**Lab Assignment 1: Spinning Up React Native App**

1. **System requirements**: Document specifications of the system being used for React Native development. This includes the CPU, RAM size, and Windows version.
   * 1. Specification of the system (CPU, RAM size, Windows version): Windows version 10.0.16299.0 or higher and at least 5 GB of space available.
2. **Installation instructions**: Include step-by-step instructions for installing the necessary tools and dependencies required for the framework, such as Node.js, and the React Native CLI.
   * 1. Node.js Installation:
        1. Navigate to nodejs.org.
        2. Select the LTS version of the installer.
        3. Accept the terms of service agreement..
        4. Leave all options as their default.
        5. Wait for the download to complete and hit finish.
     2. JDK:
        1. Downloaded within React Native, JDK does not need to be downloaded separately.
     3. Android Studio:
        1. Navigate to <https://developer.android.com/studio/index.html>.
        2. Click Download Android Studio Giraffe.
        3. Open the exe file.
        4. Leave Android Studio and Android Virtual Device selected.
        5. Leave installation location as default.
        6. Click next on the rest of the steps to complete.
        7. Wait for the download to complete and hit finish.
     4. React Native CLI:
3. **Configuration steps**: Detail any necessary configuration steps required to set up the framework, such as setting environment variables or configuring project settings.
   * 1. Android SDK
        1. After downloading Android Studios, pick the standard option.
        2. Ensure Android SDK, Android SDK Platform, and Android Virtual Device are selected.
        3. Select desired download location.
        4. Accept all user license agreements.
        5. Continue to download and click finish when it is complete.
     2. ANDROID\_HOME
        1. Navigate to the Windows Control Panel.
        2. Open settings.
        3. Click on User Accounts twice or search for Environment variables.
        4. Create new environment variable using the name ANDROID\_HOME.
        5. Ensure the file path matches the file path of the downloaded Android SDK.
        6. Go to the Path user variable.
        7. Click edit.
        8. Click New.
        9. Add platform path to Android SDK platform tools.
4. **Project creation**: Outline the steps involved in creating a new project using the framework, including any necessary setup or configuration.

**Command Line**:

* + 1. Create a folder for project workspace.
    2. Open command line and change directory to desired folder ‘cd “filepath”’.
    3. If react native has been installed before, paste ‘npm uninstall -g react-native-cli @react-native-community/cli’ into the command line.
    4. Copy and paste ‘npx react-native@latest init projectName’ where projectName is the name of your project.
    5. When prompted, enter ‘y’ into the command line.
    6. Wait for download.

1. **Running the project**: Detail how to run the project in an Android Device Simulator.

Android Studio:

* + 1. After download is complete, open the android folder from the project in android studio.
    2. Click ‘Build’.
    3. Click ‘Make Project’.
    4. Wait for completion.
    5. Once build has completed, click ‘Run’.
    6. Click ‘Run ‘app’’.

Command Line:

* + 1. Navigate to the project folder directory.
    2. Enter ‘npm start’.
    3. When prompted, enter ‘r’.
    4. Wait for reboot to complete.

1. **Troubleshooting**: Include information on how to troubleshoot common issues that may arise during setup or development, such as debugging and error messages. This may need to be updated in the future.
   * 1. Execution failed for task ':app:installDebug'. – Create a new app project to ensure a clean install of all necessary functions.
2. **Resources**: Provide links to additional resources and documentation that can be used for reference and further learning, such as official documentation, tutorials, and Stack Overflow answers.
   * 1. <https://stackoverflow.com/questions/37500205/react-native-appinstalldebug-failed>
     2. <https://github.com/npm/npm/issues/6755>