**My React Native Development Journey on Windows**

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**System Requirements:**

To begin my React Native development journey on Windows, I made sure my system met the following specifications:

I have a 7-core processor, with 32GB of memory and I am using Windows 11 which is recommended for React Native development.

**For the Installation:**

I started by installing Node.js using Chocolatey, a convenient package manager for Windows. I opened the Command Prompt as an Administrator and executed the following command:

choco install -y nodejs-lts microsoft-openjdk11

I also installed the Java SE Development Kit (JDK) using this command using Chocolatey:

choco install -y microsoft-openjdk11

A screenshot of a computer program

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Since this is already installed on my system, I made sure it was at least a version.

**Android Development Environment**

**To Install the Android Studio,** I downloaded and installed Android Studio. During the installation process, I carefully selected the following components: Android SDK, Android SDK Platform, and Android Virtual Device. I also installed Android SDK. I open the Android Studio, navigate to SDK Manager, and select More Actions, and choose Languages & Frameworks. In the "SDK Platforms" tab, I checked Show Package Details and ensured that "Android SDK Platform 33" was selected. In the "SDK Tools" tab, I checked "Show Package Details" and made sure "Android SDK Build-Tools 33.0.0" was selected. I then clicked "Apply" to download and install these components. For the **Environment Variable Configuration**: To ensure the React Native tools work smoothly, I configured the ANDROID\_HOME environment variable. First, I opened the Windows Control Panel then, under "User Accounts," I selected "Change my environment variables. I created a new user variable named ANDROID\_HOME and set its value to the path to my Android SDK C:\Users\ruthr\AppData\Local\Android\Sdk. I also add the **platform-tools path**, I added the platform-tools path to the system's Path variable: I selected the "Path" variable in the environment variables. I clicked "Edit" and added the path to platform-tools (default: C:\Users\ruthr\AppData\Local\Android\Sdk \platform-tools.

**Project Creation**

To start creating my new React Native Project I used the following command in the JavaScript bundler that comes with react Native npx react-native@latest init IncredibleToDoList

This is the most crucial and exciting part of the **running of the Application**. In a new terminal within my Project folder, I executed the following command to start my React Native application on an Android emulator: npm run android I made sure I had an Android Virtual Device (AVD) set up.

**Troubleshooting**

A screen shot of a phone

Description automatically generatedDuring my journey, I encountered a few issues. One of these is the Gradle. I did not install it ahead of time which is why during the running of the project it caused trouble and error. Whenever I faced challenges during setup or development, I referred to the official React Native Troubleshooting guide for solutions.

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**References**:

https://reactnative.dev/

https://developer.android.com/studio/run/emulator

https://reactnative.dev/docs/environment-setup

https://developer.android.com/studio/intro/update#sdk-manager

https://chocolatey.org/

https://gradle.org/install/#manually