

React Fundamentals

What is React Native

React Native is an open-source framework created by Facebook. It is used to develop applications for Android, Android TV, iOS, macOS, tvOS, Web. Since it uses the same code for creating REACT Native iOS or the ReactNative Android apps and web applications, you just need to know the HTML, CSS and the JavaScript.

Components

A component is a very basic element in react-native we can divide the large application into many small Components. This makes development fast and maintains the code very clear to understand.

Examples:

- View
- State
- props
- Style
- Flex layout
- ScrollView
- etc

Javascript

JavaScript is an object-based scripting language which is lightweight and cross platform and JavaScript follows the syntax and structure of the C programming language.

TypeScript

JavaScript is developed and maintained by Microsoft. It is a strict syntactical superset of JavaScript and adds optional static typing to the language. TypeScript is designed for the development of large applications and trans compiles to JavaScript.

JSX

JSX stands for JavaScript XML. With React, it's an extension for XML-like code for elements and components. It is faster than normal JavaScript as it performs optimizations while translating to regular JavaScript.

State and Props

There are two types of data which control a component. They are state and props. The state is mutable. It means a state can change the value at any time. The variable data are stored in state. Initialize the state in a constructor and change the value by calling the function 'setState' when you want. The second data type is props. It is immutable. It can be used to pass the data to the different components. It makes a connection between Container Component and Presentation Component