

→ 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?

What is React Native?

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











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 >



Create React Native App

Step 1: Install "Create React Native App"

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

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

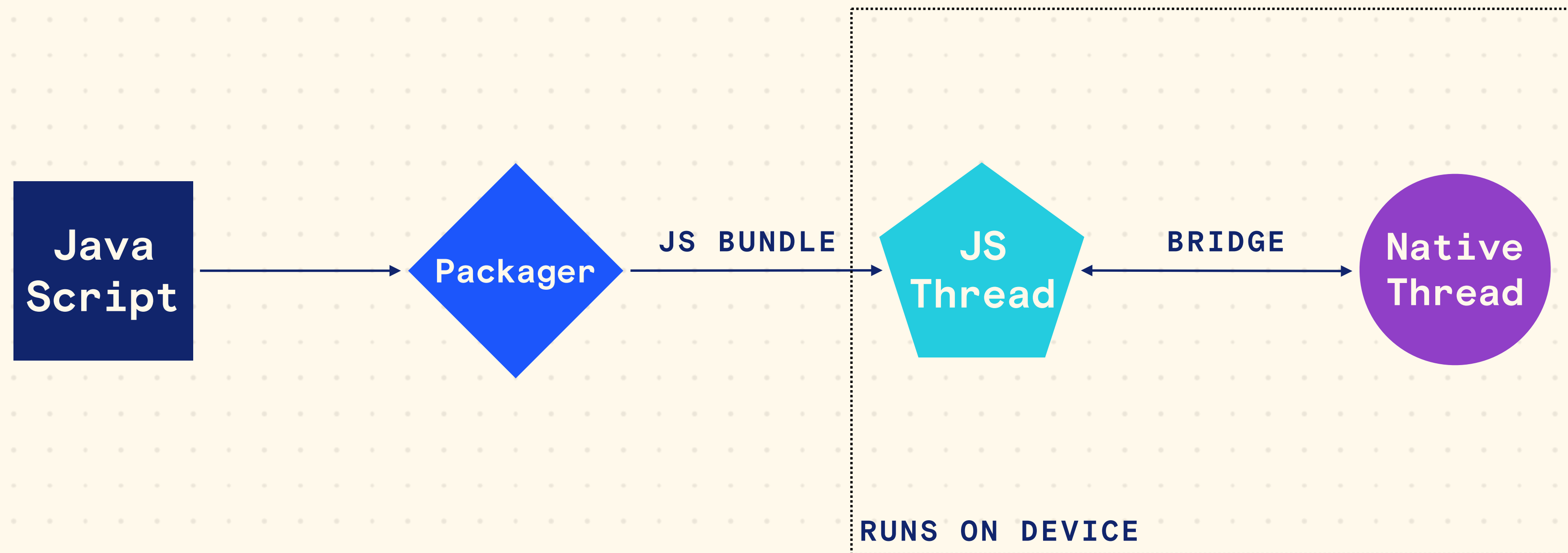
Step 2: Create a new React Native app

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

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

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

How React Native works



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

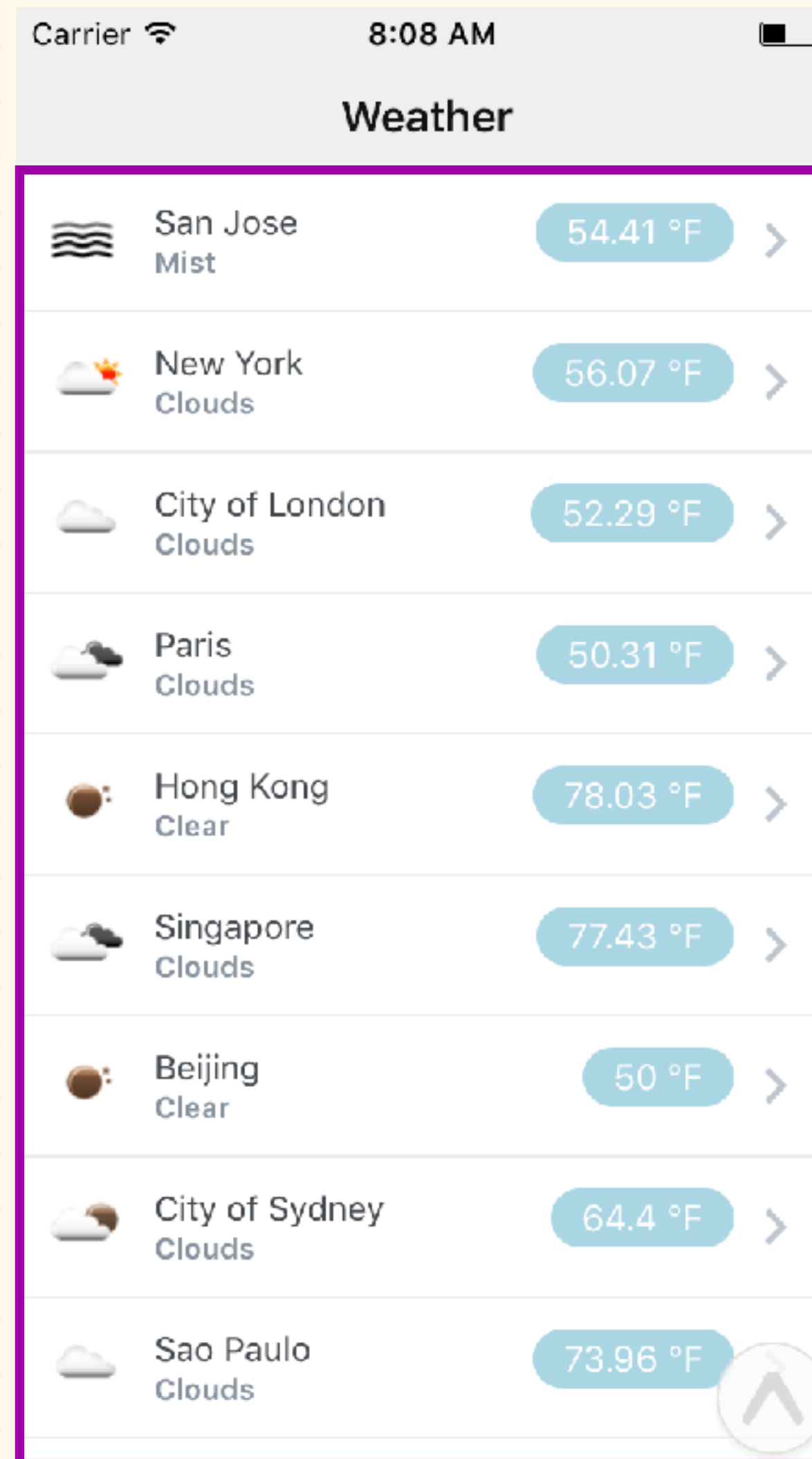


Live Demo

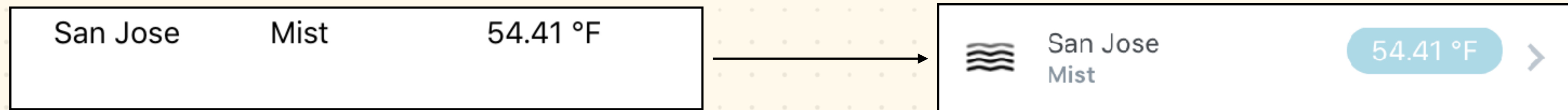
Components

BREAK DOWN YOUR UI

- List of cities
 - City name
 - Weather
 - Temperature



Installing packages from npm

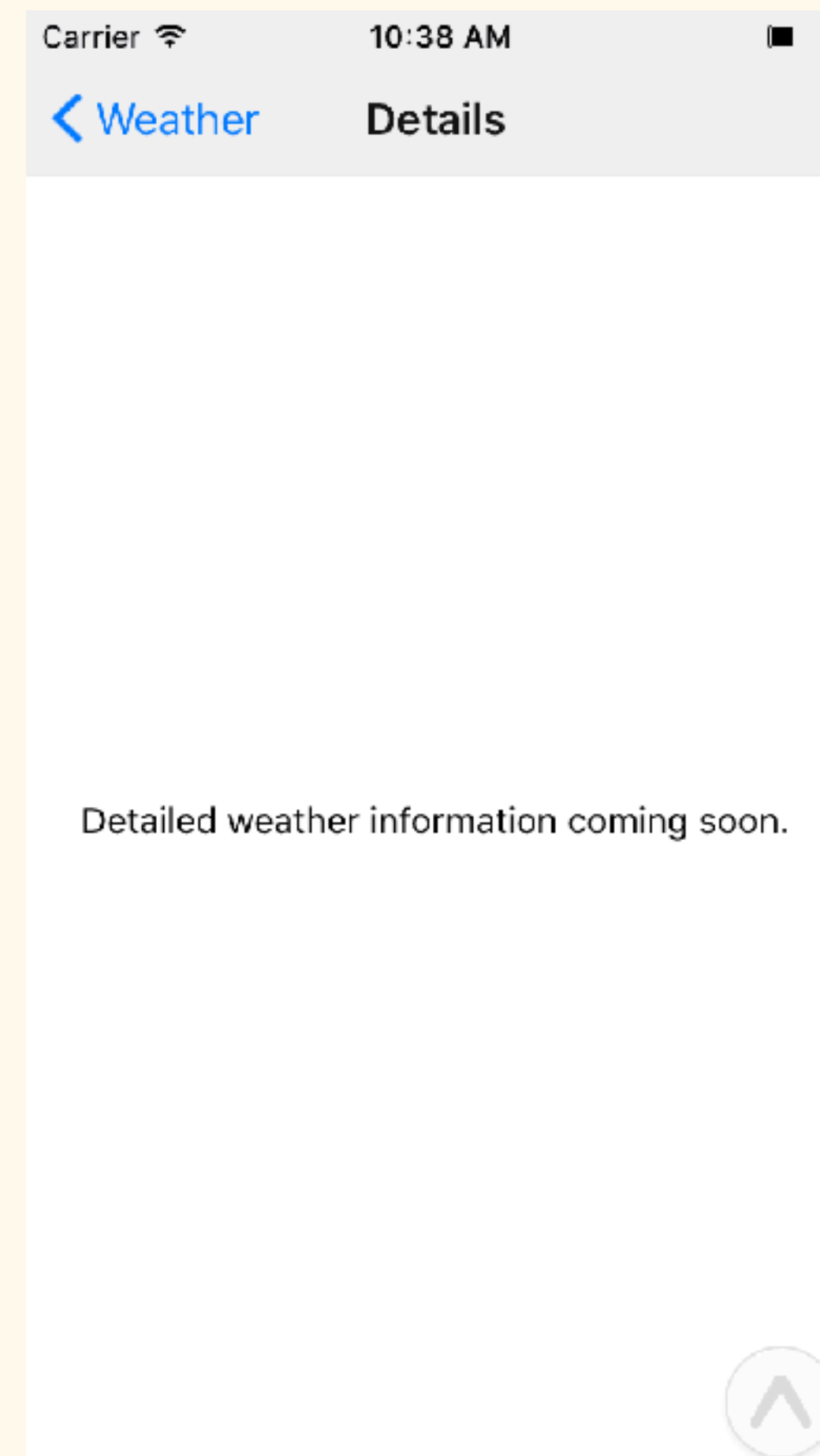
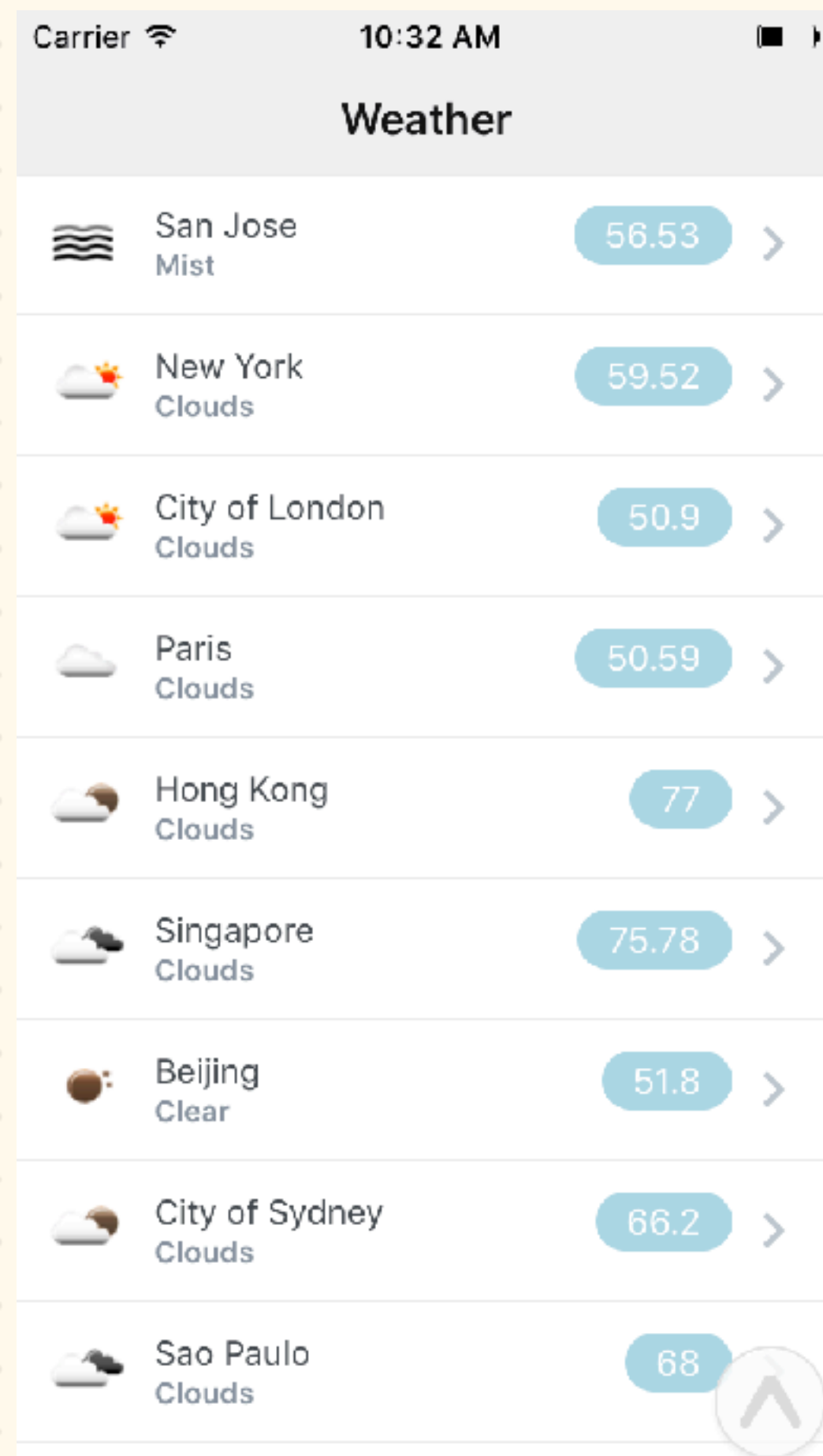


LISTITEM FROM REACT-NATIVE-ELEMENTS

```
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 outer edges of the frame and point towards a central white box. The box is a rounded rectangle with a thick white border and contains the text 'F8' in a bold, black, sans-serif font. To the left of the box is the number '20' and to the right is the number '17', both in a bold, black, sans-serif font. The arrows are arranged symmetrically, with four pointing from the top and four from the bottom.