Introduction to ReactJS

MCJUG @ 5AM Solutions

Dec 2014

Yue Liu

Full stack independent developer

NodeJS/MongoDB/Bootstrap/jQuery/ReactJS

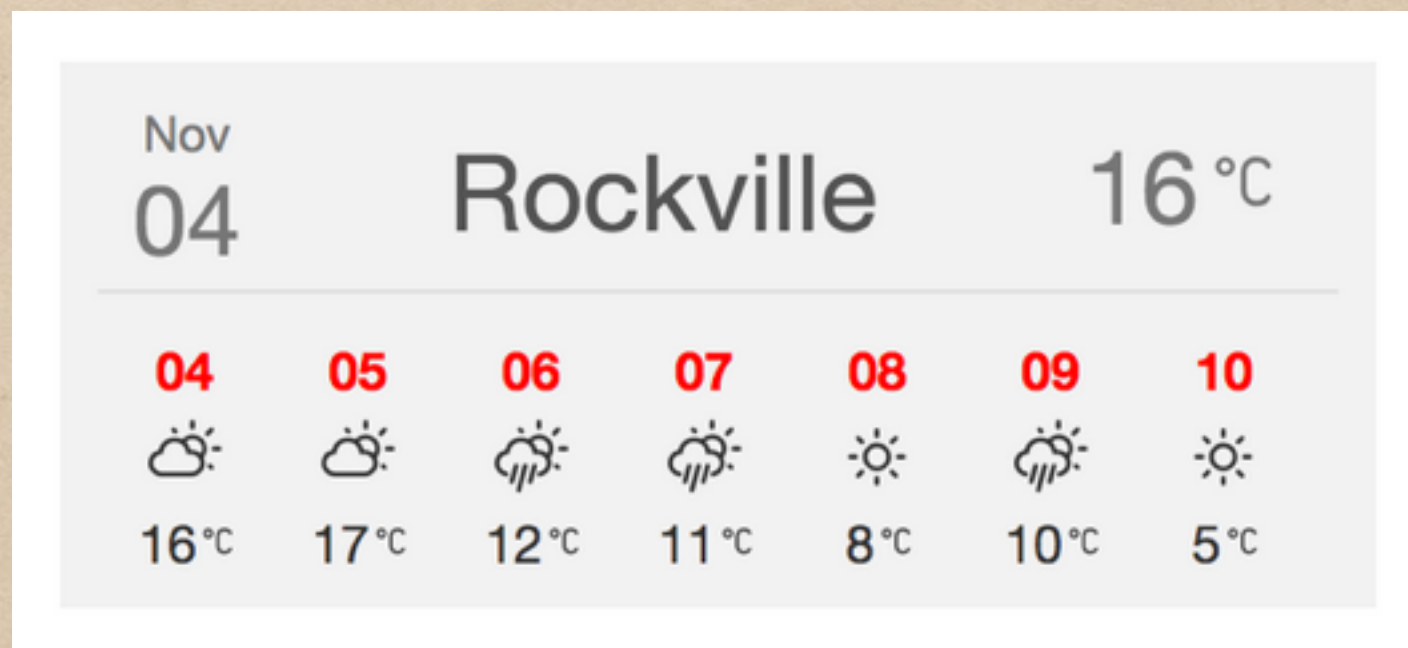https://www.linkedin.com/in/leapon

What is ReactJS

React is a JavaScript library for creating UI components by Facebook and Instagram

Favor building composable components, not by extending

Clean single direction data flow: parent > children

Custom HTML element using a HTML-like syntax

What we will build using ReactJS

A weather display component
in 8 steps

1. Display forecast in HTML

Step 1

[Get Weather]

date:Nov 05
weather:Clouds
temperature:14.14

Weather data source

Website: http://openweathermap.org/

API site: http://openweathermap.org/api

2. Display forecast in ReactJS

Step 2

[Get Weather]

date: Nov 05
weather: Clouds
temperature: 14.14

Use forecast API

Wrap display in ReactJS DayForecast component
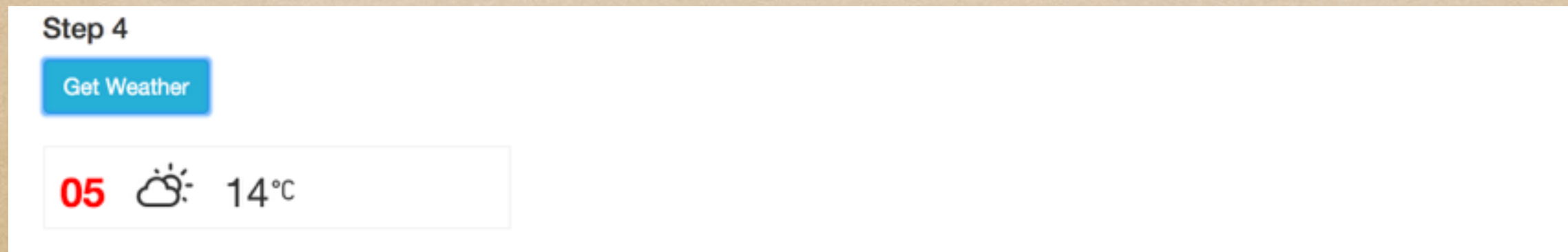
3. Pretty up the forecast display

Step 3

Get Weather

05 ⛅ 14 ℃

Icon font for weather:
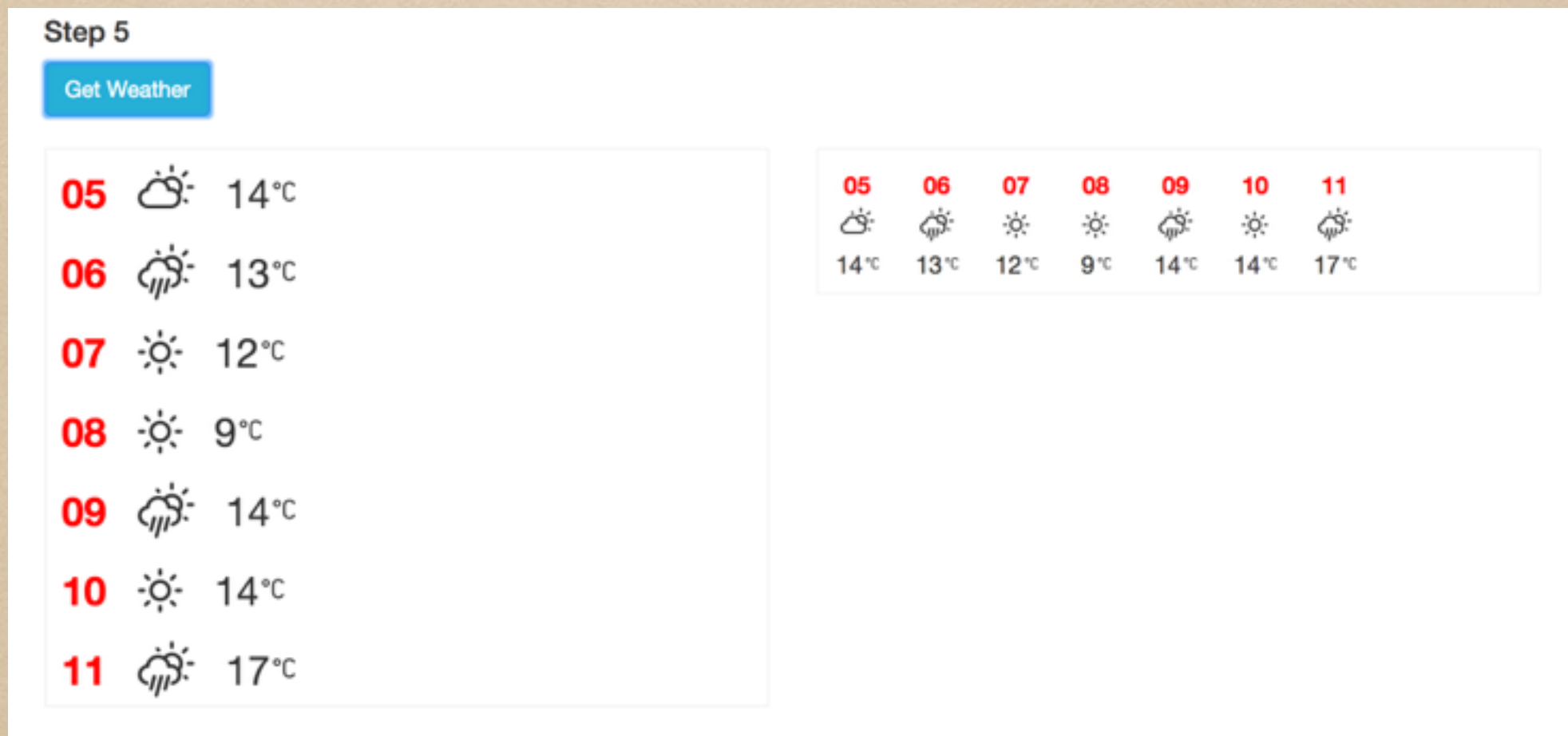
https://github.com/erikflowers/weather-icons

4. Create DayForecast component

Separate ReactJS component code to files for reuse

/library/reactlet-weather/weather-day.js
/library/reactlet-weather/weather-day.css

5. Wrap into WeekForecast component

WeekForecast component uses DayForecast component for display

6. Consolidate in Weather component

Step 6

05	06	07	08	09	10	11
14℃	13℃	12℃	9℃	14℃	14℃	17℃

weather data retrieval is moved inside ReactJS component. Location is passed in as a parameter.

Weather component is composed of WeatherCurrent and WeatherWeek components
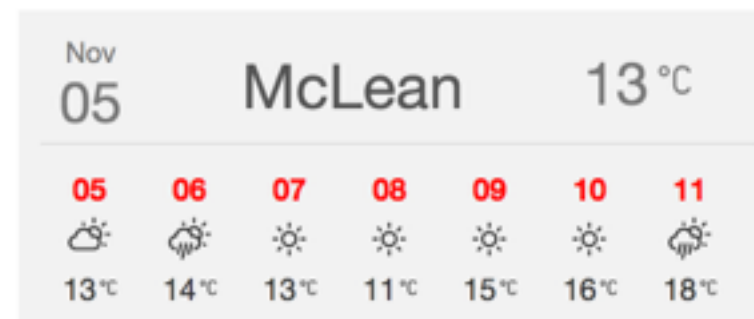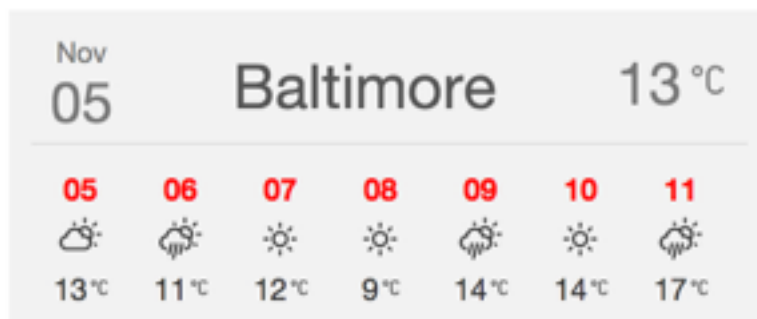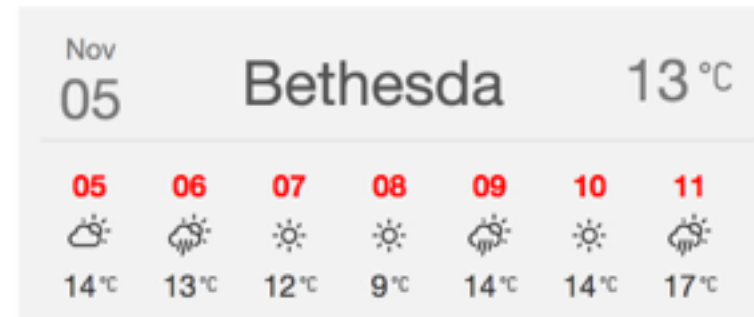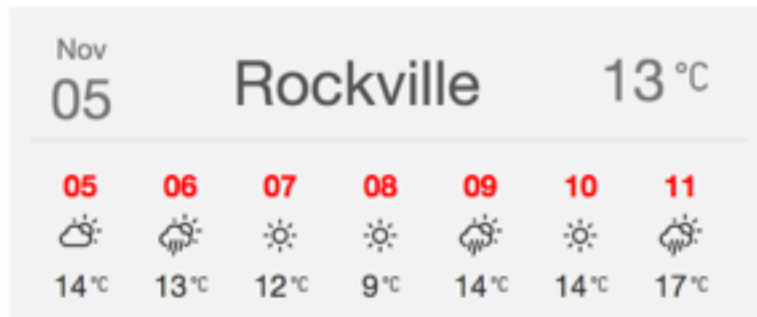
7. Add current weather and location

Populate current weather and location information

8. Add multiple city weather display

Other UI Components I created
https://github.com/reactlet
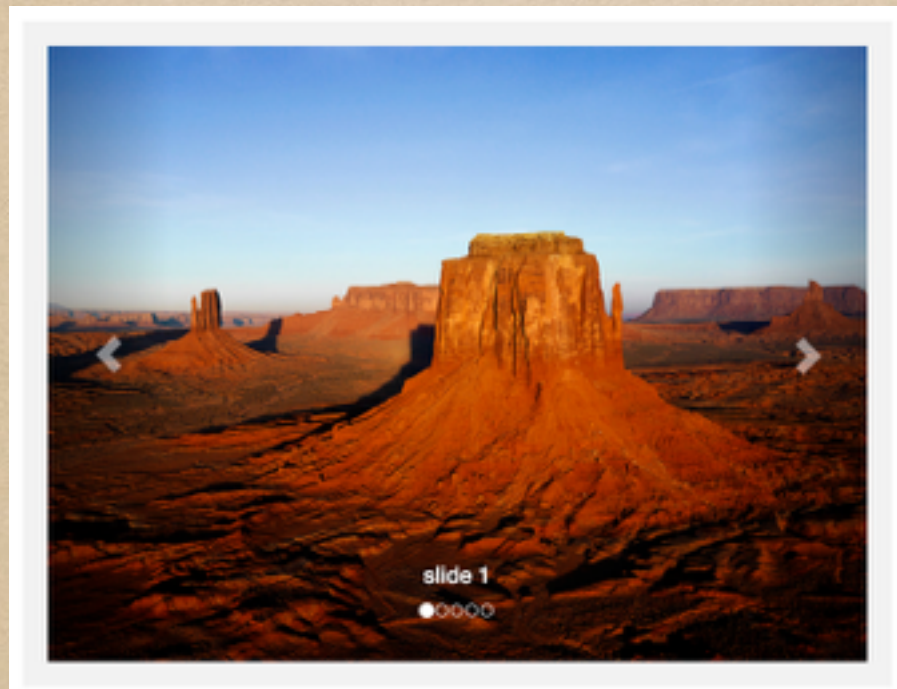
Questions?

Useful Links:

http://facebook.github.io/react/

http://facebook.github.io/flux/

https://github.com/leapon/intro-reactjs

https://github.com/reactlet