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

**Guidelines**

## **System requirements**

* CPU :- AMD Ryzen 5 4600H with Radeon Graphics 3.00 GHz
* RAM:- 24.0 GB (23.4 GB usable)
* Windows Version: Windows 11 Home 23H2

# **Installation Instructions**

Follow 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. Install Node.js

Download and install the LTS version of Node.js from the above site <https://nodejs.org/>.

1. Install React Native CLI

Open command prompt and run the following command to install React Native CLI:

npm install -g react-native-cli

1. **Install Android Studio:-**

* Download Android Studio HedgeHog From Above link: [**https://developer.android.com/studio**](https://developer.android.com/studio)
* Install Android SDK And follow the setup instructions

# Configuration Steps

1. Open your device setting and search for Edit Environment variable.
2. In environment Variable click on new and add ADDROID\_HOME And Add the path for Your Android SDK Folder For Example:- c:\androidSDK
3. Next click on “Path” Variable and click edit and add path for your android SDK platform-tools . C:\androidSDK\platform-tools.

# Project Creation

Create new React Native project:

Open command prompt from the folder where you want to save your project and write the following command to create your New project: npx react-native init (Add your project name).

# Running the Project

1. Start Android Studio And open “Android” Folder in your project.
2. Now Start your Virtual device (Google Pixel 7) which you add while your setup or add new virtual device.
3. Now run project in your Android Studio using run command
4. Now open command prompt from your project folder and run this command: npm run start.
5. And then select android device by entering “a” or “r” to reload the project.

# Troubleshooting:

1. Environment Variables: Make sure all environment variables are correct, especially the ones related to Android SDK. Verify that the paths are set up correctly.
2. Observe the error message that appears when your program shows a red screen. It often provides information on the kind and location of the error.
3. A missed import statement or missing dependencies may be the cause of the error "Unable to resolve module". Make sure you run npm install and double-check your imports to ensure that all dependencies are installed.
4. Error: “Unexpected token “Verify the syntax at the specified line number. Verify that the syntax of your JavaScript code is correct.
5. TypeError: An error happens when a variable or property is used without authorization. Look at the code around the specified line number.
6. See the official React Native documentation at for the most recent details and troubleshooting guidance.

# Resources

Refer the following resources for further learning:

* React Native Official Documentation:-

[Setting up the development environment · React Native](https://reactnative.dev/docs/environment-setup)

* Stack Overflow- React Native Questions.