**Setting Up a React Native Development Environment**

In this guide, we will walk through the step-by-step process of setting up a React Native development environment on a Windows system. We will create a sample React Native app called "Incredible Todo List App" using the React Native CLI. This guide assumes you have a basic understanding of JavaScript and a Windows-based system.

**System Requirements**

Before getting started, ensure your system meets the following requirements:

CPU: 64-bit processor, Intel Core i5 or equivalent

RAM: 8GB or higher

Windows version: Windows 10 or later

**Installation Instructions**

**1. Install Node.js and npm**

1. Visit the official Node.js website at <https://nodejs.org/>.
2. Download the LTS (Long Term Support) version, which is recommended for most users.
3. Run the installer and follow the on-screen instructions.
4. Open your command prompt or terminal and verify the installation by running the following commands:

* **node -v**
* **npm -v**

You should see the installed Node.js and npm versions displayed.

**2. Install React Native CLI**

Open your command prompt or terminal and run the following command to install the React Native CLI globally:

* **npm install expo-cli -global** or **npm install –global expo-cli**

**3. Install Android Studio**

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

Run the installer and follow the installation wizard.

During the installation, make sure to select the "Android Virtual Device" component to set up an Android emulator.

**4. Configure Environment Variables**

To make React Native work smoothly, you need to set up some environment variables:

1. Right-click on "This PC" or "My Computer" and select "Properties."
2. Click on "Advanced system settings" on the left.
3. In the System Properties window, click the "Environment Variables" button.
4. Under the "System variables" section, find and edit the "Path" variable.
5. Add the following paths to the "Path" variable (you may need to adjust these paths based on your installation locations):

* **C:\Program Files\nodejs (for Node.js)**
* **C:\Users\<YourUsername>\AppData\Local\Android\Sdk\platform-tools (for Android SDK tools)**

1. Click "OK" to save the changes.

**Project Creation**

Now that we have set up the development environment, let's create our "Incredible Todo List App."

**1. Create a New React Native Project**

Open your command prompt or terminal and run the following command to create a new React Native project:

* **npx create-expo-app IncredibleTodoListApp**

This command will create a new directory named "IncredibleTodoListApp" with the initial project files and dependencies.

**2. Navigate to the Project Directory**

Change your working directory to the newly created project folder:

* **cd IncredibleTodoListApp**

**Running the Project**

To run the project in an Android Device Simulator, follow these steps:

1. Open Android Studio.
2. Run the device you choose in Android Studio.
3. Open CMD.
4. Run: **npx expo start** or **npm start**
5. Then press “A”.

**Troubleshooting**

**Debugging**

To debug your React Native app, you can use the built-in developer tools. To access these tools, press **Ctrl + M (Windows) or Cmd + M (Mac)** in the emulator.

**Common Issues**

Metro Bundler not running: If you encounter issues with the Metro Bundler, make sure you're in the project directory and run :

* **npx expo start** or **npm start**

Build issues: If you face build-related problems, check the official React Native documentation and community forums for solutions.

**Resources**

Here are some additional resources and documentation to help you on your React Native journey:

* [React Native Official Documentation](https://reactnative.dev/docs/getting-started)
* [React Native Community](https://github.com/react-native-community)

With these instructions, you should now have a React Native development environment set up and running. Happy coding on your "Incredible Todo List App"!