Spinning Up React Native App

Documentation

**Prepared for**:

Southern Alberta Institute of Technology (SAIT) Software

Development Diploma Program

CPRG-303-A Mobile Application Development (Winter 2024)

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**System requirements**

**This system is running with the following specifications.**

* **Microsoft Window 11 Pro**
* **Ram Size: 16GB**
* **CPU: 11TH Gen Intel® Core™ I7-11957**

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**These specifications will help with the download and installation of all necessary files with no problem at all.**

**Installation/Configuration Instructions**

**The first thing you need is to download Node.js LTS version.**

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**Next, you need to head to** <https://developer.android.com/> **to Download Android Studio.**

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**After installing Android Studio, you want to add “Android\_Home” in your environment variables. To do that, follow these steps.**

* **Go to your Windows Control Panel.**
* **Click on user twice.**
* **Click on Change my environment variable.**
* **Now on Variable name, add Andriod\_Home and change the value to where your SDK is located.**

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**Project creation**

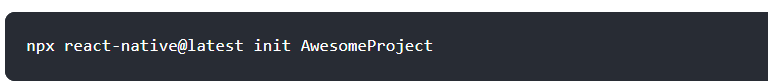
**To create a new project, you must create a folder outside of your OneDrive. So that it does not cause you any troubles later.**

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**This folder is in C: drive.**

**To the actual creation of the project, you must enter this code in the command line.**

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**After init, is what you will be naming your project. In this case, from** <https://reactnative.dev/>**, they named it awesome project. I have it named mine MyFirstApp.**

**Running the project**

**To Run the project, you must open Android Studio. Then head over to device manager. Click on create device, which is the one with the plus symbol.**

**A screenshot of a device manager

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**Pick whichever device you want to emulator. For this demo, we are going with the Pixel 7.**

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**Then click on R underneath the release name. The startup orientation size will be portrait. Click on next to download.**

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**To run the device, click on the green arrow and press “run”. Your device should be up and running.**

**Troubleshooting**

**You may run into some issues during the process of the setup. Which could look like this.**

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**To fix this head to your environment Variables page.**

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**You will need to delete any jdk files that from the path.**

**Then add Android Studio jdk. Copy the path from your program files then press ok.**

**Another error that can occur is.**

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**The way I fixed this was to go back to environment variables and in the environment, section delete Java\_Home environment variable.**

**A screenshot of a computer screen

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**This error can occur if the files for the project are created in a cloud drive. In this case, its was created in my one drive.**

**To fix this, you create a separated folder to store all your projects. Store it in your C drive. Once you try again this issue should not come again.**

**Resources**

**The links below provided me the solutions I need:**

* [Z Build Error Fix.mp4 (sharepoint.com)](https://mysait.sharepoint.com/sites/Winter2024MobileApplicationDevelopmentCPRG-303-A/_layouts/15/stream.aspx?id=%2Fsites%2FWinter2024MobileApplicationDevelopmentCPRG%2D303%2DA%2FShared%20Documents%2FResources%2FReact%20Native%20Setup%2FZ%20Build%20Error%20Fix%2Emp4&referrer=StreamWebApp%2EWeb&referrerScenario=AddressBarCopied%2Eview)
* **https://reactnative.dev/docs/environment-setup?guide=native**
* <https://stackoverflow.com/questions/25009717/android-studio-gradle-project-unable-to-start-the-daemon-process-initializatio>
* <https://www.youtube.com/watch?v=oiJ6hymb-Tc&ab_channel=H.Ali>