

Washboard A/B

Full stack A/B testing framework built for
microservices

What is A/B testing

A method of comparing two versions of a webpage or app against each other to determine which one performs better. [-Optimizely](#).

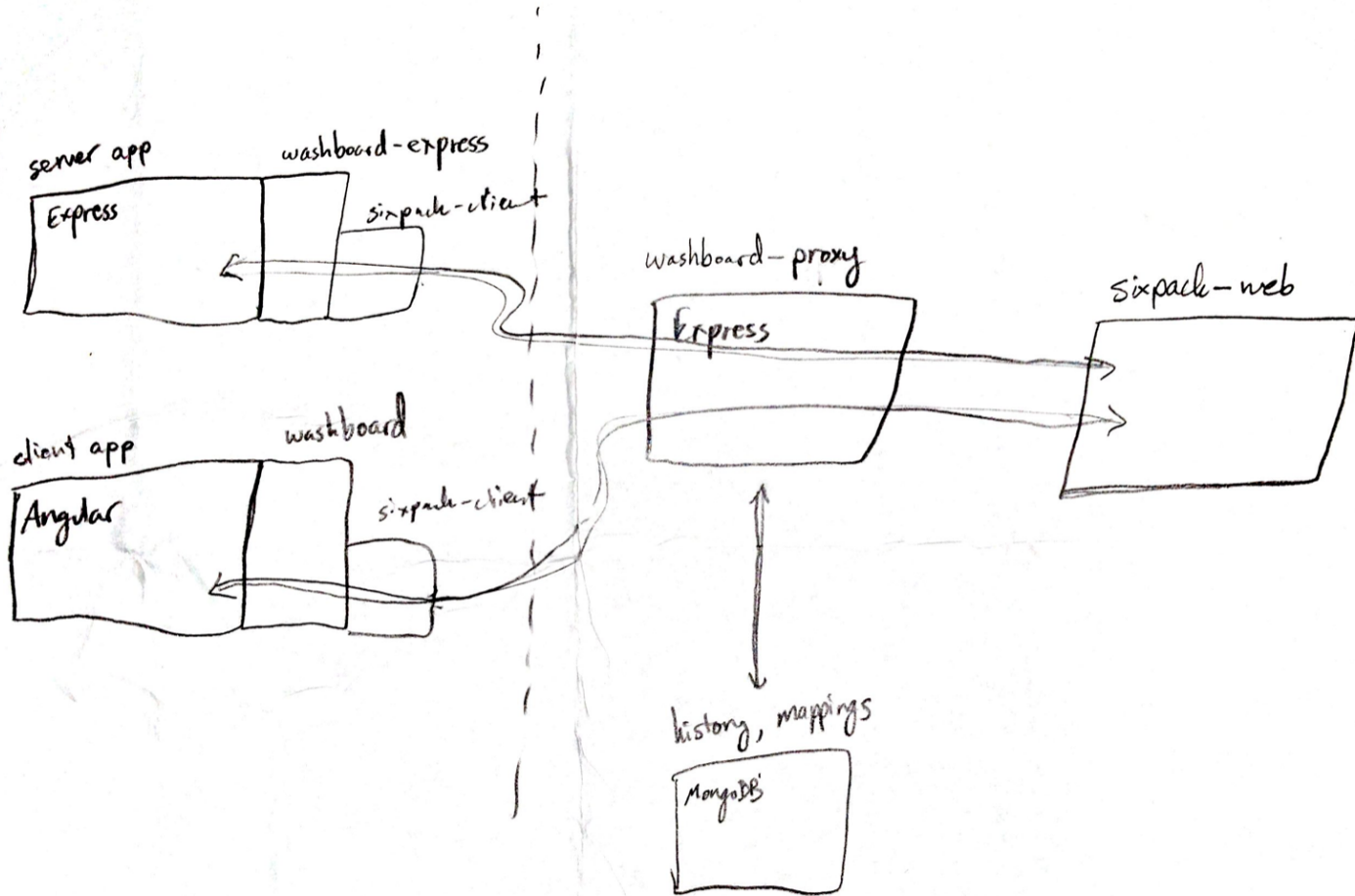
What is A/B testing

Really consists of two calls

- participate (e.g. sees a "donate" button)
- convert (e.g. clicks a "donate" button)

Architecture

- **Dashboard server**
 - Sixpack server
- **Client modules**
 - Angular package
 - Express package



Angular module

Consumption

```
<washboard-experiment
  [experiment]='sample-experiment'
  [alternate]='alternate-alpha'>
  ...
</washboard-experiment>

<washboard-experiment
  [experiment]='sample-experiment'
  [alternate]='alternate-beta'>
  ...
  <button (click)="convert('sample-experiment', 'alternate-beta')">
    >Click me!</button>
</washboard-experiment>
```

Express module

Consumption

```
const assignedAlternate = await washboard
  .participate('sample-experiment');

switch (assignedAlternate) {
  case 'alternate-alpha':
    ...
    break;
  case 'alternate-beta':
    ...
    break;
}
```

Functionality: Client

Interchangable components

- HTML
- CSS (encapsulated)
- Methods
 - Switch out entire APIs

Functionality: Framework

Microservices pattern

- [Experiment->alternate] mappings can be changed without restarting the main service
- Each piece can be rewritten/replaced

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- t-hugate
- hcgatewood.github.io/about
- MIT year 4
- Mentor: Vishwam
- Manager: Bobby
- made with Remark.js