I have successfully built a complete, full-stack application that covers all the core requirements given in required Pdf. Already tested on a physical device

* **A React Native Frontend:** With professional navigation and a clean, user-friendly interface.
* **An Express.js Backend:** With a robust API serving data.
* **A Persistent SQLite Database:** To permanently store all user notes.
* **Complete CRUD Functionality:** Allowing users to Create, Read, Update, and Delete notes.
* **Advanced UI Patterns:** You implemented both a Floating Action Button and header-based actions with Notecard, NoteForm and NoteDetail components.

For Run or test the Note app.

**Prerequisites**

Before you begin, ensure you have the following installed:

* Node.js (LTS version) and npm
* Git (for the GitHub method)
* Android Studio and a configured Android Emulator
* Expo Go app in mobile (Optional)

**Option 1:** **From GitHub (Recommended) Clone the Repository**

For Run the Backend (API Server)

Open a terminal in the project's root directory and run following commands in terminal

* cd backend
* npm install (wait till installation complete)
* npm run dev

Keep this terminal running. Your API is now live at [http://localhost:3000](http://localhost:3000/). or etc.

Run the Frontend (Mobile App)

Open a new, separate terminal in the project's root directory.

* cd frontend
* npm install

**Configure API Address:** Open the following four files and change the API\_URL constant:

screens/NotesListScreen.js

screens/AddNoteScreen.js

screens/EditNoteScreen.js

screens/NoteDetailScreen.js

**Change the line to:** const API\_URL = "[http://10.0.2.2:3000](http://10.0.2.2:3000/)"; (chang ip addres to your current system ip address if not confirmed check my running ipconfig in cmd). Change will be only in red digits.

**Start the App:**

**npx expo start** (remain in same terminal location of frontend run this command)

Press “a” to launch the app on your running Android Emulator. (or if connected device by data cable)

After running this command also have option to scan Expo Go QR code and experience out put on android device both System and mobile must be on same network and Backend server must running on system if using this method any error these are due to bad network or firewall security.