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**System requirements**

Here are the system requirements for the React native

**CPU**: 12th Gen Intel(R) Core (TM) i7-1255U @ 1.70 GHz

**RAM**: 16.0 GB (15.7 GB usable)

**Operating System**: Windows 11 Home, Version 22H2

This configuration should provide sufficient performance for React Native development. You can run Android and iOS emulators (via WSL for iOS), development environments, and other tools needed for React Native projects with ease if you have a strong CPU, lots of RAM, and Windows 11 Home.

**Installation instructions**

1. **install the Node.js**
2. visit Node.js Website
3. Download the LTS version
4. Select the NEXT through the prompts
5. After installation, verify Node.js and npm in command prompt and type

node -v

npm -v

1. **Install Java Development Kit (JDK)**

1.Download the JDK (Java Development Kit) from the official Oracle website.

2.Run the installer and follow the instructions.

3.Set up environment variables:

4.Go to Start and search for "Environment Variables."

5. set the JAVA \_HOME variable to the JDK installation directory.

1. **Install Android Studio**

1.Download and install Android Studio from the official website: Android Studio.

2.During installation, check the box to install Android SDK, Android SDK Platform, and Android Virtual Device (AVD).

1. **Install Reactive Native CLI**

1.After installing node.js and npm , you need to install the Reactive Native CLI.

2.Open command prompt and run this.

npm install -g react-native-cli

1. **Set up Android SDK**

Set up environment variables for the Android SDK

Set ANDROID\_HOME and edit the path with ‘platform tools’ and ‘emulator’.

1. **Verify Installion**
2. Open command prompt
3. To create a new React-Native Project, type ‘npx react-native init MyProject’
4. To go to project directory, type ‘cd MyProject’
5. To start the project, type ‘npx react-native run-android’

**Configuration steps:**   
  
1. Establish the Android SDK Path:

Verify that the Android SDK path is appropriately configured in the environment variables, as was previously indicated. This allows for the accessibility of the build tools needed for React Native.

**Creating the project:**  
  
 Create a New React Native Project   
  
1 Click on the prompt for commands.   
  
2. Click on the directory where you want your project to begin to be worked on.   
  
3. Run the following command to start a new project:    
  
npx react-native init IncredibleTodoListApp

**Running the project:**  
 Launch the Metro Bundler   
  
1. Access the project directory:   
  
2. Open the IncredibleTodoListApp.   
  
  
  
3. start the Metro bundler:   
npx react-native start

Use an Android Device Simulator to Run the App:   
  
1. Open a new Command Prompt window and navigate back to your project directory.   
  
2. To develop and execute the program on the Android emulator, type the following command into the terminal:    
npx react-native run-android   
  
Check if an Android Virtual Device (AVD) is functioning properly. In Android Studio, choose Tools > AVD Manager to open it.

**Troubleshooting:**   
  
Typical Problems:   
  
Not able to resolve package error: Make that all dependencies are installed correctly. Try again with npm install.   
  
ADB could not be located. Verify the environment variables you are using for the Android SDK.   
  
The emulator won't start: Make sure your computer's virtualization option is enabled in the BIOS.   
  
  
Debugging:  
  
See the Chrome Developer Tools for troubleshooting React Native applications. Shake your device or emulator to bring up the developer menu, then select "Debug JS Remotely".

**Resources**:

**React Native Official Documentation**

<https://www.bing.com/ck/a?!&&p=a49940d157697ec3JmltdHM9MTcyNzEzNjAwMCZpZ3VpZD0wOGI0YTk5MS00ZWQ1LTZhNzQtMzczMy1iYTE4NGY3ZjZiNzEmaW5zaWQ9NTI0NQ&ptn=3&ver=2&hsh=3&fclid=08b4a991-4ed5-6a74-3733-ba184f7f6b71&psq=React+Native+Documentation&u=a1aHR0cHM6Ly9yZWFjdG5hdGl2ZS5kZXYvZG9jcy9nZXR0aW5nLXN0YXJ0ZWQ&ntb=1>

**Stack Overflow for Community Support** <https://www.bing.com/ck/a?!&&p=4730fe4d8cb1553cJmltdHM9MTcyNzEzNjAwMCZpZ3VpZD0wOGI0YTk5MS00ZWQ1LTZhNzQtMzczMy1iYTE4NGY3ZjZiNzEmaW5zaWQ9NTIxNA&ptn=3&ver=2&hsh=3&fclid=08b4a991-4ed5-6a74-3733-ba184f7f6b71&psq=stack+overflow&u=a1aHR0cHM6Ly9zdGFja292ZXJmbG93LmNvbS8&ntb=1>

**Android Studio Documentation** <https://www.bing.com/ck/a?!&&p=4d8778c90d89007aJmltdHM9MTcyNzEzNjAwMCZpZ3VpZD0wOGI0YTk5MS00ZWQ1LTZhNzQtMzczMy1iYTE4NGY3ZjZiNzEmaW5zaWQ9NTcwMA&ptn=3&ver=2&hsh=3&fclid=08b4a991-4ed5-6a74-3733-ba184f7f6b71&psq=Android+Studio+Documentation&u=a1aHR0cHM6Ly9kZXZlbG9wZXIuYW5kcm9pZC5jb20vZ3VpZGUv&ntb=1>

**Node.js Documentation** <https://www.bing.com/ck/a?!&&p=4134a7be967df81eJmltdHM9MTcyNzEzNjAwMCZpZ3VpZD0wOGI0YTk5MS00ZWQ1LTZhNzQtMzczMy1iYTE4NGY3ZjZiNzEmaW5zaWQ9NTIxMg&ptn=3&ver=2&hsh=3&fclid=08b4a991-4ed5-6a74-3733-ba184f7f6b71&psq=Node.js+Documentation&u=a1aHR0cHM6Ly9ub2RlanMub3JnL2VuL2RvY3M&ntb=1>