**React Native App Setup**

**System requirements:**

Processor: AMD Ryzen 5825U

RAM: 16GB

OS: Windows 11 Home 22H2 22621.3007

**Installation Instructions:**

1. Download and install node.js
2. Download and install Android Studio, ensuring Android SDK, Android SDK Platform, and Android Virtual Device are included in the installation.
3. Open Android Studio and open the SDK Manager through the cog icon on the top right.
4. Click the arrow next to Android 13 (“Tiramisu) to expand the details.
5. Check the boxes for Android SDK Platform 33 and Google APIs Intel x86\_64 Atom System Image then click Apply to install the components.

**Configurations:**

1. Open the Windows Control Panel and navigate to User Accounts then User Accounts a second time.
2. Click Change my environment variables.
3. Click on New... and set the Variable name as ANDROID\_HOME and the Variable value field as %LOCALAPPDATA%\Android\Sdk then click Okay.
4. Double click on the Path variable under User variables
5. Click New and paste %LOCALAPPDATA%\Android\Sdk\platform-tools then click okay
6. Open powershell and paste **Get-ChildItem -Path Env:\ to verify the output list include ANDROID\_HOME**

**Project Creation:**

1. **Open the command prompt and navigate to the desired location to store the project**
2. **Run npx react-native@latest init [PROJECT NAME]**

**Running the project:**

1. **Open Android Studio**
2. **Open the Device Manager on the toolbar on the right side**
3. **Create a new virtual device of any type using the Android 13 Tiramisu system image**
4. **Open the command prompt**
5. **Navigate to your project folder and run the command npm start android**

**Troubleshooting:**

1. **Environment variables may not be saved unless the user clicks okay to close all the environment variable windows. See Resources 2. for more context.**

**Resources:**

1. **Official React Native setup guide:**

<https://reactnative.dev/docs/environment-setup?package-manager=npm&guide=native>

1. **Environment variable troubleshooting:**

<https://superuser.com/questions/1107605/windows-10-system-environment-variables-dont-stick>