# Spinning Up React Native App

## System Requirements

* CPU: x86\_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor Framework or Latest Intel Core
* RAM: 8gb memory or more
* Operating System: Windows, macOS or Any 64-bit Linux distribution that supports Gnome, KDE, or Unity DE; GNU C Library (glibc) 2.31 or later.

## Installation instructions

* VS code IDE for code editing from [Visual Studio Code - Code Editing. Redefined](https://code.visualstudio.com/)
* Download Node.js from [Node.js — Download (nodejs.org)](https://nodejs.org/en/download)
* Download Android Studio for emulating from [Download Android Studio & App Tools - Android Developers](https://developer.android.com/studio)

\*Make sure to download the proper version appropriate to your OS. \*

## Configuration steps

* Setting up Android Studio as well as setting up the emulation - [Android Studio Emulator - Expo Documentation](https://docs.expo.dev/workflow/android-studio-emulator/)

## Project creation

* In the Node.js command prompt, follow the steps in this page: [Setting up the development environment · React Native](https://reactnative.dev/docs/environment-setup?guide=native).)
  + Go to the directory where you want to save this project.
  + Run: **npx create-expo-app [app name]**
  + **Note: Run this command in the Node.js command prompt.**

## Running the project

* To run the app, change the directory to the project: **cd [app name]**
* Inside the directory, run: **npm start**
  + This will run your app in the expo go environment.
  + It will provide you with a QR code
    - iOs users can scan the code to run the app
    - Android users will have to download the Expo Go app in the App Store in order to scan the QR code.
* To run the app in the emulator:
  + Run the emulator first.
  + While the app is running in Expo Go, press **a** to run it in the emulator.
    - If it is the first time running, it will automatically download the Expo Go app.

## Troubleshooting

* If the app and the code is not synchronized properly, press **r** to reload the app.
* Pressing **a** in the Expo Go menu while there is no emulator running, it will give you an error message. **Make sure that your emulator is running first before trying to open the app in the android emulator.** The Expo Go menu will not be able to start the emulator automatically.

## Resources

If further information is required when trying to launch the emulator: [React Native Tutorial - 6 - Running App on Android Emulator (youtube.com)](https://www.youtube.com/watch?v=xKGESzemfdw)