**Setting Up React Native Development Environment**

**Chapter 1 - Installing Dependencies**

1. Navigate <https://reactnative.dev/docs/environment-setup?guide=native> page to start

2. Click “React Native CLI Quickstart” -> “Window” -> “Android”

3. If you don’t have node.js, you need to install it

Install Node.js

1. Navigate to [Node.js (nodejs.org)](https://nodejs.org/en), download LTS
2. Install Node.js in default settings

4. Navigate [Download Android Studio & App Tools - Android Developers](https://developer.android.com/studio?gclid=EAIaIQobChMIiK3Tj4D8gwMVPTStBh2K2QC2EAAYASAAEgLY5_D_BwE&gclsrc=aw.ds) and down Android Studio(about 1GB size)

Install Android Studio

1. Once you install Android Studio, you will be prompted to Setup Wizard
2. Choose Standard as type of setup
3. Choose UI Theme
4. Make sure following items are checked:

* Android SDK
* Android SDK Platform
* Android Virtual Device

(If Android SDK locations contain whitespace, change directory where is no whitespace)

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1. Follow setup wizard to download components
2. Open “SDK manager” under “More Actions”
3. Make sure red underline is selected
4. Under SDK Platforms

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1. Under SDK Tools

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1. Find “Edit Environment variables for your account” on your PC

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1. Click on “New…” to create ANDROID\_HOME user variables that points to the path to your Android SDK:

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1. Add platform-tools to Path
2. Click on “Edit…” on Environment Variables window

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1. Click on “New” and add path to platform-tools to the list

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**Chapter 2 – Creating a New Application**

1. Open cmd and change directory where you want to create a new React Native project
2. Create project named “AwesomeProject”



* If you see notice of your npm need to update, enter “npm I -g npm” to update

1. Open new project folder on VSC
2. Change app.tsx file to app.jsx, and delete red lines on the code.

**Chapter 3 – Virtual Device Setup**

1. Open Android Studio -> “More Actions” -> “Virtual Device Manager”
2. Choose a virtual device that you want to use
3. Choose “R” for system image, and download on your PC (take more than1GB space)
4. Click on play button to run virtual device



**Chapter 4 – Run React Native Application**

1. Click open icon on Android Studio, and open “android” folder in your project folder
2. Sandwich icon -> Build -> Make Project

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1. Sandwich icon -> Run -> Run ‘app’

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1. You will see error message: ‘Unable to load script’

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1. Open terminal inside your React Native project folder, and enter ‘npm run start‘
2. Press ‘r – reload the app’
3. Test virtual machine run project we created
4. Change content app.jsx on VSC and see if content is changed (save after changing content)
5. App.tsx is changed to App.jsx

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Note:

\* If you run into React native environment issues, ‘npx react-native doctor’ command may diagnose issues and fix automatically.