# Lab Assignment 1: Spinning Up React Native App Adam Sutherby

System requirements  
  
Device Specs:

Processor: Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz 3.19 GHz  
RAM: 16.0 GB  
System Type: 64-bit operating system, x64-based processor  
Windows Version: Windows 11 Home  
  
  
Installation instructions  
  
Before getting started you must Install a couple dependencies. These are:

* Node.js
* JDK
* The React Command Line Interface
* Android Studio

You are able to install both Node and JDK with the Chocolatey download manager. Using the following line in your terminal  
  
*choco install -y nodejs-lts microsoft-openjdk17*  
  
Android Studio can be downloaded at the following link <https://developer.android.com/studio/index.html>During the installation of Android Studio, be sure to check the following options

* Android SDK
* Android SDK Platform
* Android Virtual Device
* Performance (Intel ® HAXM) \**if you are not using Hyper-V*

When Android Studio is installed, access the more actions menu from the home menu and select SDK Manager. Enable the “Show Package Details” checkbox in the bottom right of the current window, and select “Android 13 (Tiramisu)” and underneath select ”Android SDK Platform 33” and “Intel x86 Atom\_64 System Image”. In the “SDK Tools” tab, check the “Show Package Details” checkbox and select “Android SDK Build-Tools" and the version 33.0.0 in the expanded menu. Select Apply to install these changes.

Configuration steps  
  
After install the changes, you need to configure the ANDROID\_HOME environment variable. By going into your Control Panel and going into your user settings, there will be the option “change my environment variables”. Within that option, create a variable called “ANDRIOD\_HOME” with the file path of your Android SDK.  
  
you can check if the environment is set up correct by using powershell and entering ‘Get-ChildItem -Path Env:\’ and looking for ANDROID\_HOME.  
  
back in the Change my environment variables window, add a path variable that goes towards your platform-tools.  
  
Project creation  
  
Using command prompt, navigate (or create) the directory you want you project to be in. When you have the directory chosen, type the line  
  
“npx react-native@latest init” followed by the name of your project.  
  
Running the project

After creating the project, use command prompt once again to navigate to said project. Simply typing “npm start” will launch the Android emulator and the project.  
  
Troubleshooting  
  
Confirm you have at least java 17 installed on your PC.

Resources  
  
<https://reactnative.dev/docs/environment-setup?guide=native>