

Who am I?

Alexander Varwijk @Kingdutch

Lead Front-end Engineer at Open Social

(Happy with an excuse to suit up)



What do we do?

Community Engagement Platform

Built on top of Drupal



Checking out our tech-stack



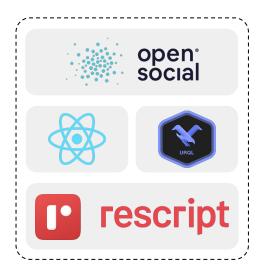
The Open Social server

Checking out our tech-stack

extending the product with Real-Time Chat

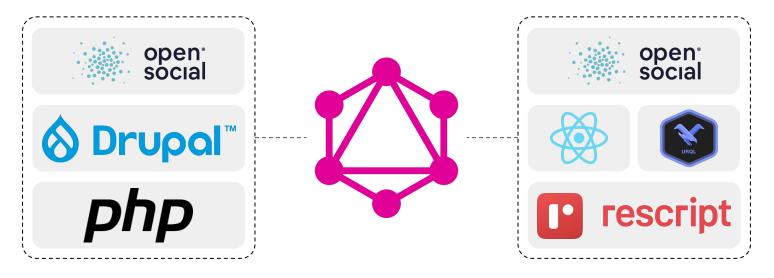


The Open Social server



The Open Social Chat Client

Checking out our tech-stack with GraphQL to bind them



The Open Social server

The Open Social Chat Client

GraphQL in Drupal

a library and a module



The Open Social server



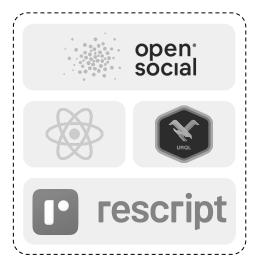
graphql-php

"A PHP port of the GraphQL reference implementation"

webonyx/graphql-php

Drupal GraphQL

"Lets you craft and expose a GraphQL schema for Drupal" Built on graphql-php drupal.org/project/graphql



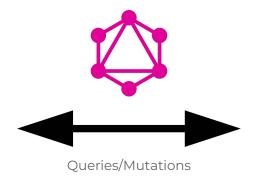
The Open Social Chat Client



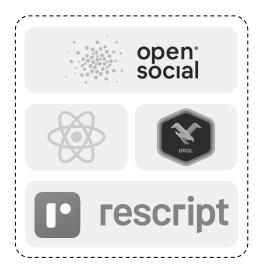
GraphQL in Drupal It has a few limitations



The Open Social server



Subscriptions



The Open Social Chat Client



Solving for subscriptions

Building a separate subscription service













Solving for maintainability

Play to the strengths of your team members



Asynchronous PHP Choosing your NodeJS equivalent



ReactPHP

https://reactphp.org/



Amp

https://amphp.org/



Revolt PHP 8.1 Fibers https://revolt.run/



Asynchronous PHP Handling websockets



ReactPHP Async event loop https://reactphp.org/



Ratchet Websockets https://github.com/ratchetphp



Asynchronous PHP

Handling GraphQL subscriptions



ReactPHP
Async event loop
https://reactphp.org/



Ratchet
Websockets
https://github.com/ratchetphp



GraphQL Websocket PHP graphql-ws in PHP goalgorilla/graphql-php-ws

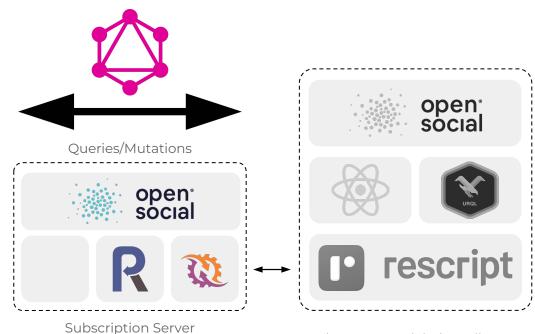


Accepting websockets

using PHP







The Open Social Chat Client



Responding to new events

with a message queue



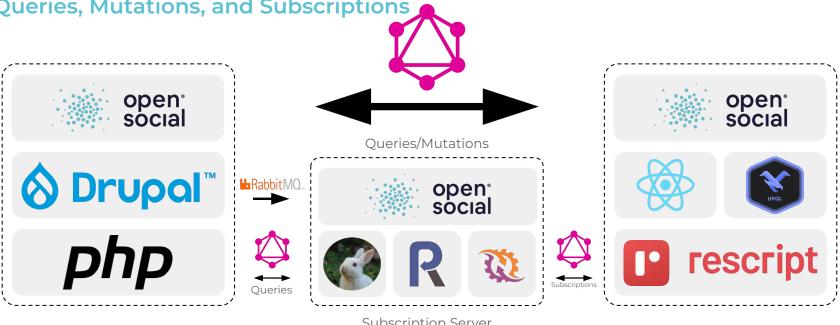
RabbitMQ Message Queue https://www.rabbitmq.com/



Bunny
RabbitMQ Client for ReactPHP
jakubkulhan/bunny

^{*} Bunny has no logo so here's a photo by Satyabrata sm on Unsplash

Bringing it all together
Queries, Mutations, and Subscriptions



The Open Social server

Subscription Server

The Open Social Chat Client

wrapping up

Serving GraphQL subscriptions using PHP and Drupal

Presented by Alexander Varwijk

