**JAVASCRIPT WEEK 9 SUMMARY**

**React Native**

React Native is an open-source framework for building mobile applications using JavaScript and React, a popular JavaScript library for building user interfaces. Developed by Facebook, React Native allows developers to create native mobile apps for multiple platforms, such as iOS, Android, and even web applications, all while using a single codebase. Key features and concepts of React Native include:

* Cross-Platform Development - React Native enables developers to write a single codebase that can run on multiple platforms, saving time and effort compared to developing separate apps for iOS and Android.
* Native-Like User Interfaces – React Native components map to native UI elements, providing a native look and feel to the user interface. This results in a more responsive and performant app.
* JavaScript and React - Developers use JavaScript and the React library to build mobile applications. React's component-based architecture is applied to mobile development, making it easy to create reusable UI components.
* Hot Reloading - React Native supports hot reloading, allowing developers to see the effects of code changes in real-time without the need to rebuild the entire app. This speeds up the development and testing process.
* Third-party libraries - React Native has a rich ecosystem of third-party libraries and components available through npm (Node Package Manager). Developers can easily integrate these libraries into their apps to add various features.
* Access to Native Modules - While most of the app logic is written in JavaScript, React Native provides access to native modules when necessary. This means that developers can use native code (Objective-C, Java) for specific tasks, like interfacing with device hardware or APIs.
* Community and Ecosystem - React Native has a large and active developer community, which contributes to the framework's growth, stability, and the availability of helpful resources and libraries.
* Performance Optimization - React Native optimizes performance by using a JavaScript runtime and a bridge to connect JavaScript with native code. This makes it possible to achieve near-native performance for most use cases.
* Debugging Tools - React Native includes debugging tools that allow developers to identify and resolve issues in their apps more easily.