### Frontend Challenge Instructions

Summary: Develop a React application that interacts with the REST API provided by the backend. This application will allow users to search for music tracks using their ISRC codes and display metadata and cover images retrieved from the backend.

Framework Requirements:

* React: Use React to build the frontend application.
* React Router: For navigation within the application.
* Axios or Fetch API: To make HTTP requests to the backend API.
* A component library: For UI components and styling, though any other UI library or custom styles are also acceptable.

Frontend Requirements:

1. Track Metadata Search and Display:
   * Create a form that allows users to input an ISRC code.
   * On form submission, make a request to the backend endpoint to create a track record: POST http://localhost:8080/codechallenge/createTrack?isrc=ISRC\_CODE.
   * After creating a track, navigate to a new page or update the UI to show:
     + Track Name
     + Artist Name
     + Album Name
     + Explicit Content Indicator
     + Playback Seconds
     + Cover Image (retrieved from the backend)
2. Track Metadata Retrieval:
   * Create a page or component that allows users to input an ISRC code to fetch previously stored track metadata.
   * On input submission, make a request to retrieve track metadata: GET http://localhost:8080/codechallenge/getTrackMetadata?isrc=ISRC\_CODE.
   * Display the track metadata similarly to the create track functionality.
3. Cover Image Retrieval:
   * Display the cover image alongside the track metadata.
   * The cover image should be fetched from the backend using: GET http://localhost:8080/codechallenge/getCover?isrc=ISRC\_CODE.
4. Error Handling and User Feedback:
   * Handle any errors that occur during API requests and display appropriate error messages to the user.
   * Provide user feedback for actions such as form submission success or failure.
5. User Interface:
   * Create a clean and intuitive user interface.
   * Use responsive design principles to ensure the application is usable on various devices (desktop, tablet, mobile).

Implementation Details:

* Component Structure:
  + Search Form Component: To handle ISRC input and submission.
  + Track Metadata Component: To display track metadata and cover image.
  + Error Component: To display error messages if something goes wrong.
* State Management:
  + Use React’s built-in state management or preferably a state management library such as Redux or Zustand to manage the application state.
* Routing:
  + Use React Router for navigation between pages (if applicable).
* Styling:
  + Utilize CSS or a styling framework/library such as Material UI to ensure a visually appealing design.

Development and Testing:

* Ensure the frontend is fully functional and can interact with the backend API as described.
* Use tools like Postman or browser developer tools to test API endpoints and debug issues.
* The application should be tested in different browsers to ensure compatibility.

Deployment:

* If possible, deploy the application to a platform like GitHub Pages, Netlify, or Vercel, and provide a live demo link.

Documentation:

* Document the setup and usage of your application in a README.md file.
* Include instructions for running the application locally and any dependencies required.

Optional Enhancements:

* Add unit tests or integration tests for your components.
* Implement additional features or improvements based on your own creativity.

Evaluation Criteria:

* Code quality and adherence to React best practices.
* Functionality and correctness of the API integration.
* User interface design and responsiveness.
* Error handling and user feedback mechanisms.

**Details, Suggestions etc.:**

* During any part of this challenge, from basic research on coding patterns and techniques up to and including code generation, do not use ChatGPT or any other LLM (Large Language Model) that has been trained on copyrighted material for which the copyright owner has not been appropriately compensated.  UMG does not allow our internal Developers to use such models, therefore you should not as part of this challenge.