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**Spinning Up A React Native App (on Android)**

*System Requirements*

OS: Windows 11

RAM: 8 GB minimum

Free Storage: 10 GB minimum

*Set Up Your Environment (Windows, target OS: Android)*

1. Download and install Node.js from their website
2. Download and install a JDK
3. Download and install Android Studio
4. Install the Android 14 (UpsideDownCake) SDK through the SDK Manager in Android Studio
   1. Select “More Actions” on the Projects page and select SDK Manager
   2. In the SDK Manager, select “SDK Platforms” and check the “Show Package Details” box
   3. Expand the entry titled “Android 14.0 (UpsideDownCake)” and check off
      1. Android SDK Platform 34
      2. Intel x86 Atom\_64 System Image and Google APIs Intel x86 Atom System Image
   4. Select “SDK Tools” and check the “Show Package Details” box
   5. Expand “Android SDK Build-Tools” and check “34.0.0”
   6. Click Apply
5. Open the control panel > User Accounts > User Accounts > Change my environment variables > New…
   1. Variable name “ANDROID\_HOME”
   2. Variable value points to path of the Android SDK folder
6. Open Windows PowerShell
   1. Paste **Get-ChildItem -Path Env:\**  into PowerShell
   2. Verify existence of “ANDROID\_HOME”
7. Reopen Open the control panel > User Accounts > User Accounts > Change my environment variables > Path > Edit > New
   1. Add path to platform-tools which is in the Android SDK folder
8. When your project is ready for testing, open the project on Android Studio and select **View > Tool Windows > Device Manager** and then **+ > Create Virtual Device**

*Creating a new application with React Native CLI*

1. Ensure that previous versions of react-native-cli by uninstalling through command prompt
2. Create a new project by pasting:
   1. npx @react-native-community/cli@latest init (yourProjectName)
   2. After running you will be prompted to install react native cli, enter “y” to agree.
3. Open your project in Android Studio and create a virtual device
4. Navigate to your project folder in command prompt and run “npm start”. This will run the Metro Bundler terminal
5. Open a new terminal in your project folder. Run “npm run android”.

*Resources*

<https://reactnative.dev/docs/set-up-your-environment>

<https://reactnative.dev/docs/getting-started-without-a-framework?package-manager=npm>

<https://stackoverflow.com/questions/78384724/react-native-error-java-io-uncheckedioexception-could-not-move-temporary-work>