Build Your Own Application System From Scratch

Fullstack FTW

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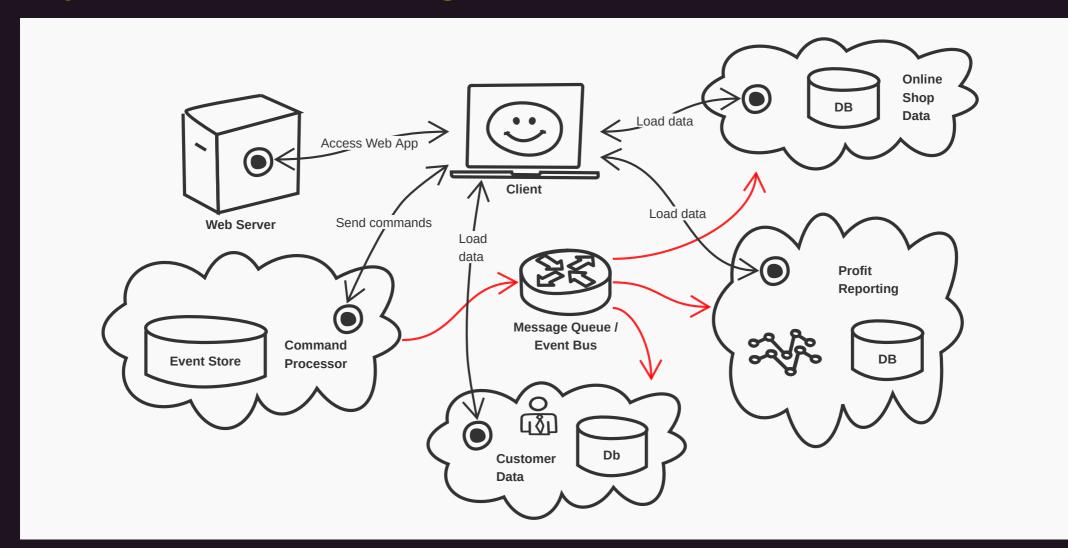
The Plan

- Create an application system with lots of modern architectural components
 - CQRS/Event Sourcing backend
 - React frontend
 - Cool bidirectional communications
- To fully understand the wheel, it may be necessary to reinvent it

CQRS / Event Sourcing

- CQRS: Command Query Responsibility Segregation
 - Separate execution paths and data models for commands and queries
- Event Sourcing: Derive all application system state from a central log of events

CQRS / Event Sourcing



DEMO

Let's jump in at the deep end...

Block 1 Workshop - CQRS/ES

- Starting point project: https://osturm.me/odfs-1-start
- End point project: https://osturm.me/odfs-1-end

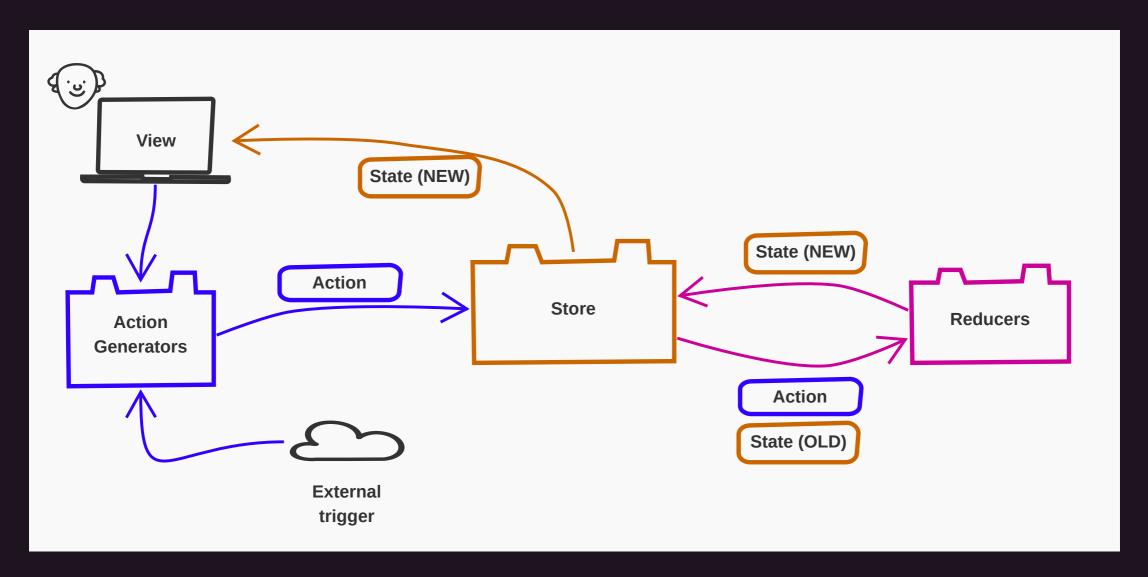
Block 2 Workshop - React

- Starting point project: https://osturm.me/odfs-2-start
- End point project: https://osturm.me/odfs-2-end

React - The Missing Parts

- Redux
- Routing
- Interacting with the backend
- Edit form handling

Redux



DEMO

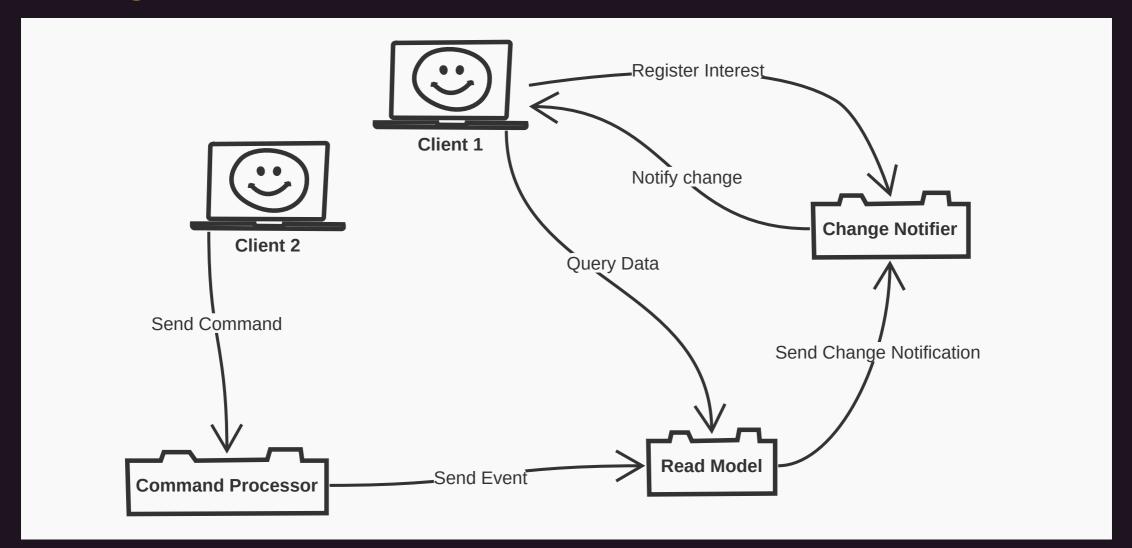
Block 3 Workshop - React Infrastructure

- Starting point project: https://osturm.me/odfs-3-start
- End point project: https://osturm.me/odfs-3-end

socket.io

- Bidirectional communication between server and clients
- Flexible transport system -- works everywhere
- Message passing semantics

Change Notifier Service



DEMO

Block 4 Workshop - Change Notifications

- Starting point project: https://osturm.me/odfs-4-start
- End point project: https://osturm.me/odfs-4-end

Sources

- This presentation:
 - o https://oliversturm.github.io/one-day-fullstack-complete
 - PDF download:
 https://oliversturm.github.io/one-day-fullstack-complete/slides.pdf
- Source code: https://github.com/oliversturm/one-day-fullstack-complete

Thank You

Please feel free to contact me about the content anytime.

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