**Lab 1**

**Guidelines**

**System requirements**

CPU: 12th Gen Intel(R) Core(TM) i9-12900H

RAM Size: 32.0 GB

Windows Version: Windows 11 Home

**Installation Instructions**

**1.Node.js Installation**

* First we Download and start the installation process for Node.js from the node.js website. - <https://nodejs.org/en>
* Then After Installation for confirmation we run node –v, and npm –v in the command prompt (cmd).

**2. Expo Go Installation**

* Then we install Expo CLI using the command line by running npm install –g expo-cli this command.
* Afterward, we install Expo Go on Mobile phone from the Google Play Store.

**Configuration Steps**

**Node.js:** To Check that You have the latest version of Node.js use the command node -v in the command line.

**Expo CLI:** Then to install Expo CLI type the command npm install -g expo-ci

**Development Environment:** Ensure a reliable internet connection and utilize a development environment such as Visual Studio Code for an effective workflow.

**Project Creation**

1. Now using Expo Create a new project by using - npx create-expo-app IncredibleTodoListApp

**To Start Project**

1. Now Start the project with command - npx expo start
2. Connect the phone and computer to the same wireless network.
3. Now the QR code that is displayed on the command line using the Expo Go app on mobile phone scan the QR code.

**Troubleshooting**

**1. Dependencies and Node.js Version:**

Ensure that Node.js is installed correctly, and the version is compatible with Expo.

**2. Firewall/Antivirus:**

Firewalls or antivirus programs may block the Expo development server. Adjust your settings or temporarily disable these tools to see if they are causing the issue.

**3. Error Messages:**

Pay attention to error messages in the terminal and Expo Go. They often provide valuable information about what went wrong.

Search online for specific error messages to find solutions or ask for help in relevant forums.

**4.** **Network Issues:**

If you face network-related problems While connecting your phone using expo go make sure that your device with the command line and mobile phone are on the same Wi-Fi network.

**5. Dependency Conflicts:**

Conflicts happen when npm packages need incompatible versions of shared dependencies. Resolve by using npm audit to detect issues, update packages, and employ npm ci for consistent management.

**Resources**

**1. Node.js Official Document:** <https://nodejs.org/en/learn/getting-started/how-to-install-nodejs>

**2. React Native official Document:** https://reactnative.dev/docs/environment-setup?guide=native).