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***Mobile Application Development***

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1. **System Requirements:**

Windows Version: Windows 10 to the latest update

RAM: At least 8GB and 16GB

CPU: Intel Core i5 (7th Generation)

1. **Installation Instructions:**

React Native CLI:

* Install dependencies such as Node

Install Node via Chocolatey, a popular manager for Windows

* Run “npm install -g react-native-cli” in prompt

Android development Environment:

* Install Android Studio

Tick the boxes Android SDK, Android SDK Platform, Android Virtual Device

* Install Android SDK

Click on “More Actions” and select “SDK Manager”

* Configure the ANDROID\_HOME environment variable

Control Panel>User Accounts>Change environment variables>New

* Add platform-tools to Path

Windows control panel>User Accounts>Change environment variables>Path>Edit>New

1. **Configuration Steps:**

Android:

* In Android Studio, create a new project
* Go to Tools, AVD Manager and create new device
* Select a preferred device
* Download the system image and finish

Environment Variable:

* Open the windows control panel
* Click on User Accounts, then Click User Accounts again
* Click “Change my environment variables”
* Click New to create a new ANDROID HOME user variable that points to the path to your android SDK

1. **Project Creation**

* In creating a new React Native Project: In command prompt, run – “npx react-native init IncredibleTodoListApp”
* Change directory to your new project ‘cd IncredibleTodoListApp’

1. **Running the Project**

Android Studio

* Launch the emulator in Android studio
* In the project directory. Run ‘npx react -native run-android’

Expo Go:

* In VSCode, go to terminal and choose new then type ‘npm start’
* Go to your camera phone then focus it on the given QR

1. **Troubleshooting**

* You may check the error log for issues. Commonly it would be on the environment variables that we have configured or set.
* Port already in use, missing libraries for React, Shell command Unresponsive Exception are some of the other common errors. You may find specific resolution through github or StackOverflow.

1. **Resources**

React Native: I always watch the youtube channel of *Programmingwithmosh* for easy translation and detailed step-by-step procedure in my software development related questions. Also, I go to StackOverflow, for common questions or FAQ’s regarding a certain subject.