



Frontend Interview Hands-On Assessment

Objective

The goal of this assignment is to assess your understanding of React and **Next.js** fundamentals, including routing, API integration, state management, and UI design. The context is a white-label music distribution platform.

Assignment Brief

Build a Mini Music Distribution Dashboard using Next.js.

Features to Implement

- **Login Page (Mock Authentication):** Simple login form (username + password). Redirect to dashboard on submit (mock validation).
- **Dashboard Page:** Display a list of uploaded tracks in a table format (Title, Artist Name, Release Date, Status). Data must be served from Next.js API routes (mock backend).
- **Track Upload Page:** A form to upload a new track (mock form, no real file upload required). Fields: Track Title, Artist Name, Release Date, Genre. On submit, add the track to the dashboard list.
- **Track Details Page:** Dynamic route (/track/[id]). Fetch and show details of the selected track using the mock Next.js API.
- **Bonus (Optional):** Add search/filter on dashboard, add a theme switcher, use localStorage to persist theme/session.

Technical Requirements

- Use Next.js (latest stable version).
- Use React functional components and hooks.
- Use Next.js dynamic routing for track details.
- All mock data must be served via Next.js API routes (e.g., /api/tracks).
- Manage state using React hooks (useState, useEffect).
- Ensure responsive design for desktop & mobile.

Sample API Route (/pages/api/tracks.js)

```
export default function handler(req, res) {
  const tracks = [
    {
      id: 1,
      title: "Dreamscape",
      artist: "Aria Smith",
      releaseDate: "2024-05-10",
      genre: "Pop",
      status: "Published",
    },
    {
      id: 2,
      title: "Midnight Beats",
      artist: "DJ Raven",
      releaseDate: "2024-06-22",
      genre: "Electronic",
      status: "Draft",
    },
    {
      id: 3,
      title: "Echoes of Tomorrow",
      artist: "Liam Grey",
      releaseDate: "2024-07-01",
      genre: "Rock",
      status: "Submitted",
    },
  ],
  res.status(200).json(tracks);
}
```



Deliverables

- A GitHub repository with your project code.
- A README.md with setup instructions, explanation of approach, and list of features completed.

Evaluation Criteria

- **Correctness:** Does the app meet the requirements?
- **Code Quality:** Is the code clean, readable, and modular?
- **UI/UX:** Is the design simple and user-friendly?
- **React/Next.js Concepts:** Proper use of components, hooks, Next.js features, and API routes.
- **Extra Effort:** Bonus features implemented.

Deadline

Submissions will be accepted until midnight on September 24, 2025. However, submitting your assignment earlier will have a significant impact on final scoring and selections, as these submissions will be prioritized.

Note

Final submission should be mobile/tablet/desktop friendly