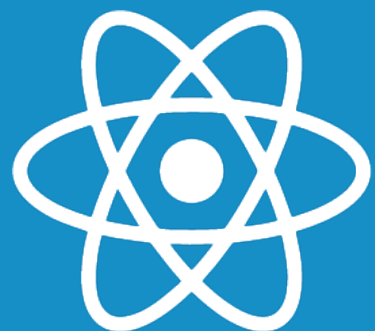


Advanced Mobile App Development



FLUTTER
REACT NATIVE

PHẠM HOÀNG HẢI



phhai@fit.hcmus.edu.vn



hcmus-se.slack.com

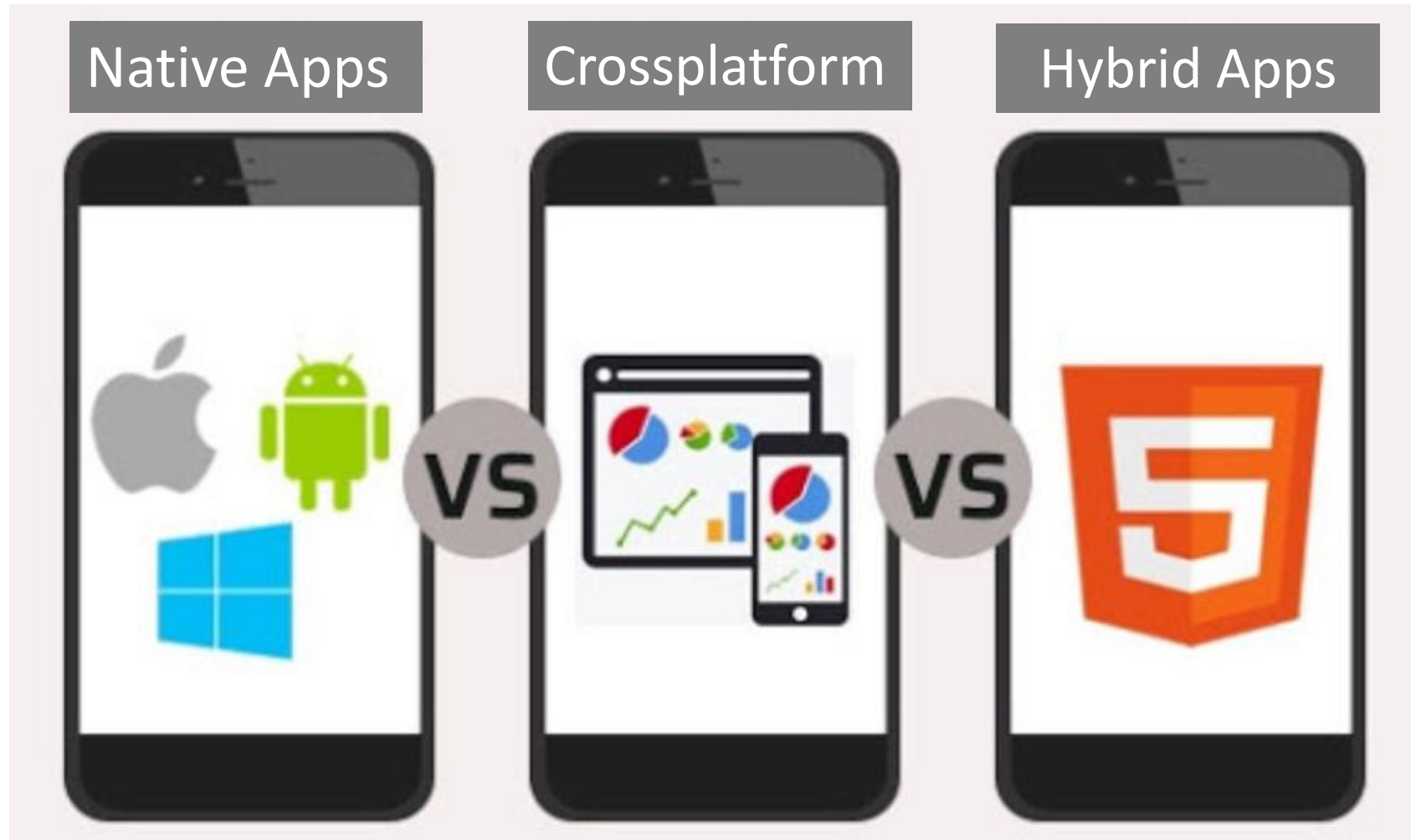


bit.ly/2RksFkW

Working Environment

- ❑ **Slack/Email** are used to ask/discuss throughout the course
 - hcmus-se.slack.com
 - phhai@fit.hcmus.edu.vn
- ❑ **Zoom/Google Meet** are used for online learning
- ❑ **Youtube** is used to upload Slide and Video lesson
 - bit.ly/2RksFkW
- ❑ **GIT** is used to store source code of individual and group assignments.
 - Students will receive a score of 0 if they do not work with GIT in this course.

Native <> Cross Platform <> Hybrid



PROS <> CONS ?

Welcome This Course

□ What do you study from this course?

Modern Javascript (ES6/ES7) vs JSX

ES6
{:}

React Native from Basic to Advance



Modern Dart Language

{:}

Flutter from Basic to Advance



Flutter/React Native Basic to Advance

Components/Widgets, Styling and Layout

State Management and MobX/Redux

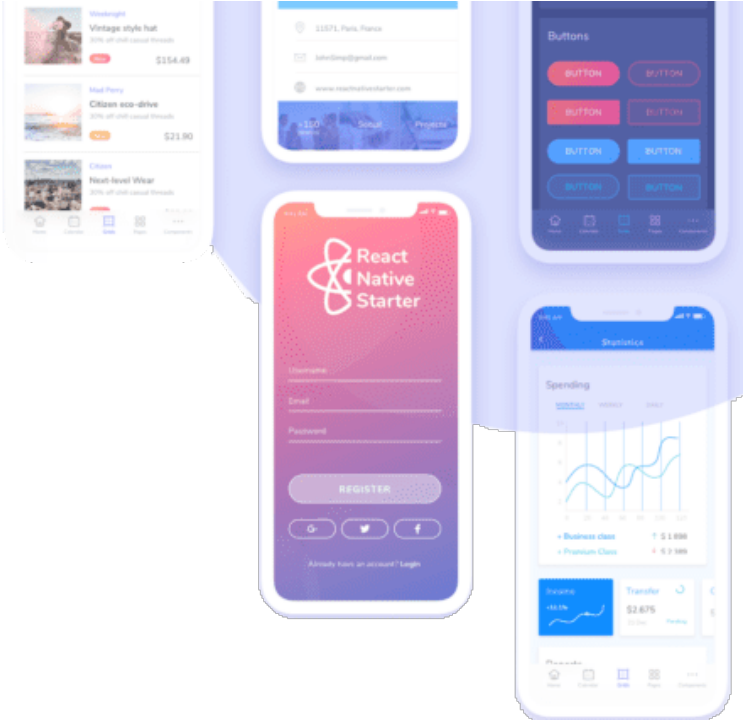
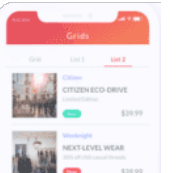
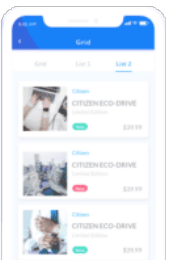
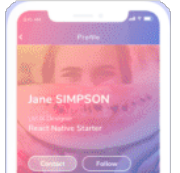
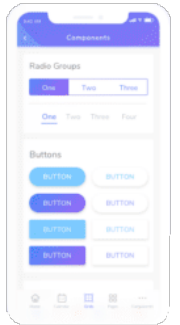
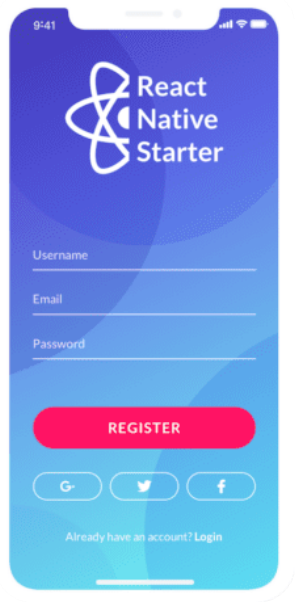
Debugging & Developer Tools

Http Request & Back-end (DIO/Axios)

Using Camera/Video Component/Conference

Using Location & Map

...



Welcome This Course

□ What do you study from this course?

Dart language/Modern Javascript
(ES6/ES7) vs JSX

ES6
{:}

Flutter/React Native from Basic to
Advance



Implement an Entire App



Publish App to Store/Marketing/Sale



Who teaches this courses?

□ Teacher

- Phạm Hoàng Hải (phhai@fit.hcmus.edu.vn)

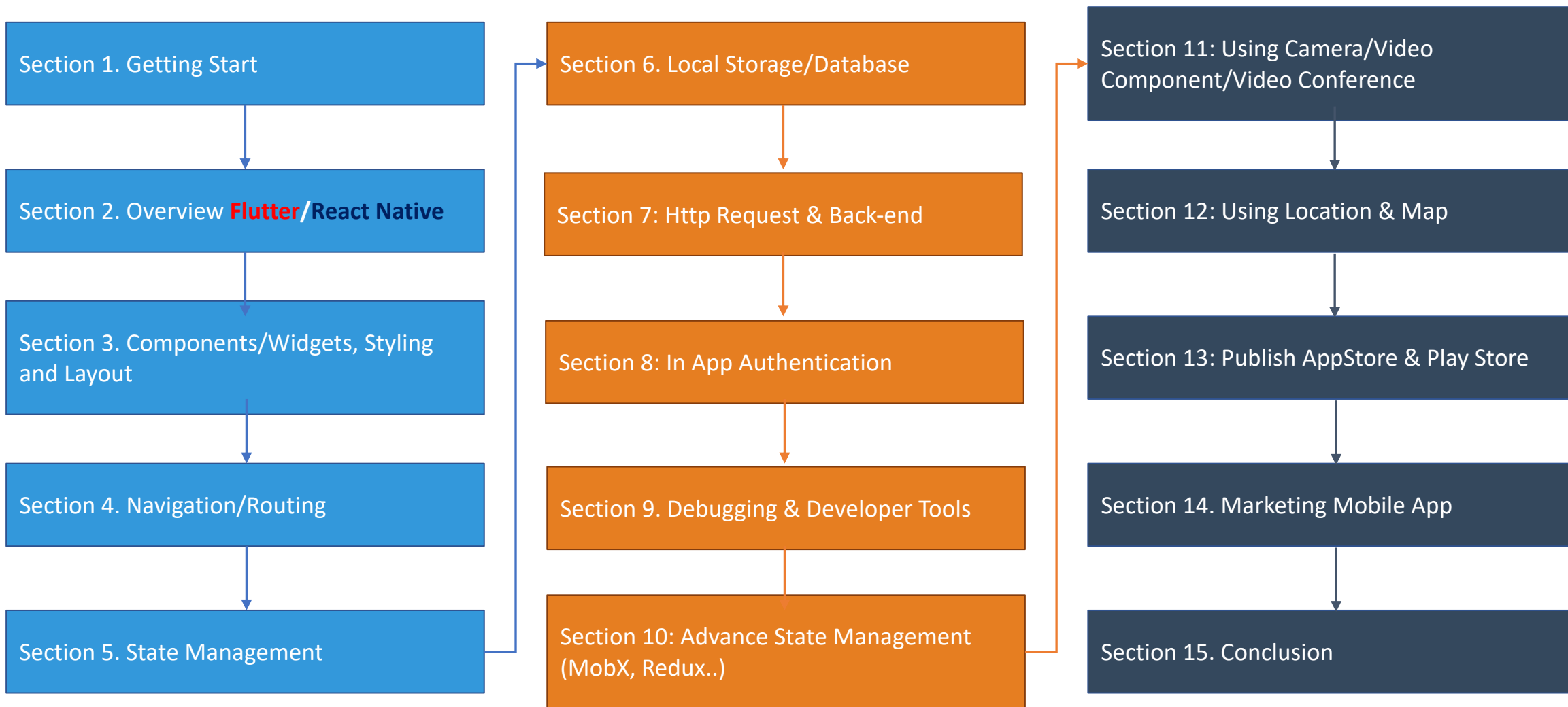
Course Requirement & Evaluation

- ❑ Each student has 3 assignments
 - Two small individual assignments (**MUST USE FLUTTER**)
 - TODO list
 - **2 scores**
 - One big individual project (**CAN USE FLUTTER OR REACT NATIVE**)
 - Implement **1-on-1 Learning** (<https://lettutor.com>) in 4 milestones
 - Individual Project:
https://docs.google.com/spreadsheets/d/1zd0wyO_VjZUqmA66bOX2InzmehaV2qusrQpp-Ws_Rh0/edit?usp=sharing
 - **6 scores**
 - Research topic (working in group/maximum 3 members)
 - **Flutter/React Native** libraries
 - Research topic project:
https://docs.google.com/spreadsheets/d/1zd0wyO_VjZUqmA66bOX2InzmehaV2qusrQpp-Ws_Rh0/edit?usp=sharing
 - **2 scores**
 - Bonus scores (class activities)

Individual Project - Milestone

- ❑ Milestone 1: (Weeks 5-6)
 - Mockup UI
- ❑ Milestone 2: (Weeks 7-8-9)
 - Offline – basic features
- ❑ Milestone 3: (Weeks 10-11-12-13)
 - Online – basic features
- ❑ Milestone 4: (Weeks 14-15)
 - Advances features

Course Overview



What is React Native?

React.js

A javascript Library for building
User Interface

Tool for building web app with
UI Components

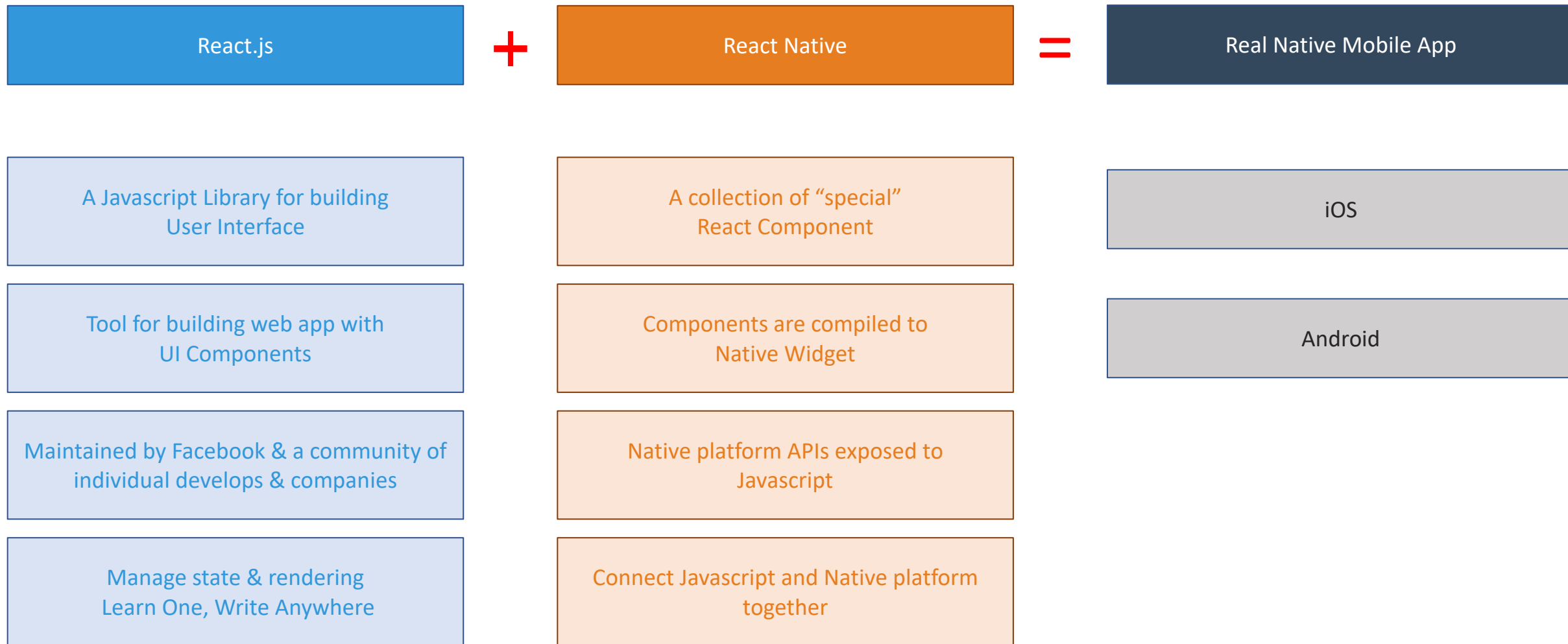
Maintained by Facebook & a community of
individual developers & companies

Learn One, Write Anywhere

<https://reactjs.org/>

```
<html>
<head>
  <meta charset="utf-8">
  <title>Hello world</title>
  <!-- Script tags including React -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/react/15.3.1/react.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/react/15.3.1/react-dom.min.js"></script>
  <script src="https://unpkg.com/babel-standalone@6/babel.min.js"></script>
</head>
<body>
  <div id="app"></div>
  <script type="text/babel">
    ReactDOM.render(
      <h1>Hello world</h1>,
      document.querySelector('#app')
    );
  </script>
</body>
</html>
```

What is React Native?



What is Flutter?

<https://flutter.dev/>

Made by Google

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for **mobile**, **web**, **desktop**, and **embedded** devices from a single codebase.

Question?

