**Setting Up React Native Environment for "Incredible Todo List App"**

1. **System Requirements:**

CPU: 64-bit processor

RAM: should be 8GB or higher

Operating System: should be Windows 10 or higher.

1. **Installation Instructions**
2. **Node.js:**

Download and install Node.js from <https://nodejs.org> or via <https://chocolatey.org/install>

Follow the installation instructions provided by the Node.js installer. Or simply do it by running the commands given by chocolatey in your PowerShell.

1. **React Native CLI:**

Open Command Prompt or Terminal.

Install React Native CLI globally by running the following command:

**npm install -g react-native-cli**

1. **Java Development Kit (JDK):**

Download and install JDK using chocolatey as well by entering the following command in the Administrator Command Prompt which can be accessed by right clicking the command prompt and running it as administrator.

**choco install -y nodejs-lts microsoft-openjdk17**

1. **Android Studio:**

Download and install Android Studio from <https://developer.android.com/studio>

Follow the installation instructions provided by the Android Studio installer.

During installation, make sure to check the boxes next to all of the following items:

• Android SDK

• Android SDK Platform

• Android Virtual Device

1. **Configuration Steps:**
2. **Environment Variables:**

* Configure environment variables for Android SDK and JDK.
* Add the path to the Android SDK tools and platform-tools directories to the system PATH variable.
* Add the path to the JDK bin directory to the system PATH variable.

1. **Project Creation:**
2. **Create New React Native Project:**

* Open Command Prompt or Terminal.
* Navigate to the directory where you want to create the project.
* Run the following command to create a new React Native project named "IncredibleTodoListApp":

**npx react-native init IncredibleTodoListApp**

1. **Navigate to Project Directory:**

Change directory to the newly created project:

**cd IncredibleTodoListApp**

1. **Running the Project:**
2. **Start Android Device Simulator:**

* Open Android Studio.
* Launch the AVD Manager.
* Create a new Virtual Device if not already created.
* Start the Android Virtual Device.

1. **Run React Native Project:**

* Open Command Prompt or Terminal.
* Navigate to the project directory if not already there.
* Run the following command to start the React Native Metro Bundler

**npx react-native start**

* In a separate Command Prompt or Terminal window, run the following command to install and run the app on the Android Device Simulator:

**npx react-native run-android**

1. **Troubleshooting:**

**Common Issues:**

* If you encounter any issues during setup or development, refer to the official React Native troubleshooting guide at https://reactnative.dev/docs/troubleshooting.
* Search for solutions on forums like Stack Overflow or ask for help on React Native community forums.

**Resources:**

[**https://developer.android.com/studio**](https://developer.android.com/studio)

[**https://chocolatey.org/install**](https://chocolatey.org/install)

[**https://reactnative.dev/docs/environment-setup?guide=native**](https://reactnative.dev/docs/environment-setup?guide=native)

[**Java Development Kit (JDK) Documentation**](https://docs.oracle.com/en/java/javase/15/)