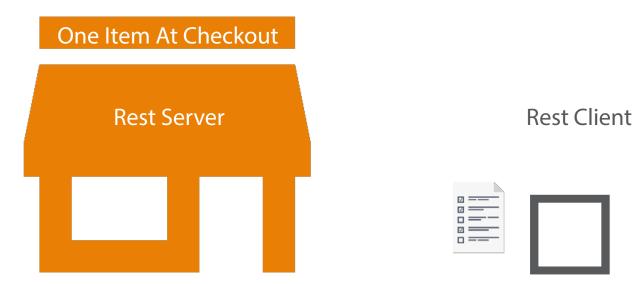
Building Data-driven React Applications with Relay, GraphQL, and Flux

Introduction



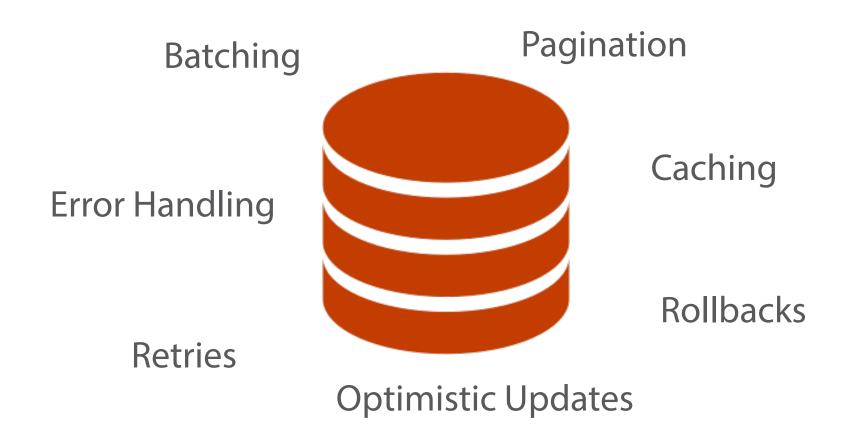
Samer Buna
@samerbuna | ReactjsCamp.com

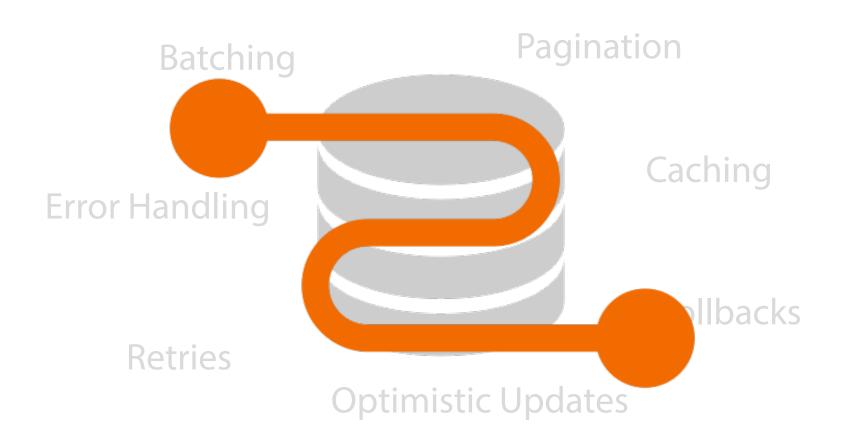
Why This Course

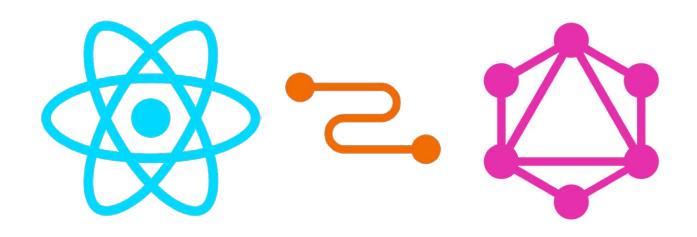


```
/posts
/posts/1
/posts/1?includeComments=true
/posts?includeTags=true
/posts?limitTo=10&orderBy=date
/posts/random
```

```
/posts
   sts/1 IncludeComme is=tr
       includeTags=true
/posts/rank
```

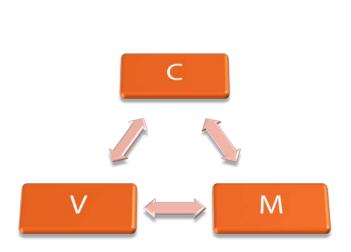




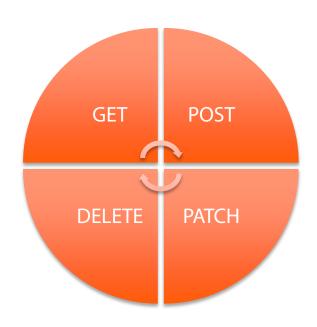


Can We Do Better?

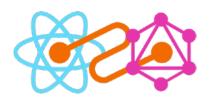
Model View Controller



REST APIs



This Course



Build something from scratch

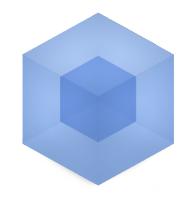
Small increments

Concepts by example

JavaScript (ES2015+)

ES2015+, Node, and Express

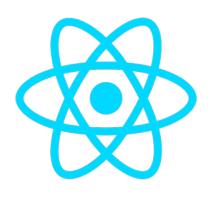






Crash Courses Included

React.js



Components

Reusable

Composable

Stateful

Write HTML with JavaScript

HTML in JS? Why??



Data => HTML

PHP/JSP server-side

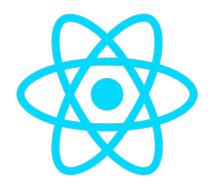
Send only the Data to the client

Enhance HTML: Loops, Conditionals, ...

Generate HTML with JavaScript

Virtual DOM

React.js: Disadvantages

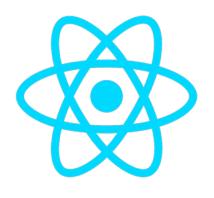


Give up HTML?

Integration with other libraries

What about the M and the C

React.js: Disadvantages

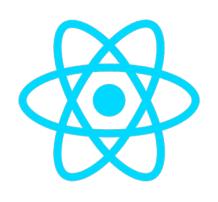


Give up HTML? JSX

Integration with other libraries Lifecycle Methods

What about the M and the C - RGR

React.js: Advantages



Powerful and Flexible JavaScript

No learning curve

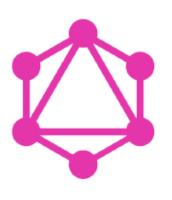
The Virtual DOM performance

Reactive updates

Not only for the browser

React Native

GraphQL



JSON without the values

person: { name: ..., address: ...}

No custom endpoints

Clients ask exactly what they want

One endpoint to rule them all



#REST APIs are now #RestInPeace APIs Long live #GraphQL

RETWEETS **FAVORITES**

18

18















9:30 AM - 17 Sep 2015













Flux



No data binding, one-way data flow

Views do not change the models

A single dispatcher

Views listen, React reacts

What's wrong with MVC?

Constraints are good

Relay



Flux++

No separation of views and models

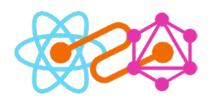
Data requirements expressed with GraphQL

Fetch and make data available as props

Updates (Mutations)

Efficiency, consistency, and error handling

What We Are Going to Build



Educational resources for the RGR stack Users can add new resources (links)

See the one big list

Search