Single Page Application Architecture A Project-Proven Approach

Jason Brown and Jeff Sallans



Introductions



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Who We Are

X by 2 develops strategies and executes transformational enterprise initiatives for insurance and healthcare clients.



Petroit, MI and Toronto, ON

45 employees







The value a Single Page Application

High-level architecture

Finding the right SPA developer

Unnoticed tech debt

Flux architecture



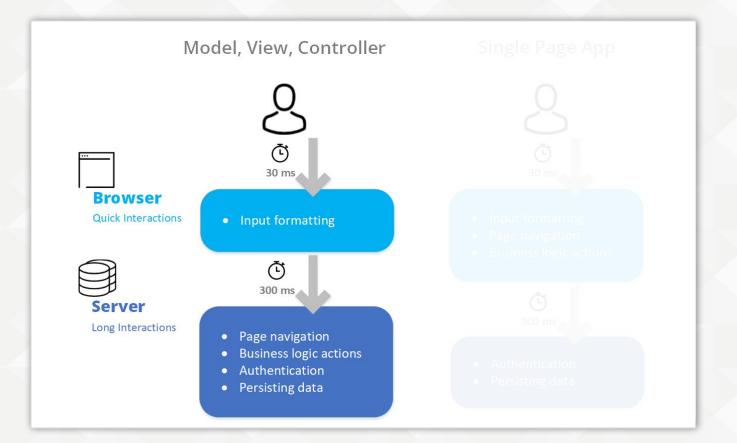
The value of a Single Page Application

- Seamless user experience
- Removes full page reloads
- Rich user interactions



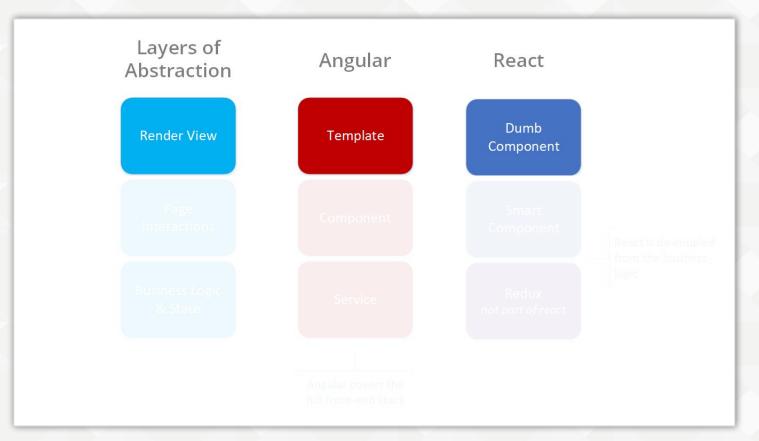


How do we make the web feel like mobile?





High-level Architecture



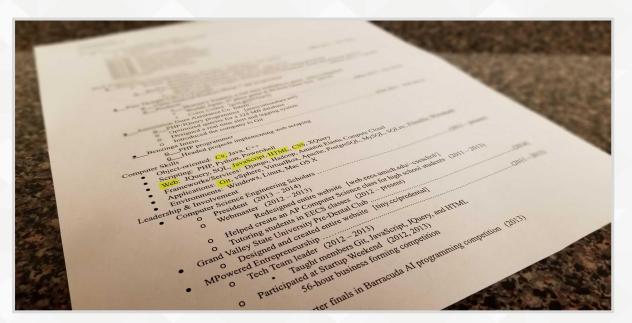
Finding the Right SPA Developer



What I have seen in large companies

Keyword Resume Search

Interacting with Human Resources Department



How did it turn out

- Additional training
- Unnoticed tech debt
- Smaller scope for tasks





My preferred strategy

X by 2 interviewing method

- Do they have enterprise experience
- Do they understand core concepts
- Do they have a process

Why should I train a developer on a technology?

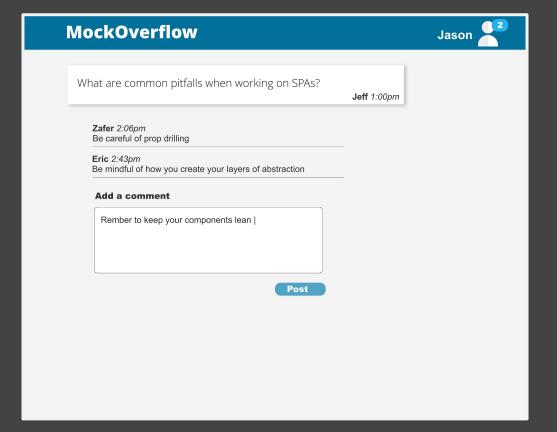


Training

- Typically 2-3 weeks
- Activities include:
 - Reviewing technical videos
 - Reviewing project documentation
 - Environment setup
 - Testing a pattern in a skeleton project
 - Pair programming

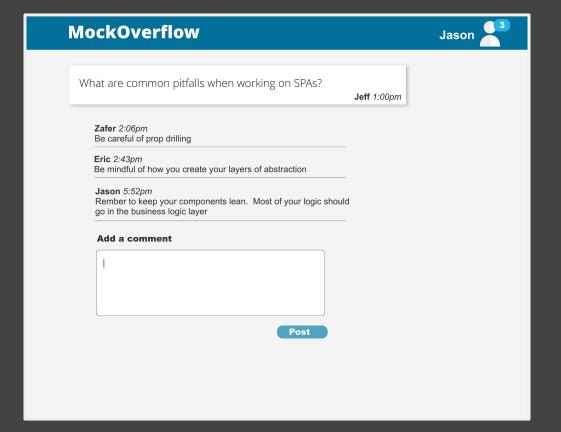
You might have already hired your best SPA developer







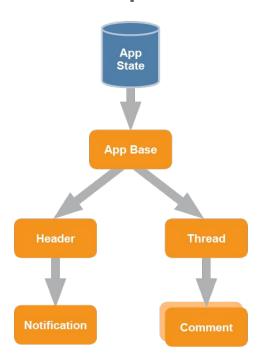




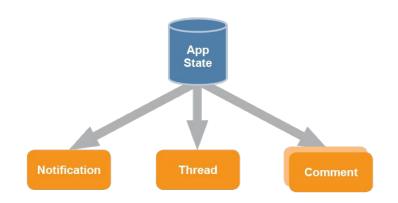


Prop Drilling

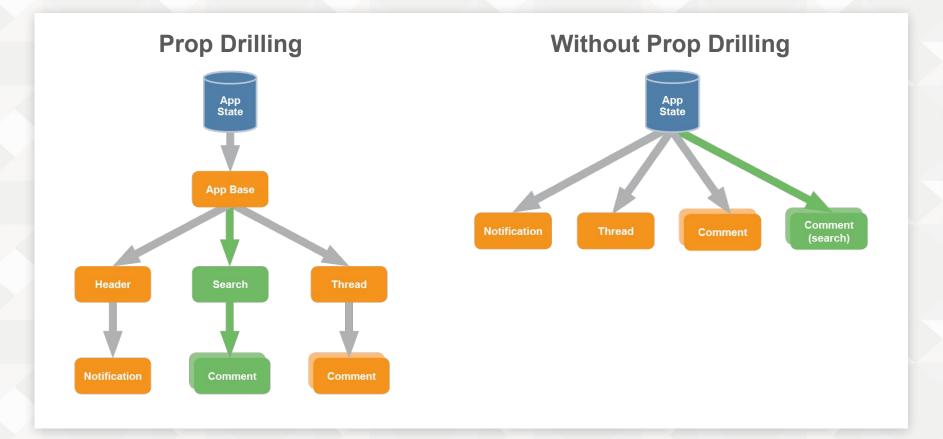
What Developers Fall Into



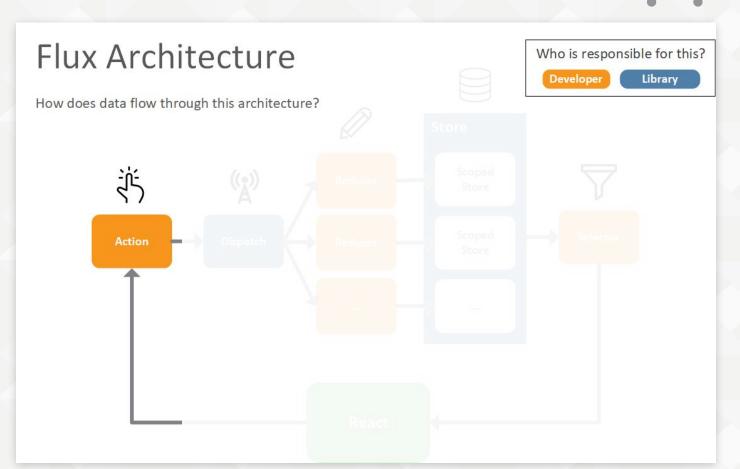
What Makes Development Faster



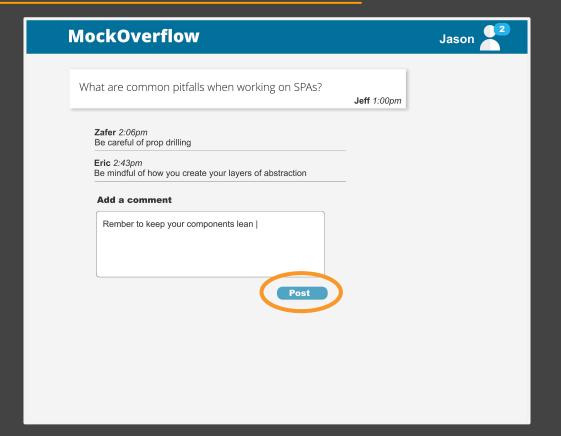
Another feature





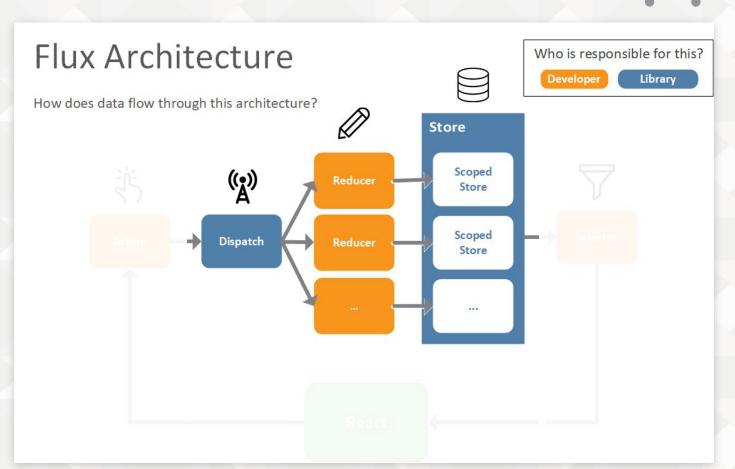




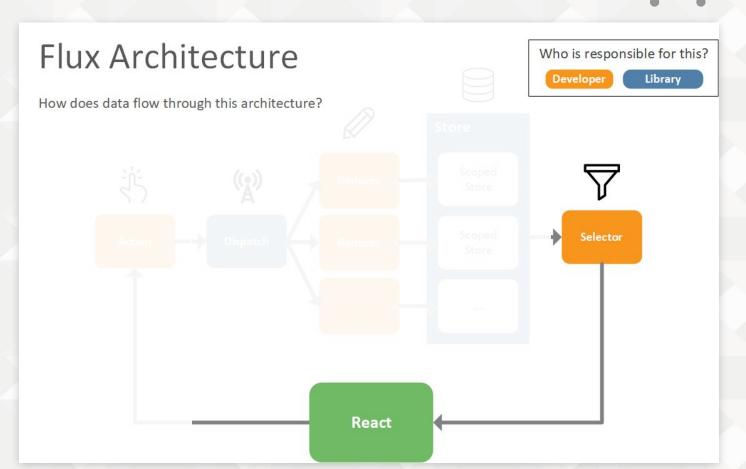










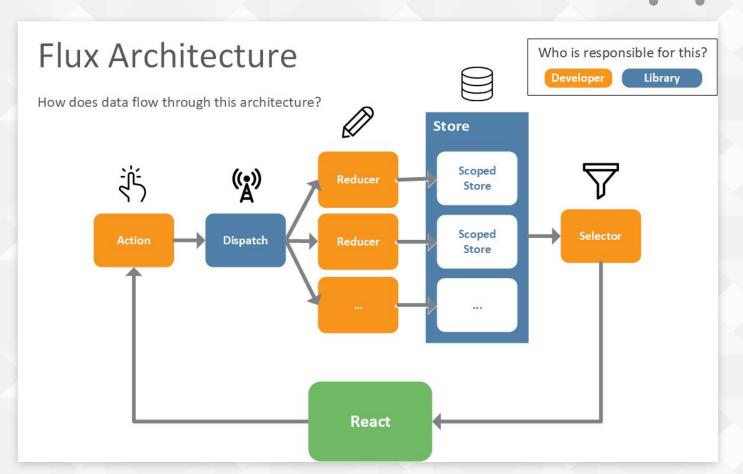






MockOverflow		J; son 3
	What are common pitfalls when working on SPAs? Jeff 1:00pm	
	Zafer 2:06pm Be careful of prop drilling	
	Eric 2:43pm Be mir that or now you create your layers of abstraction	
	Jason 5:52pm Rember to keep your components lean. Most of your logic should go in the business logic layer	
	Add a comment	
	Post	





Flux Architecture

- Separates "page interaction" from "business logic"
- More maintainable and flexible
- Easier to test

Q & A



Thank you and let's continue the conversation

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React vs Angular

API Gateways

Testing

Single Sign-on Micro Frontends

Server-Side Rendering