

Lab Assignment 1: Spinning Up React Native App

System Requirements

- CPU: 2.0 GHz dual-core processor or better
- RAM: 4 GB or higher
- Operating System: Windows 7 or newer (64-bit)
- Disk Space: 2 GB of free space

Installation Instructions

Install the following tools and dependencies for React Native development:

Node.js: React Native requires Node.js. Download and install it from <https://nodejs.org/>.
Recommended to use the LTS version.

Java Development Kit (JDK): Install JDK 8 or newer from <https://www.oracle.com/java/technologies/javase-downloads.html>.

Android Studio: Download and install Android Studio from <https://developer.android.com/studio>.

React Native CLI: Install the React Native CLI globally by running the following command in your terminal: `npm install -g react-native-cli`

Configuration Steps

Environment Variables:

- Open System Properties > Advanced > Environment Variables.
- Add a new system variable named `ANDROID_HOME` and set it to the path of your Android SDK installation (e.g.,
`C:\Users\<your-username>\AppData\Local\Android\Sdk`).

Project Creation

Open the terminal and navigate to the directory where you want to create your project. Run the following command to create a new React Native project (replace `<project-name>` with your desired project name): `npx react-native init <project-name>`

Running the Project

To run your React Native project on an Android Device Simulator:

Open a terminal in your project directory.

Start the Metro development server by running the following command:

```
npx react-native start
```

It should give the option to run android simulator by pressing 'a'

This will build your React Native app and launch it in the Android Device Simulator.

Troubleshooting

- **Debugging:** To debug your React Native app, you can use tools like React Native Debugger or enable debugging in your emulator. You can also use the `console.log()` function to log messages for debugging purposes.
- **Common Issues:** If you encounter common issues or error messages during development, refer to the [React Native Troubleshooting guide](#).