Lab Assignment 1: Spinning Up React Native App

1. **System requirements:**

CPU - AMD Ryzen 5 2600X Six-Core Processor 3.60 GHz

Ram – 16.0 GB

Windows – Windows 10 Pro

1. **Installation instructions**:

-Go to the react native website and make sure to click on react native quick start

-Install Node.js if needed

-Downloaded link provided from android studio, then opened file

- Allowed it to make changes to device

- Went through set up wizard

- I was not able to choose my modes and was not able to set up any components

- I finished the setup and let it make changes to the command prompt

- The android API was not there under SDK platforms, the only one that was similar was Android 14.0 with a API level of 34.

- Added a new environment variables called android home

- Edited environment variables with %LOCALAPPDATA%\Android\Sdk\platform-tools

- Added environment variable

- Made a new folder for React projects

- Opened cmd prompt and entered npx react-native@latest init

- Opened project in visual studio

- Changed App.tsx to App jsx and deleted code to eliminate errors

1. **Configuration steps**:

- Added a new environment variables called android home

- Edited environment variables with %LOCALAPPDATA%\Android\Sdk\platform-tools

- Added environment variable

1. **Project creation**:

-Opened cmd prompt and entered npx react-native@latest init

- Opened project in visual studio

- Changed App.tsx to App jsx and deleted code to eliminate errors

1. **Running the project**:

**Making the simulator:**

- Create a virtual screen image

- First open Android studio

- Go to More actions and virtual device manager

- Click create device, then there will be a list of devices

- Make sure it is a phone device. Then click next

- Pick the image you want on the device, first download the device

- Choose R and click the download button beside it (Should look like an arrow pointing down)

- When finished, go next and put in portrait mode and leave the rest, then finish

- Start device by hitting play

- Allow access from the firewall

- Wait for phone to load

**Running the project:**

- Open Android studio

- Open file or project and choose from where the project was created

- Choose the android folder from the project

- Press Ok

- Wait for project to load (Could take a while)

- It will ask to upgrade project, do not do this

- Ignore that it says indexing

- Next from android studio, click build, make project

- This could also take a while

- If you click on build you can see it building the app

- Run the app, this will open it in the android emulator

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1. **Troubleshooting**: If you are running into problems double check the instructions first and double check you have done them all correctly, if that doesn’t work then clearly identify your problem. Once identified there are tons of YouTube videos and blogs with people showing how to fix the problem because more often than not, someone has had the same problem at one time or another.
2. **Resources**:

- <https://android-developers.googleblog.com/2018/07/android-emulator-amd-processor-hyper-v.html>