React Native Mobile App Project Setup Guide

1. System Requirements
Before setting up your React Native app, ensure your system has the following:

- Node.js: JavaScript runtime. Download from https://nodejs.org
- npm or yarn: Package managers to install dependencies.
- Watchman (macOS only): Improves file watching.
  Command: brew install watchman
- Java Development Kit (JDK): Required for Android builds.
- Android Studio: Needed to emulate and build Android apps.
- Xcode (macOS only): Required to run iOS simulators.

2. Install Expo CLI
Expo CLI is a toolchain for easier development with React Native.

Command: npm install -g expo-cli
This installs the Expo CLI globally on your machine.

3. Create a New Project
To create a new Expo-managed React Native project:

Command: npx create-expo-app MyMobileApp
This initializes a project named MyMobileApp.

Change directory into the project:
Command: cd MyMobileApp

4. Run the App (Expo)
Command: npx expo start
Starts the Expo development server and opens DevTools in your browser. You can use an emulator or the E

5. Install Dependencies
Example: npm install axios react-navigation react-native-paper
This installs useful libraries like Axios for HTTP, and navigation/UI tools.

Navigation setup:
Command: npm install @react-navigation/native
Command: npx expo install react-native-screens react-native-safe-area-context react-native-gesture-handle

6. Run on Android Emulator
Launch the Android emulator via Android Studio, then run:

Command: npx expo start --android
This opens the app in the Android emulator.

7. Run on iOS Simulator (macOS only)
Command: npx expo start --ios
Opens the app in the iOS simulator (requires Xcode).

8. Build APK or AAB Using EAS
Install EAS CLI:
Command: npm install -g eas-cli

Log in to Expo:
Command: eas login

Configure the project: