



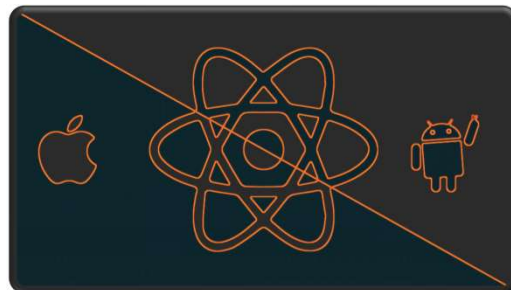
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React Native

Crash Course

PART-2



Software Installation for React Native CLI



1. NodeJS 12 or above version

- ✓ <https://nodejs.org/en/download>

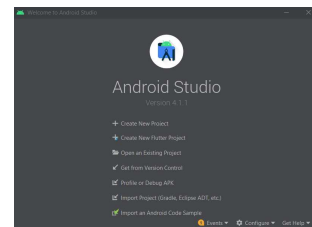
2. JDK 8 or above version

- ✓ <https://www.oracle.com/java/technologies/downloads>

3. Android Studio

- ✓ <https://developer.android.com/studio>

- ✓ Reference: <https://www.developers-zone.com/start-react-native-without-expo>



Software Installation for React Native CLI

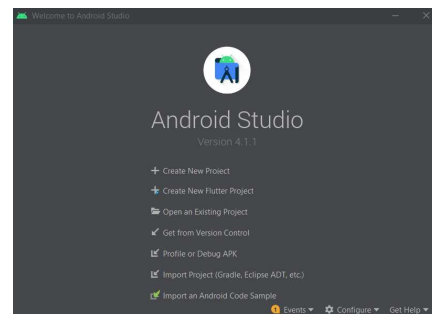


4. Configure Environment Variables and Path:

- ✓ **JAVA_HOME** - C:\Program Files\Java\jdk-11.0.11
- ✓ **ANDROID_HOME** - C:\Users\VenkateshMogili\AppData\Local\Android\Sdk
- ✓ **PATH Settings** - C:\Users\VenkateshMogili\AppData\Local\Android\Sdk\platform-tools

5. Configure Android Studio:

- ✓ **SDK Manager** -> Install Android Version
- ✓ **AVD Manager** -> Create Virtual Device





Environment Setup With React Native CLI



1. Install React Native Package:

➤ `npm install -g react-native-cli`

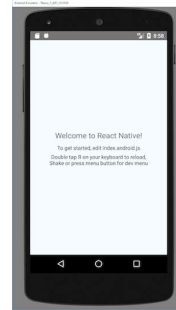
2. Create Project:

➤ `react-native init ProjectName` OR `npx react-native init ProjectName`

3. Run the app:

➤ `cd ProjectName`

➤ `npm run android` OR `npm run ios`

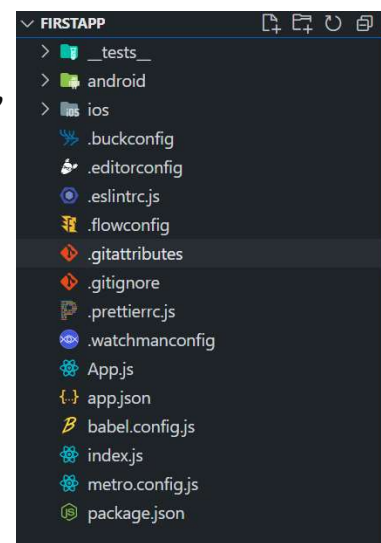


Folder Structure



➤ React Native Project Folder Structure:

- 1) **package.json** is the project entry file to save node modules, project name etc.,
- 2) **index.js** is the main entry file, **App.js** file is the main UI component.
- 3) **app.json** file used for app config etc.,
- 4) **node_modules** stores all the node modules
- 5) **android, ios** folders contains respective files to build apps.
- 6) **__tests__** used for unit testing.





Logging, Debugging In Chrome

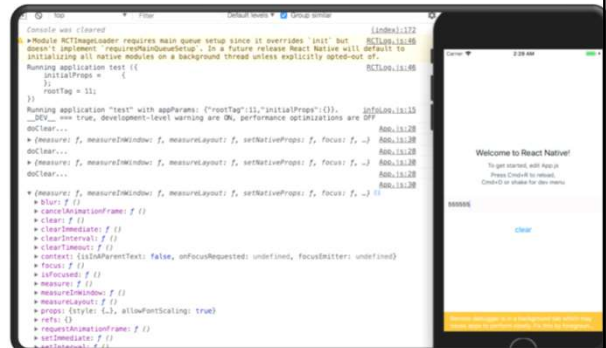


➤ Logging:

- ✓ You can log in VS Code Integrated Terminal.

➤ Debugging In Chrome:

- ✓ You can also log in chrome to debug.



APK Build & Expo Publishing



✓ Expo:

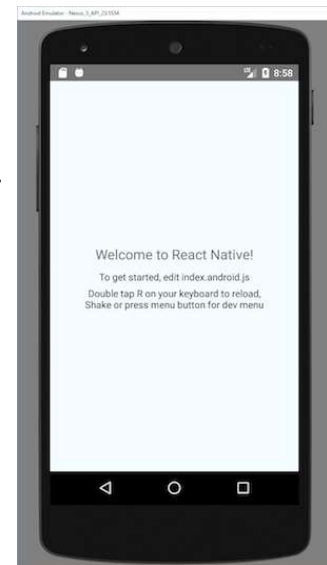
- Create Account in Expo (<https://expo.dev>)
- Click on Publish and Provide Name, It automatically creates your app in Expo Platform, you can share the QR code to share the App with anyone.

➤ OR

- expo prebuild
- androidapp.apk

➤ Expo & React Native:

- cd android && gradlew assembleRelease
- APK Path: android/app/build/outputs/apk/release/app-release.apk



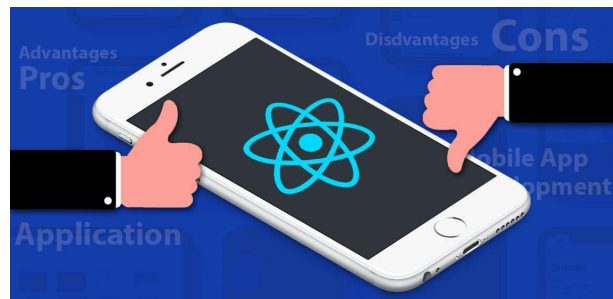


Disadvantages Of React Native



➤ **Disadvantages:**

- ✓ Immaturity – it takes time to get more standard.
- ✓ Medium Learning Curve.
- ✓ Longer Initialization Time – using react native cli.
- ✓ Low Security.



Advantages Of React Native



➤ **Advantages:**

- ✓ Community Support
- ✓ Optimal Performance
- ✓ Code Reusability
- ✓ Live and Hot Reloading
- ✓ Cost-Effective Solution
- ✓ More Job Opportunities





Summary



- ✓ Introduction to React Native
- ✓ Single Codebase
- ✓ Software Requirements
- ✓ Expo vs React Native CLI
- ✓ Environment Setup with Expo
- ✓ Environment Setup with React Native
- ✓ Folder Structure
- ✓ Logging, Debugging in Chrome
- ✓ APK Build & Expo Publishing
- ✓ Advantages and Disadvantages

Thank You



VWatch



IMplement



Try Experiments



VM Online Training