

→ Introduction to React Native

HANDS ON YOUR FIRST REACT NATIVE APP

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DEVELOPER ADVOCATE

Agenda

INTRODUCTION TO REACT NATIVE CLASS

- Prerequisites and class materials
- What is React Native?
- Building a weather app using React Native
 - "Create React Native App" tool
- Creating custom components, displaying scrollable content, making network requests, and navigating between screens



Prerequisites

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- Node 6 or newer
- Install the Expo app on your device: <https://expo.io/>
- Connect both your laptop and device to the "FBOpenSource" WiFi network (required!)

NETWORK: FBOpenSource

PASSWORD: opensource

Class Materials

- Go to <https://github.com/hramos/ReactNativeClass>
- Everything covered today is listed in the README

NETWORK: FBOpenSource **PASSWORD:** opensource **INSTALL:** Expo app from <https://expo.io>

Four blue arrows are positioned at the corners of the slide, pointing towards the center. One arrow is in the top-left corner, one in the top-right, one in the bottom-left, and one in the bottom-right.

What is React Native?

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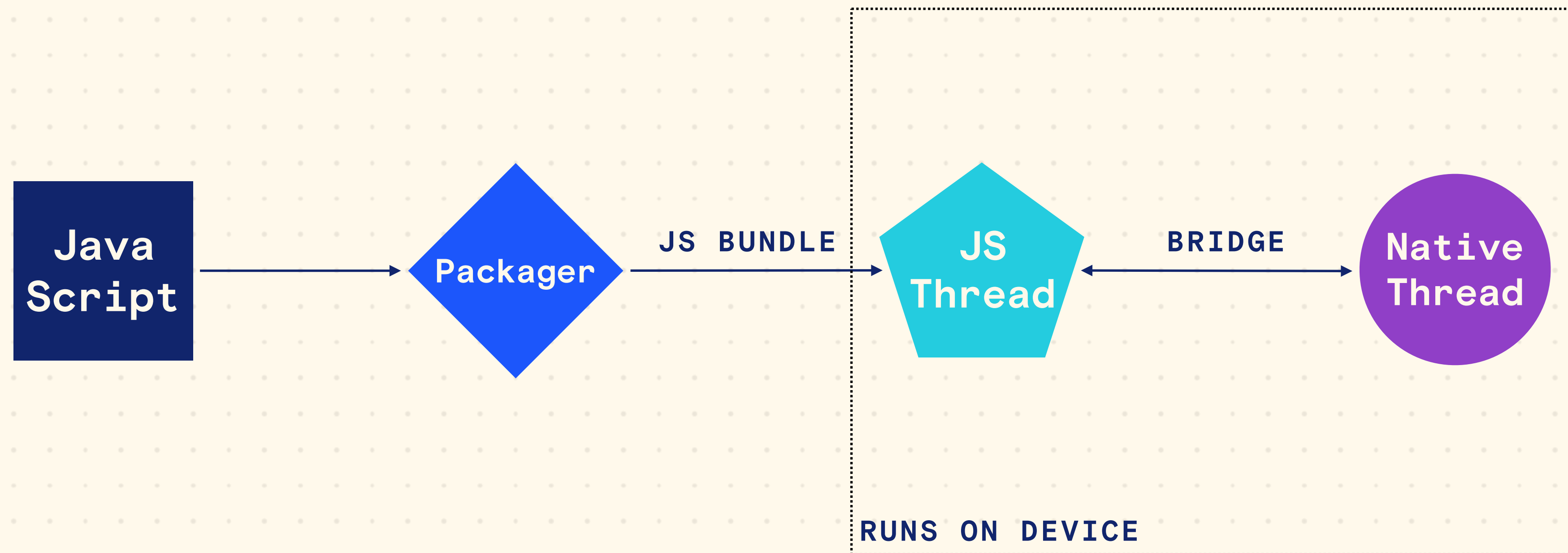
LEARN ONCE, WRITE ANYWHERE

- Build native mobile apps using JavaScript and React
- A React Native app is a real mobile app
- Don't waste time recompiling
- Use native code when you need to

NETWORK: FBOpenSource **PASSWORD:** opensource **REPO:** github.com/hramos/ReactNativeClass

What is React Native?

HOW IT WORKS



NETWORK: FBOpenSource **PASSWORD:** opensource **REPO:** github.com/hramos/ReactNativeClass











Building an app using React Native

Building a Simple Weather App

The weather app will consist of two screens

- The first screen displays a list of cities, with basic weather information.
- The second screen will display detailed weather data, such as humidity, wind speed, min/max temperatures for the day.

Weather		
	San Jose Clear	55.62 °F >
	New York Clouds	52.2 °F >
	City of London Rain	49.39 °F >
	Paris Clear	44.6 °F >
	Hong Kong Clouds	75.47 °F >
	Singapore Clouds	85.03 °F >
	Beijing Clear	80.6 °F >
	City of Sydney Clouds	69.8 °F >

Step 1: Install "Create React Native App"

```
npm install -g create-react-native-app
```

NETWORK: FBOpenSource **PASSWORD:** opensource **REPO:** github.com/hramos/ReactNativeClass

Step 2: Create a new React Native app

```
npm install -g create-react-native-app
```

```
create-react-native-app MyWeatherApp
```

NETWORK: FBOpenSource **PASSWORD:** opensource **REPO:** github.com/hramos/ReactNativeClass

Step 3: Run your app on a device

```
npm install -g create-react-native-app
```

```
create-react-native-app MyWeatherApp
```

```
cd MyWeatherApp
```

```
npm start
```

Scan the QR code using the Expo app on your phone.

NETWORK: FBOpenSource **PASSWORD:** opensource **REPO:** github.com/hramos/ReactNativeClass

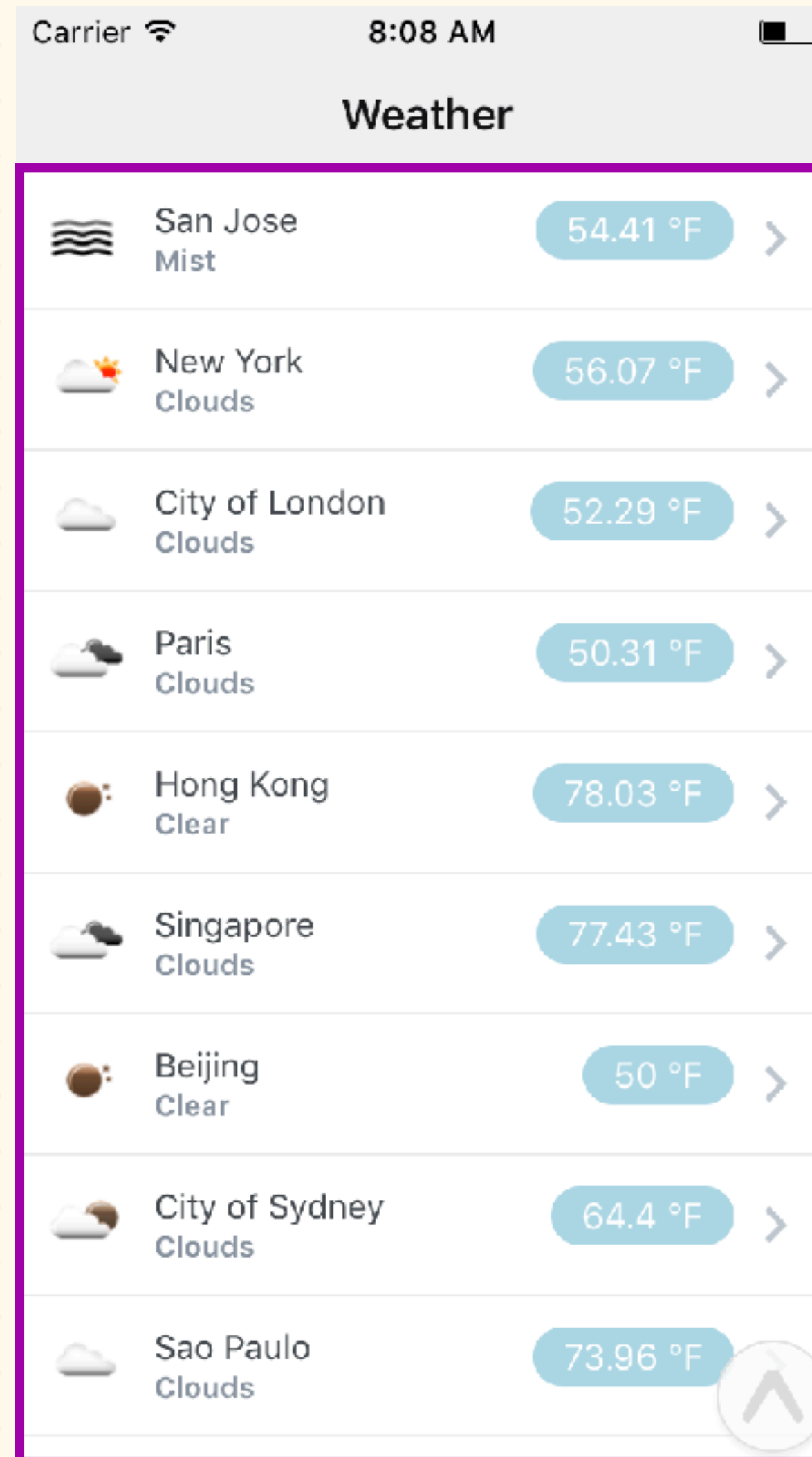


Live Demo

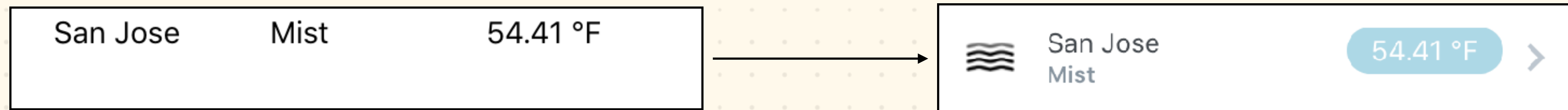
Components

BREAK DOWN YOUR UI

- List of cities
 - City weather
 - City name
 - Weather
 - Temperature



Installing packages from npm

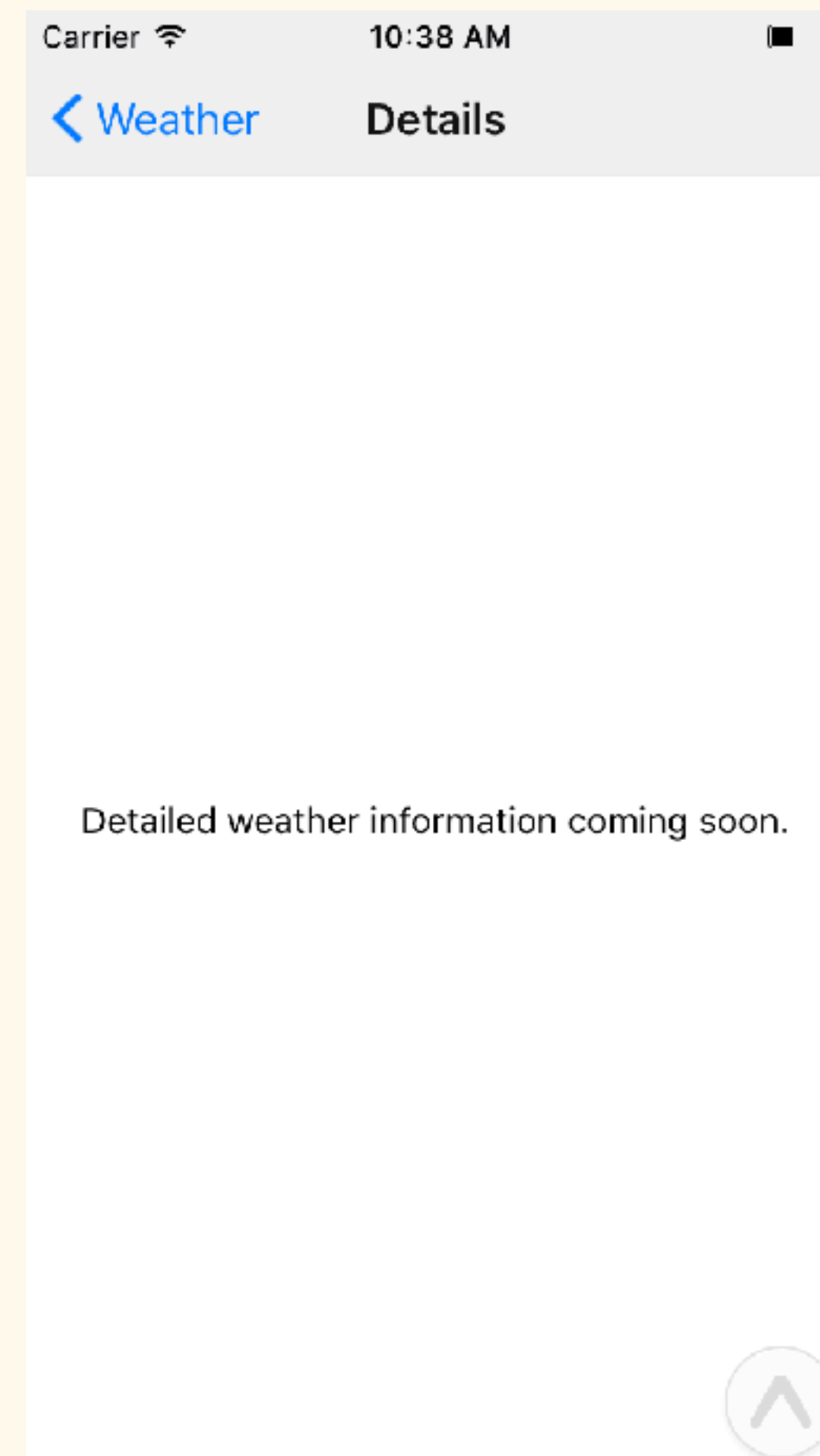
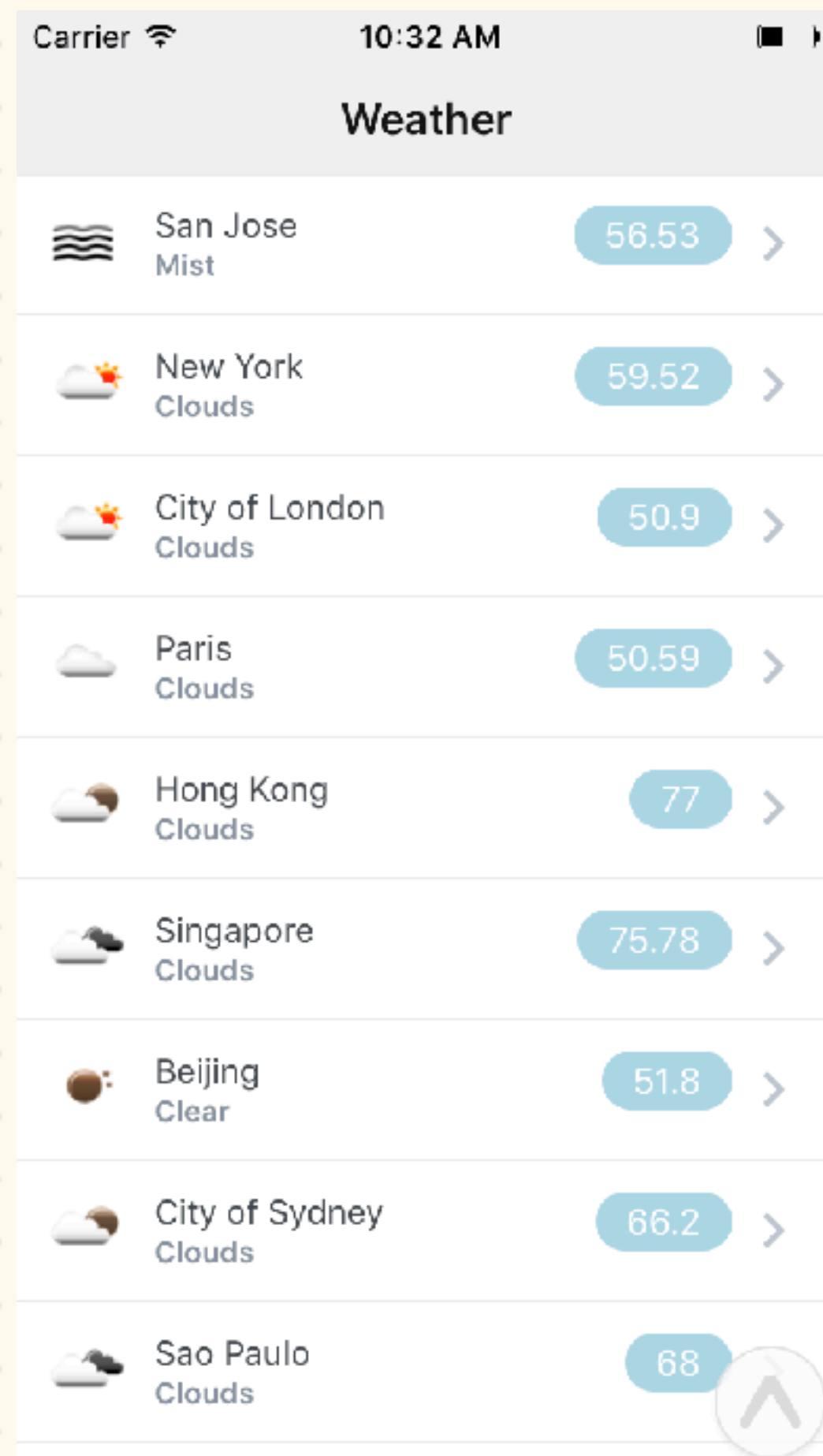


LISTITEM FROM REACT-NATIVE-ELEMENTS

```
npm install --save react-native-elements
```

Navigation

`npm install --save react-navigation`



React Navigation

```
import { StackNavigator } from 'react-navigation';
```

```
// ...
```

```
const MainNavigator = StackNavigator({  
  Master: { screen: MasterScreen },  
  Detail: { screen: DetailScreen }  
});
```

React Navigation

```
navigation.navigate( 'SCREEN_NAME', { params } )
```

Recap

- Create React Native App
- Live reload, no compiling required
- Creating custom components
- Displaying scrolling content
- Fetching data from the network
- Navigating between screens



Q&A

20 **F8** 17



The diagram features a dark blue background with a fine grid of lighter blue dots. Eight blue arrows originate from the corners and point towards a central white box with rounded corners. The box contains the text 'F8' in bold. To the left of the box is the number '20' and to the right is the number '17', both in white. The arrows are arranged symmetrically, with four pointing from the top and four from the bottom.