



SETTING





WHAT ARE YOU HERE FOR?

- > Listen to a nice tale from the trenches
- > Learn from our experience (mistakes?;) the what and the why
- Get any questions you have answered



AGENDA

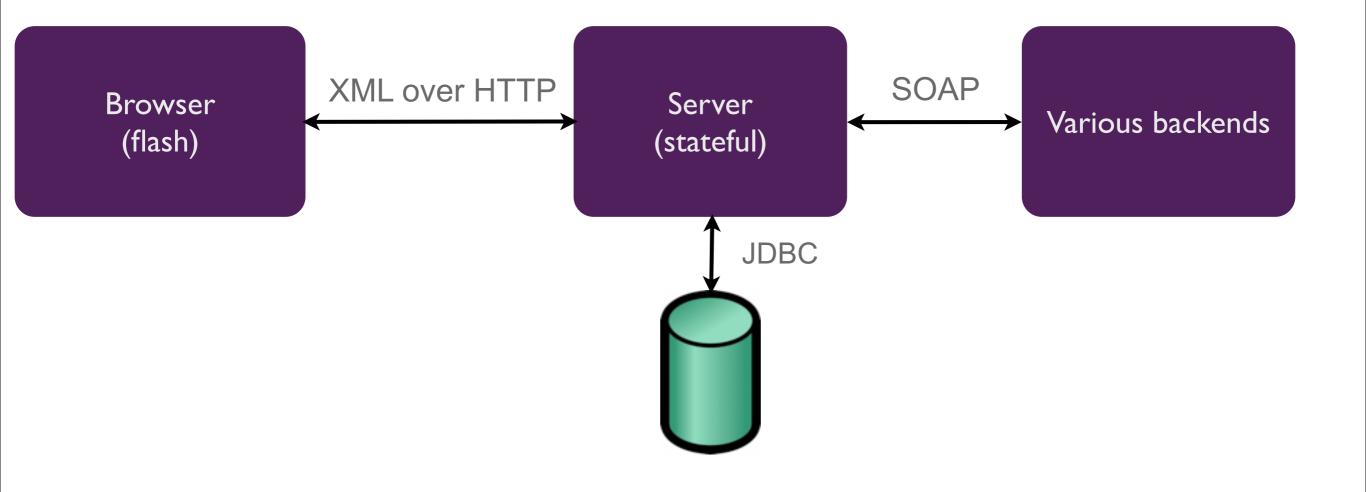
- Context
- > Problems that need fixing
- Scalable architecture
- > Technology & frameworks you need
- > Questions



PROBLEMS THE SUPPLIER CAN'T FIX (IN A TIMELY FASHION)

- > Impossible to match corporate design
- > Flash-based technology, unsuitable for mobile devices
- Missing features
- Sluggish / jerky user experience (scalability)
- > Fault tolerance issues







REALIZING CUSTOMER WISHES

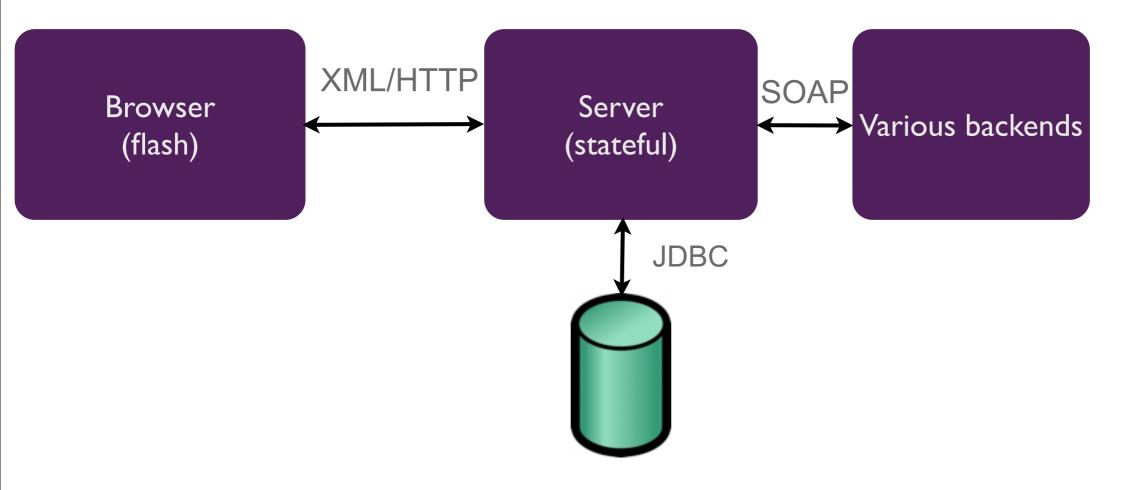
- > Decision: replace the frontend entirely with custom software
 - Integrate with service layer to be built by supplier
 - Custom "new" functionality, such as a search engine for stocks can be realized
 - Existing functionality can be improved and customized



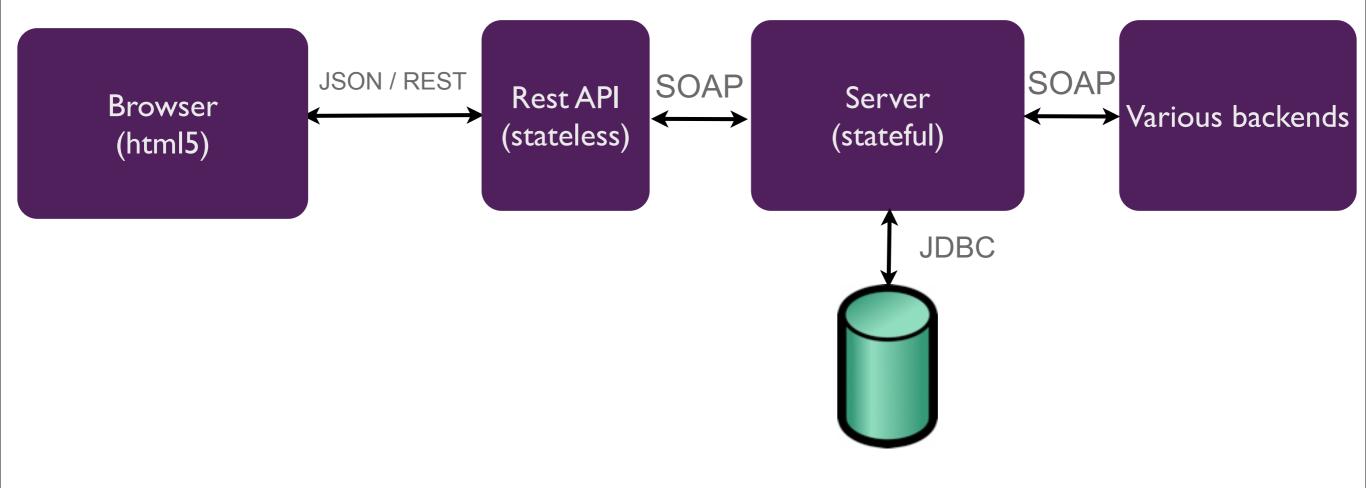
CREATING A SCALABLE ARCHITECTURE

- Decision: REST architectural style with JSON
 - the usual scalability benefits (stateless, cacheable, ..)
 - enables mixing of "slow" and "fast" pieces of data in a page
 - clear separation from display (data vs presentation)
 - JSON: efficient format, good browser support
 - reusable for mobile apps











WHAT IF THE SUPPLIER DOESN'T DELIVER...

- > Waiting for the supplier to deliver a workable service layer (months!)
 - Create a mock implementation
 - Treat the mock as the real thing
 - Once the the service layer is reasonably stable, plan to integrate it
 - Put (re)work on the backlog!

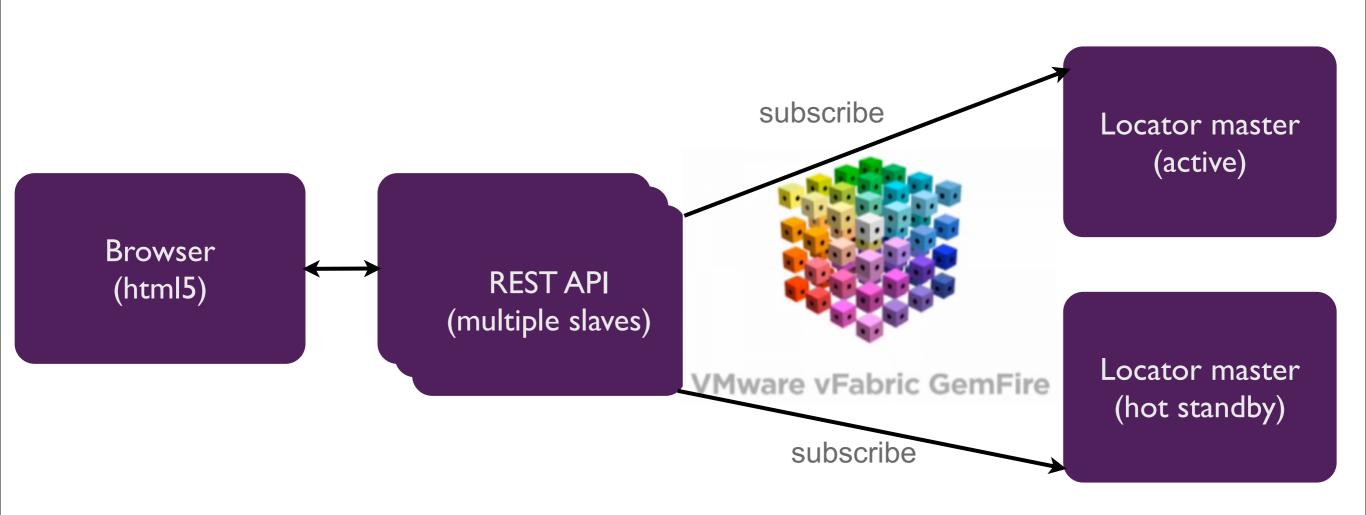




Locator master (active)

Locator master (hot standby)





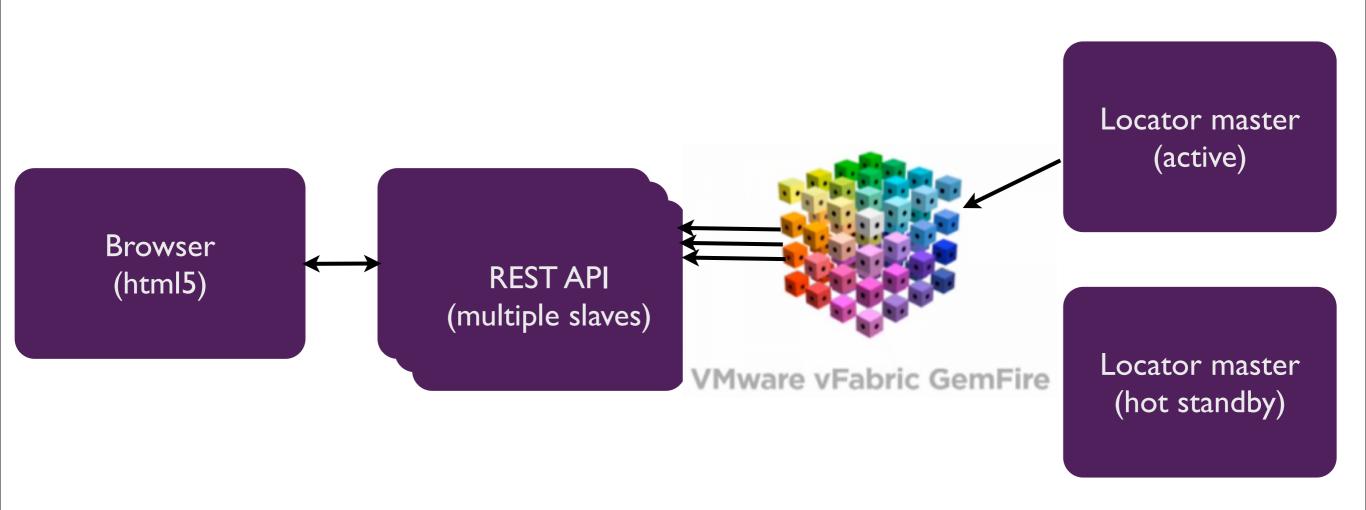




Locator master (active)

Locator master (hot standby)









Locator master (active)

Locator master (hot standby)



SINGLE-PAGE WEB APPLICATIONS

- 'Heavy' client, light server
- > Client-side UI rendering; server only serves data
- > Light-weight, scalable and focused server component (REST)
- > Takes advantage of fast browsers of today both desktop and mobile
- AJAX to the max





BACKBONE.JS

Collections

Ordered Sets Of Models **Views**

Render HTML/CSS With JavaScript templating

handlebars



Backbone.js App Structure

Models

Interactive Data Domain-specific methods Controllers

Methods For Routing URL Fragments



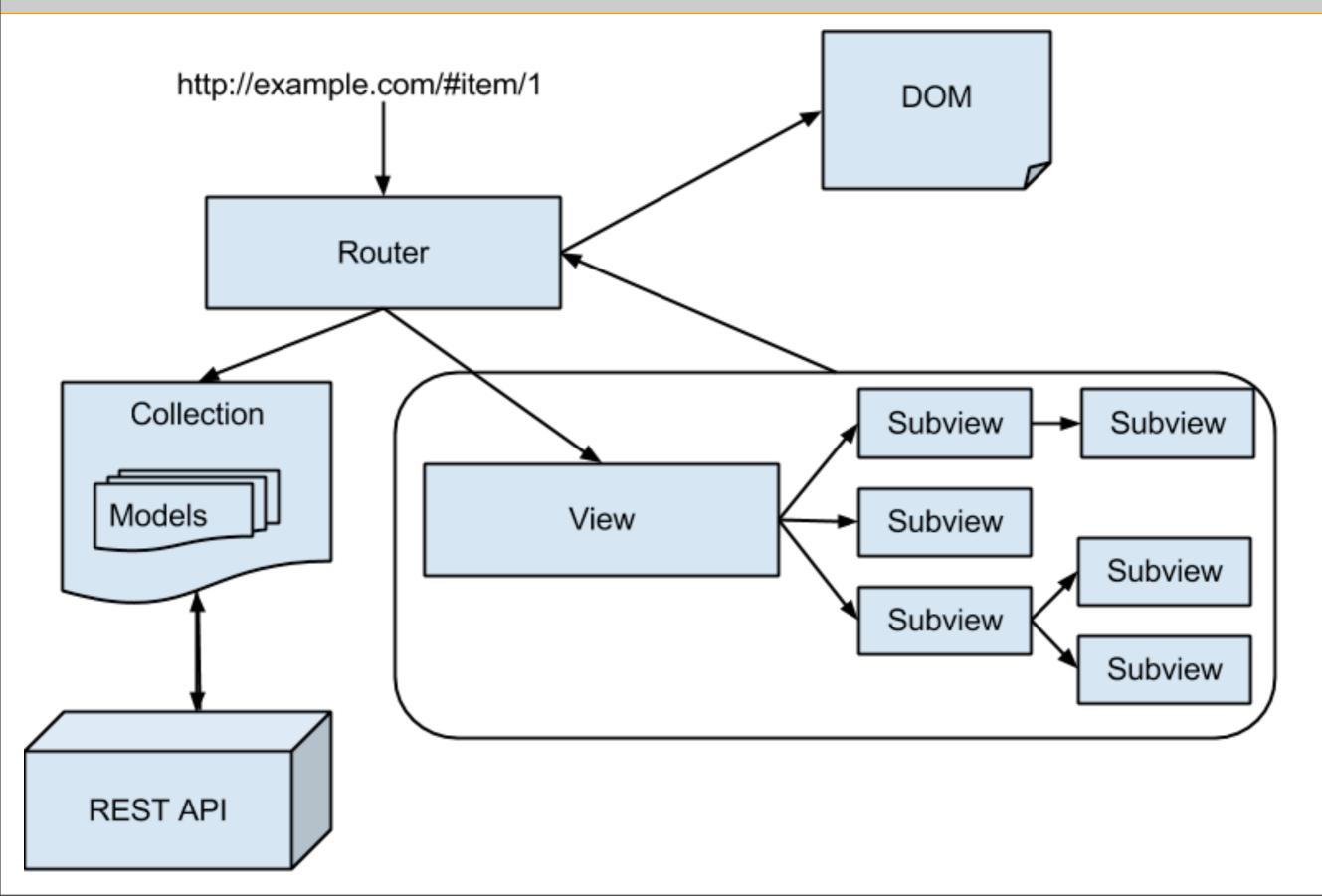
Todos

What needs to be done?

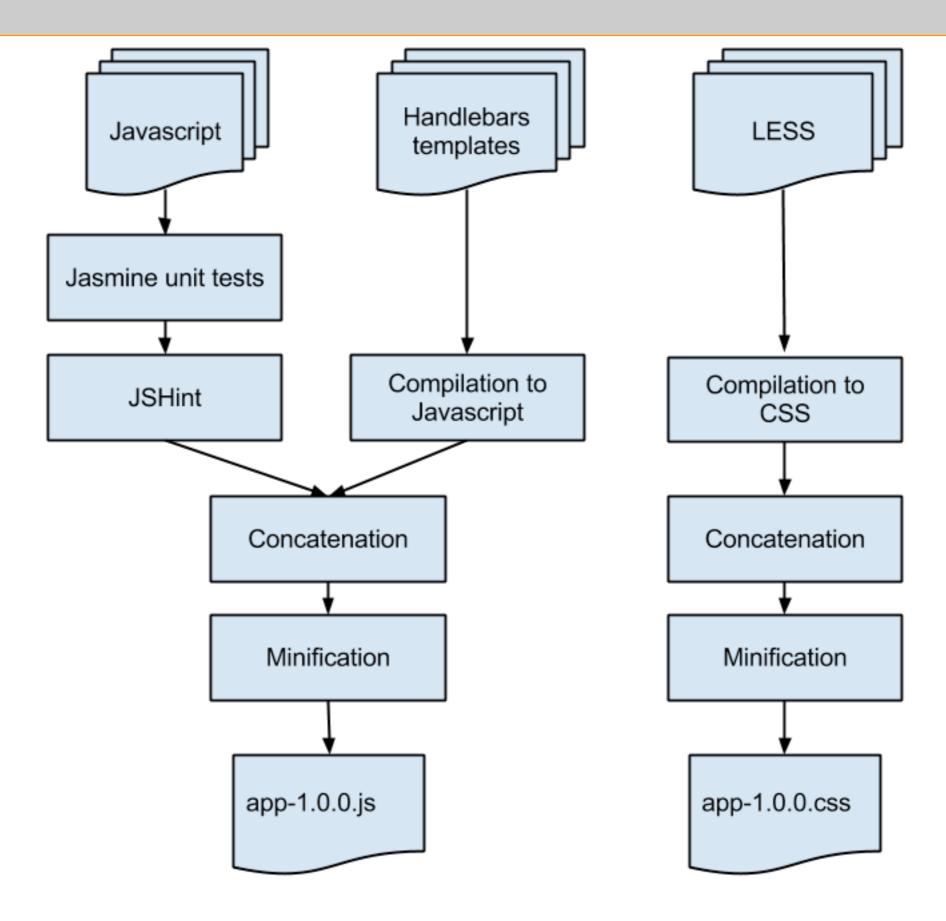
- Mark all as complete
- Make all the people happy

1 item left











Bootstrap

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

Download Bootstrap

GitHub project

Examples

Extend

Version 2.3.2



Project name

Home	Projects	Services	Downloads	About	Contact

Marketing stuff!

Cras justo odio, dapibus ac facilisis in, egestas eget quam. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.

Get started today

Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus

Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus

Heading

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum

id liquid parts falls suismed semper Fuses

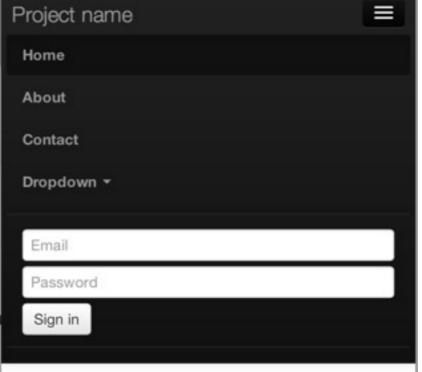


Project name Home About Contact Dropdown ▼ Email Password Sign in

Hello, world!

This is a template for a simple marketing or informational website. It includes a launit and three supporting pieces of content. Use it as a starting point to create s

Learn more »



Hello, world!

This is a template for a simple marketing or informational website. It includes a large callout called the hero unit



LIVING STYLE GUIDE AS SEPARATE PRODUCT

- > Extending Bootstrap with custom, application / environment-specific components
- > Example for new pages
- > Physical, immediately usable implementation of corporate design
- > Developed as a separate product

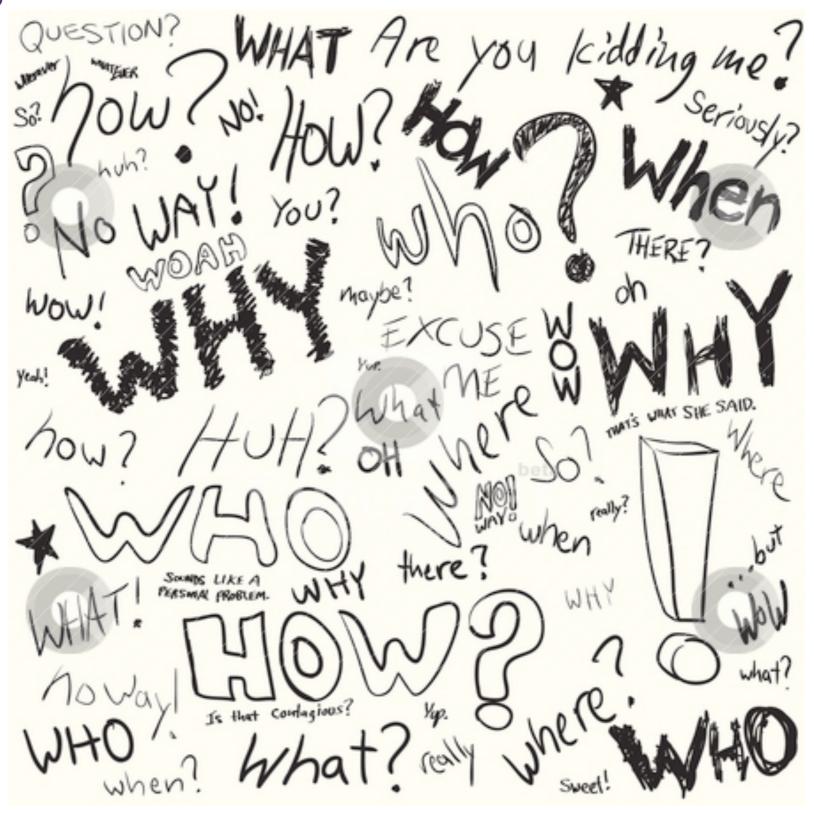


ROUND UP

- > For large scale single page webapp development you need:
 - a scalable, fault tolerant back end: REST and JSON
 - to choose framework that enables you to work in modules
 - to treat client-side code as you would java code: style checks, unit tests, compilation and packaging
 - to treat styling as first class citizen, product



QUESTIONS



22



PLEASE GIVE US YOUR FEEDBACK



http:/bit.ly/xc_large