



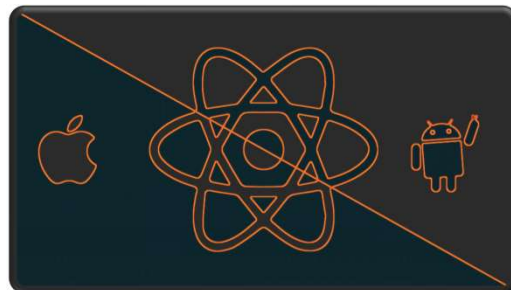
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# React Native

## Crash Course

PART-1



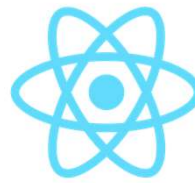
## Prerequisites



- ✓ You should have complete idea on JavaScript and Basic idea on React like Components, State, Props, JSX concepts.
- ✓ If you are complete beginner to web development, then no prerequisites required, you can slowly understand by practicing.



JavaScript



React

<https://vmtraining.netlify.app>



## Contents



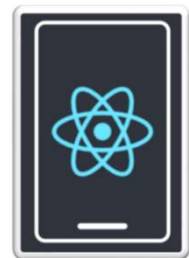
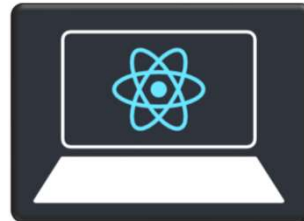
- Introduction to React Native
- Single Codebase
- Software Requirements
- Expo vs React Native CLI
- Environment Setup with Expo
- Environment Setup with React Native
- Folder Structure
- Logging, Debugging in Chrome
- APK Build & Expo Publishing
- Advantages and Disadvantages



# Introduction to React Native



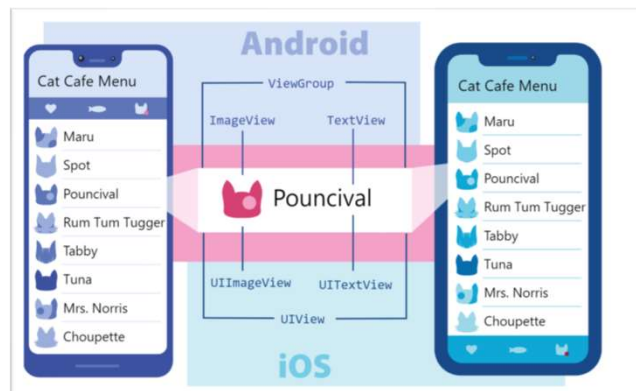
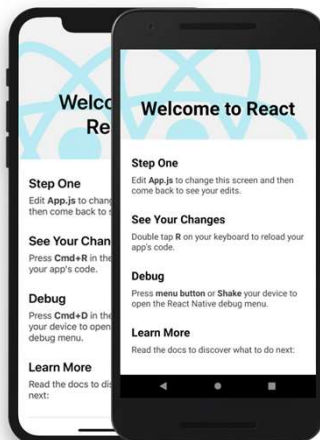
- React Native is an **open source framework** that enables **cross-platform mobile application** building using **JavaScript and React** developed by **Facebook** and other developers to **build user interfaces**.
- React Native uses JSX to create native apps for **Android and iOS**.
- It is a cross platform compatible framework that means you can develop one app for any platform like windows, android, iOS and web.
- It is released in Jan 2015.
- Documentation: <https://reactnative.dev>



## Single Codebase



- React Native – “Learn Once, Write Anywhere”.
- You can use the single code for multiple platforms with no changes or with slight changes.



## Software Requirements

- It supports in all operating systems Windows, Mac, Linux.
- NodeJS Latest version is required.

### ➤ Windows

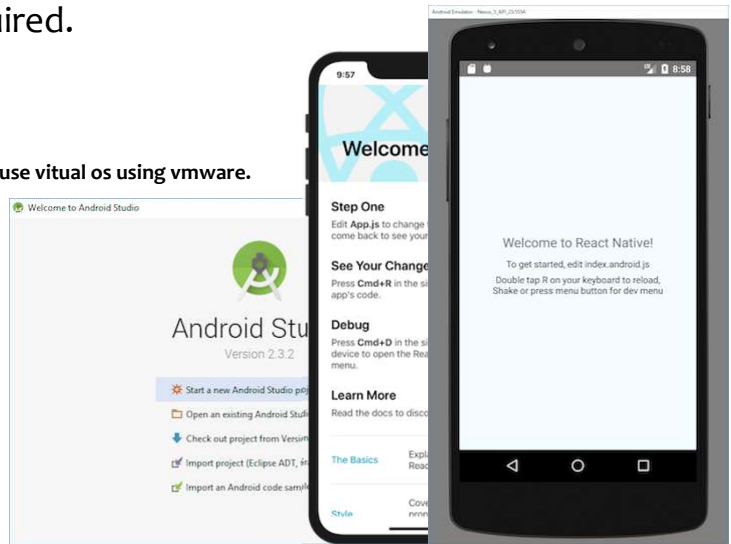
- 4GB/8GB RAM required
- Android Studio need to be installed.
- Android App only can be tested unless we use virtual os using vmware.

### ➤ Mac

- 4GB/8GB RAM required
- Android Studio, Xcode need to be installed.
- Android and iOS both apps can be tested.

### ➤ Linux

- 4GB/8GB RAM required
- Android Studio need to be installed.
- Android apps only can be tested.



## Expo vs React Native CLI

- We have two ways to develop react native apps.
- ✓ 1.Expo
- ✓ 2.React Native CLI
- 1. Expo and React Native both are command line interface libraries.
- 2. You can use Expo, If you are a complete beginner. It takes only few minutes.
- 3. You can use React Native CLI, If you are already installed Android Studio / Xcode etc., which takes few hours to setup.





## Environment Setup With Expo



### 1. Install Expo CLI:

➤ `npm install -g expo-cli` OR `yarn global add expo-cli`

### 2. Create Project:

➤ `expo init ProjectName`

### 3. Run the app:

➤ `cd ProjectName && npm start` OR `expo start`

### 4. Choose platform (a-Android, i-iOS, w-Web etc.,)

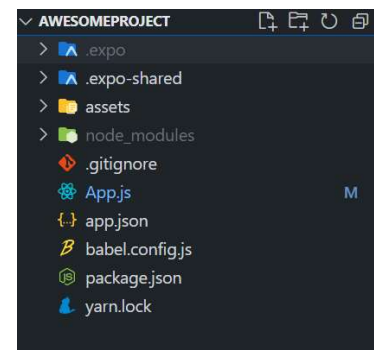


## Folder Structure



### ➤ Expo Project Folder Structure:

- 1) **package.json** is the project entry file to save node modules, project name etc.,
- 2) **App.js** is the main entry file.
- 3) **app.json** file used for app splash screen config etc.,
- 4) **node\_modules** stores all the node modules
- 5) **assets** can be used to store the images, files etc.,
- 6) **.expo** and **.expo-shared** are related to expo configuration.





## Logging, Debugging In Chrome

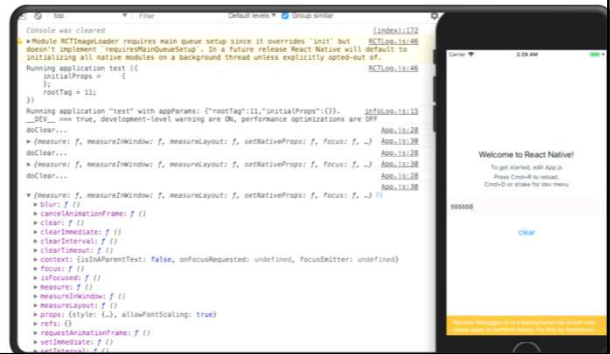


### ➤ Logging:

- ✓ You can log in VS Code Integrated Terminal.

### ➤ Debugging In Chrome:

- ✓ You can also log in chrome to debug.



## Advantages and Limitations Of Expo CLI



### ➤ Advantages:

- ✓ You don't have to touch native code.
- ✓ Easy to start react native project with Expo.
- ✓ It will be very helpful for quick learning.

### ➤ Limitations:

- ✓ Not all iOS and Android APIs are available yet.
- ✓ The SDK doesn't support all types of background code execution.
- ✓ App size high comparing with native app size.
- ✓ Native notifications service won't work.



Thank You



Watch



Implement



Try Experiments



VM Online Training