Music App Project Documentation

# 🎯 Goal

Build a music app with a ReactJS frontend and Java Spring Boot backend, starting with the login page UI.

# 🔰 Step 0: Prerequisites (Install Required Tools)

Make sure these tools are installed:  
  
- Node.js (https://nodejs.org)  
- VS Code (https://code.visualstudio.com)  
- Git (optional, https://git-scm.com)  
  
After installing Node.js, check:  
 node -v  
 npm -v

# 📁 Step 1: Create a New React App

Open terminal, navigate to E: or desired location:  
  
 npx create-react-app music-app  
 cd music-app  
 npm start  
  
You should see the React logo at http://localhost:3000

# 🎨 Step 2: Install and Configure Tailwind CSS

**Install Tailwind:**

npm install -D tailwindcss@3 postcss autoprefixer

npx tailwindcss init -p

**Edit tailwind.config.js**:

// tailwind.config.js

module.exports = {

content: ["./src/\*\*/\*.{js,jsx,ts,tsx}"],

theme: {

extend: {},

},

plugins: [],

}  
  
**Edit index.css:**  
 @tailwind base;  
 @tailwind components;  
 @tailwind utilities;  
  
**Then run:**

npm start

# 👨‍🎨 Step 3: Create the Login Page Component

**Create src/components/LoginPage.js with the login form UI.**

**CODE:(for loginpage.js)**

import React from 'react';

const LoginPage = () => {

return (

<div className="flex h-screen justify-center items-center bg-gray-100">

<div className="bg-white p-8 rounded-2xl shadow-lg w-96">

<h2 className="text-2xl font-bold mb-6 text-center">Login</h2>

<form>

<div className="mb-4">

<label className="block text-sm font-medium text-gray-700">Email</label>

<input

type="email"

className="mt-1 w-full px-4 py-2 border border-gray-300 rounded-lg focus:outline-none focus:ring-2 focus:ring-blue-400"

placeholder="Enter your email"

/>

</div>

<div className="mb-6">

<label className="block text-sm font-medium text-gray-700">Password</label>

<input

type="password"

className="mt-1 w-full px-4 py-2 border border-gray-300 rounded-lg focus:outline-none focus:ring-2 focus:ring-blue-400"

placeholder="Enter your password"

/>

</div>

<button

type="submit"

className="w-full bg-blue-600 text-white py-2 rounded-lg hover:bg-blue-700 transition duration-300"

>

Log In

</button>

</form>

</div>

</div>

);

};

**export default LoginPage;**  
Use Tailwind CSS classes for styling.  
Update App.js to render <LoginPage />.

# ⚙️ Step 4: Display the Login Page

**In App.js:**

import React from 'react';

import LoginPage from './components/LoginPage';

function App() {

return (

<div>

<LoginPage />

</div>

);

}

export default App;

# 🚀 Step 5: Run the App

**In the terminal:**  
 npm start  
  
You should see the styled login page.

# ✅ Final Result

- React app created  
- TailwindCSS installed and working  
- Login page UI completed

# 📦 What’s Next?

Next, we will start the backend using Java Spring Boot:  
1. Set up Spring Boot  
2. Create user login APIs  
3. Connect frontend to backend