Setup Instructions

# System Requirements(Minimum)

CPU: intel core i5/ Ryzen 5000

RAM: 8GB

System: Windows 10 or later

# Installing, Setup and Launching the application

**Step1:** Download and install nodejs by visiting <https://nodejs.org/en>

**Step2:** Do a version check by performing the following command(s) in a terminal

>**node -v**

>**npm -v**

A screenshot of a computer

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Figure 1: Versions  
Source: Primary

Step3: Perform the following commands in the terminal

>**npm install expo-cli-global** or **install –global expo-cli**

Step4: Change the directory of the terminal to the desired folder using **cd** command

>**cd[***location***]**

Step5: Run the following command to create a new project

>**npx create-expo-app [***project name***]**

**Example:**

**npx create-expo-app Incredible\_Todo\_list\_App**



Figure 2: Create app command  
Source: Primary

You’ll receive a message like the following at the end:

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Description automatically generated

Figure 3: Project Ready  
Source: Primary

Step6: Again, change the directory of the terminal using cd command:

>**cd [***project name***]**

**Example**

**cd Incredible\_Todo\_list\_App**

Step7: Write the following command to navigate to VSCode

>**Code . walkthrough://vscode\_getting\_started\_page**

Step8: Go back to the terminal and write the following command to start the application.

>**npx expo start** or **npm start**

(Note: After the above step you have two options to either run the app locally on the machine or run it on An Android or IOS device. To continue on Android/IOS device skip to **Step14**.)

Step9: To Run the app on Android Studio you need to download and install it from <https://developer.android.com/studio>. After Successful installation of Android Studio, you’ll have a welcome screen similar to Figure 4.

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Figure 4: Android Studio  
Source: Primary

Step10. Click on **More Actions**>**Virtual Device manager**>**Create Device**. You’ll see a pop-up similar to Figure 5. Configure your device with the settings shown in Figure 5.

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Figure 5: Configurations  
Source: Primary

Step11: Select the version to pie and download it by Accepting all the terms and conditions.

Step12: After complete installation of the device hit **run** or

Step13: Once the Virtual Device is up and running. Open VSCode and press **a** in terminal and the app will start in the virtual device.

Step14: To use the app in Android/IOS install the Expo Go from Playstore/AppStore.

Step15: Open the camera app of the phone and scan the QR code displayed in the terminal of VSCode.

# Troubleshooting

During the setup, you may encounter some errors. To deal with those errors following are some troubleshooting practices:

**Slow Installation:** If the installation process is taking longer than expected, ensure you have a stable internet connection, and the Node.js download server is not experiencing issues.

**Version Mismatch:** Ensure that the versions of Node.js and npm you installed match the recommended versions. You can check this using the **node -v** and **npm -v** commands.

**Installation Errors:** If you encounter errors during the installation of Node.js or npm, check the error messages for specific guidance. Common issues include permissions errors or conflicts with existing software.

**Project Name:** Make sure that the project name you provide when creating a new Expo project (npx create-expo-app [project name]) does not contain spaces or special characters, and it follows naming conventions.

**Dependency Errors:** If you encounter errors related to dependencies when creating a new project, try running npm install within your project directory to install any missing dependencies.

**Environment Variables:** If you face issues running the application, double-check that your system environment variables are correctly configured, especially if you're using Windows.

**Firewall or Antivirus:** Sometimes, firewall or antivirus software can block network requests necessary for the application to run. Ensure that your security software is not interfering with the development server.

**Virtual Device Issues:** If the Android emulator fails to start or run the Expo app, check the Android Studio's virtual device manager for any error messages or issues with the virtual device setup. Ensure that hardware acceleration (HAXM) is enabled in your BIOS settings.

**Expo Go Installation:** If you're running the app on a physical Android or iOS device, ensure that Expo Go is installed from the respective app stores.

**Network Connectivity:** Both your computer and physical device need to be on the same Wi-Fi network for the QR code to work. Ensure that your Wi-Fi connection is stable.

**Logs and Error Messages:** Pay attention to any error messages or logs that appear in your terminal, as they often provide specific information about the issue you're facing. Google the error message for solutions.

**Community Forums:** If you're unable to resolve an issue, consider visiting the Expo community forums or GitHub repository to see if others have encountered and solved similar problems.

**Expo Documentation:** For troubleshooting instructions and updates, always consult the official Expo documentation mentioned in the Resource section.

# Resources

All the Documentation was done with the help of [https://reactnative.dev/docs/environment-setup?guide=native](https://reactnative.dev/docs/environment-setup?guide=native%20) [1]

Some community forums are <https://stackoverflow.com/> and <https://www.quora.com/>

Some other help can be found on <https://google.com/>, <https://youtube.com/> and <https://chat.openai.com/>

References:

[1] “Setting up the development environment.” React Native. Accessed: Abbreviated Sep 30, 2023. [Online]. Available: [https://reactnative.dev/docs/environment-setup?guide=native](https://reactnative.dev/docs/environment-setup?guide=native).).