username, title, duration, and playback count.
- c. The data representation can be viewed from the data file playlist.json.
- d. The images are provided under the folder “public/images”.
- e. Appropriate styling should be done using CSS.

Round 3



Story 2 - Home Page with Data

The task is to display the landing page with data. The various functionalities to develop under this story are:-

- The landing page of the app with data should be similar to the image provided below.
- The data can be sourced from the data file `playlist.json`.
- The Loader icon should be displayed till the data gets loaded.
- The song card should be displayed in matrix form as shown in the image. Each row should contain 4 cards only.
- Appropriate styling should be done using CSS.

Round 4

Skills tested

Maintainable, Code Standardization, Scalable, Functional, User Experience, Bugs, Communication (through Loom Video)

Problem Setup

Use the same setup and extend the code written in the previous round.

User stories

Story 1 - Search Functionality

The task is to create the search functionality for the app. The various functionalities to develop under this story are: -

- a. The search functionality of the app should be similar to the image provided below.
- b. It will enable the user to search and filter their songs from the songs list.
- c. The functionality should filter the songs list based on the characters being typed.
- d. If the search field is cleared, then the full songs list should be displayed.
- e. Appropriate styling should be done using CSS.

