

Building React Native Apps

Overview

Intro

How RN works

Packager role

Debugging

Layout & Style

Platform module

Pros and cons

Apps built with RN

Useful resources

React Native

- Framework which helps you build mobile apps using JavaScript
- It uses the same architecture as React
- JSX syntax
- Developed by Facebook

“LEARN ONCE, WRITE
ANYWHERE”



How RN works

JS core

Bridge

Native core



Packager role

Local development server

Bundle file (index.bundle)

Based on Platform, it returns js files

Debugging

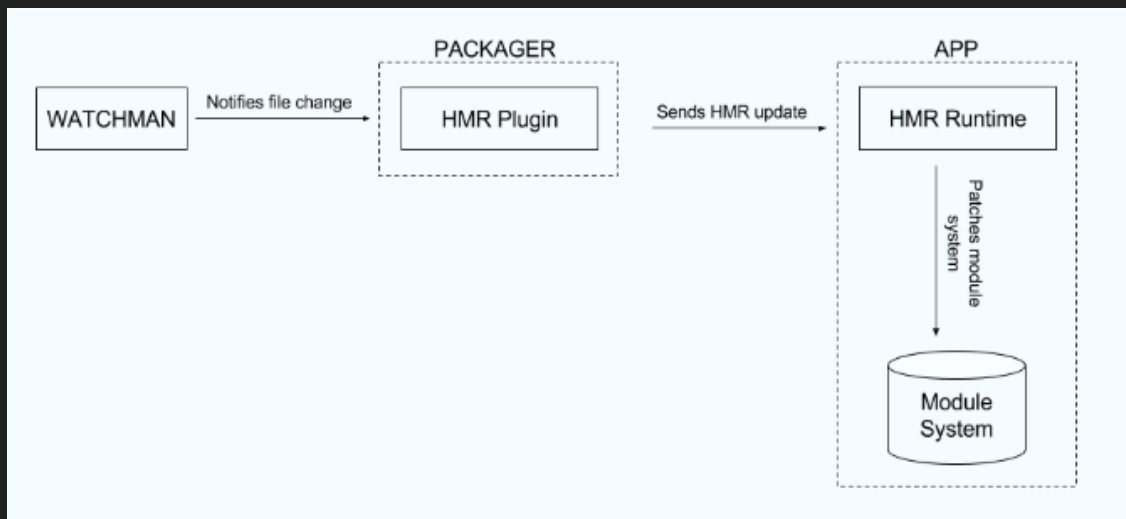
Developer Menu ➡ Reload

➡ Enable Hot Reloading (Automatic reloading)



Hot Reloading

- Keeps the app running
- Reload the app without losing the app's state
- Based on Hot Module Replacement (HRM)



Layout & Style

Layout - Flexbox

Style - CSS (like CSS for the web, except that names are written using camel case)

CSS properties :

- [View](#)
- [Image](#)
- [Text](#)
- [Flex](#)

Platform module

Detects the platform in which the app is running

Detects the Android Platform in which the app is running

Used to implement separate components for iOS and Android

Platform.OS

- iOS
- Android

Pros and Cons

Pros

- Strong React Native community

- Debugging without project rebuild

- Cross-platform

- For better performance it is possible to directly access API platform (Native Modules).

Cons

- Very few information on internet about React Native

Apps built with RN

- Instagram
- Discord
- Facebook Ads Manager
- Cleverwash
- Bloomberg
- Airbnb
- Bancomap

Useful resources

[React Native official website](#)

[React Native github](#)

[Learning React Native, O'REILLY](#)

[React Native Playground](#)

[JS.COACH](#)

Let's start build RN apps

