



Rails Template - Setup Javascript Testing

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Goals

Set up Javascript testing in Rails template

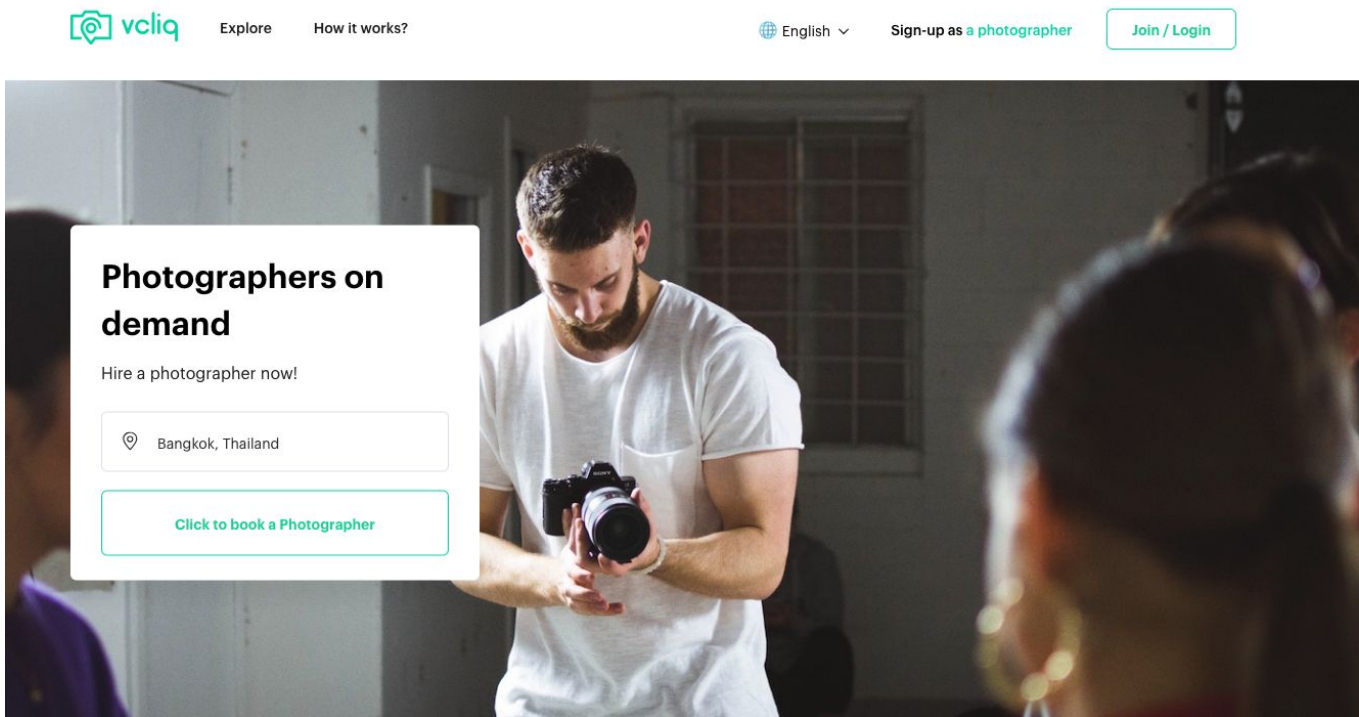
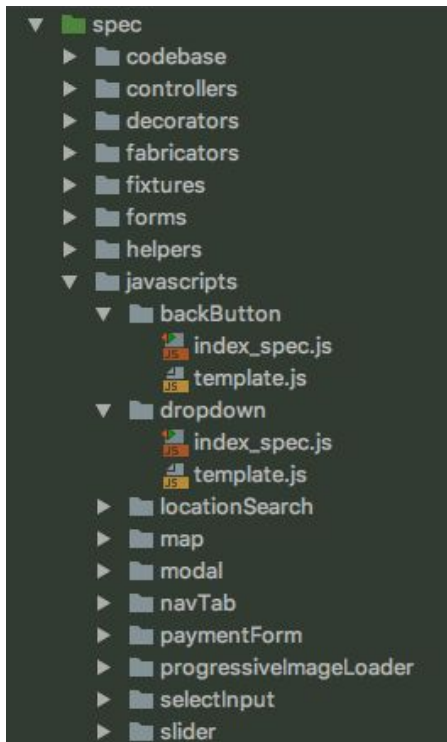


- ✓ Unit tests
- ✓ Feature tests



???

JS testing in VCliq



Js testing in vCliq

Spec.js

```
/*...*/
/* global JasmineSandbox:true, MouseEvent: true */

import Dropdown from '!CoreComponents/dropdown!';
import Template from './template';

describe('Dropdown', () => {
  describe('Initialization', () => {
    it('assigns instance variables', () => {
      JasmineSandbox.mount(Template['default']);

      let dropdown = new Dropdown(document.querySelector('.dropdown'));

      expect(dropdown.elementRef).toHaveClass('dropdown');
    });

    it('adds toggle event listener to the dropdown element', () => {
      JasmineSandbox.mount(Template['default']);

      spyOn(Dropdown.prototype, 'toggle');

      let dropdown = new Dropdown(document.querySelector('.dropdown'));
      dropdown.elementRef.click();

      expect(Dropdown.prototype.toggle).toHaveBeenCalledTimes(1);
    });

    it('adds hide event listener to body', () => {
      JasmineSandbox.mount(Template['default']);

      spyOn(Dropdown.prototype, 'hide');
```

Template.js

```
const template = {
  default: `
    <div class="dropdown">
      <button class="btn btn--primary" type="button" data-toggle="dropdown">Dropdown</button>

      <ul class="dropdown__menu">
        <li class="dropdown__item" ><a href="#">Item #1</a></li>
        <li class="dropdown__item" ><a href="#">Item #2</a></li>
        <li class="dropdown__item" ><a href="#">Item #3</a></li>
      </ul>
    </div>
  `;
};

export default template;
```

Alternatives

jasmine/jasmine-gem

- Easy setup
- Works really well with rails app with Sprocket
- Could be configured to run with Chrome headless <https://github.com/jasmine/jasmine-gem/issues/293>
- Does not work well with Webpacker



Problems

- Need to create the HTML fixture for testing
 - Painful for maintenance 🤖
- When to write JavaScript tests 🤔
 - All ?
 - Only complex-behavior components ?

Improvements

Spec.js

```
import InputPassword, { DEFAULT_SELECTOR } from 'Components/inputPassword';

describe('InputPassword', () => {
  beforeEach(() => {
    document.body.innerHTML = __html__['spec/javascripts/fixtures/input_password.html'];
  });

  it('initially hides the password', () => {
    new InputPassword(DEFAULT_SELECTOR);

    expect('.input-password .icon').toHaveClass('icon-eye');
    expect('.input-password input').toHaveAttr('type', 'password');
  });

  it('shows the password when the user clicks on the eye icon', () => {
    new InputPassword(DEFAULT_SELECTOR);

    $('.input-password .icon-eye').click();

    expect('.input-password .icon').toHaveClass('icon-eye-slash');
    expect('.input-password input').toHaveAttr('type', 'text');
  });

  it('hides the password when the user clicks on the eye slash icon', () => {
    new InputPassword(DEFAULT_SELECTOR);

    $('.input-password .icon-eye-slash').click();


    expect('.input-password .icon').toHaveClass('icon-eye');
    expect('.input-password input').toHaveAttr('type', 'password');
  });
});
```

Template.html


```
<div class="input-group input-password">
  <input type="password" name="current_password" id="current_password"
    class="form-control" required="required" placeholder="Current Password">
  <div class="input-group-append">
    <i class="icon icon-xl icon-eye"></i>
  </div>
</div>
```

Change Password

CURRENT PASSWORD

Current Password 

NEW PASSWORD

New Password 

CONFIRM CANCEL

Home Beginner's Guide

Specs are running \(\^o^\)/

```
21 12 2018 16:48:23.925:INFO [karma-server]: Karma v3.1.4 server started at http://0.0.0.0:9876/
21 12 2018 16:48:23.925:INFO [launcher]: Launching browsers ChromeHeadless with concurrency unlimited
21 12 2018 16:48:23.930:INFO [launcher]: Starting browser ChromeHeadless
21 12 2018 16:48:24.831:INFO [HeadlessChrome 71.0.3578 (Mac OS X 10.13.6)]: Connected on socket buP0fI1KplbRyFwWAAAA with id 11080816

Jasmine
  ✓ is running

InputPassword
  ✓ initially hides the password
  ✓ hides the password when the user clicks on the eye slash icon
  ✓ shows the password when the user clicks on the eye icon

HeadlessChrome 71.0.3578 (Mac OS X 10.13.6): Executed 4 of 4 SUCCESS (0.008 secs / 0.012 secs)
TOTAL: 4 SUCCESS

* Done in 6.30s.
→ app git:(chore/setup-jasmine) x
```

Karma v3.1.4 - connected

Chrome 71.0.3578 (Mac OS X 10.13.6) is idle

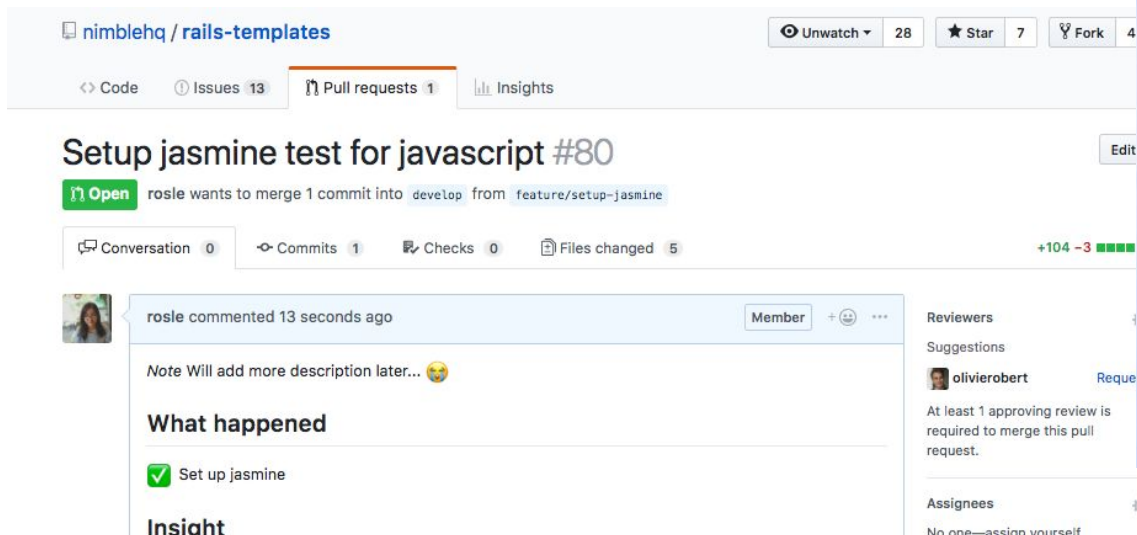
DEBUG

Current Password

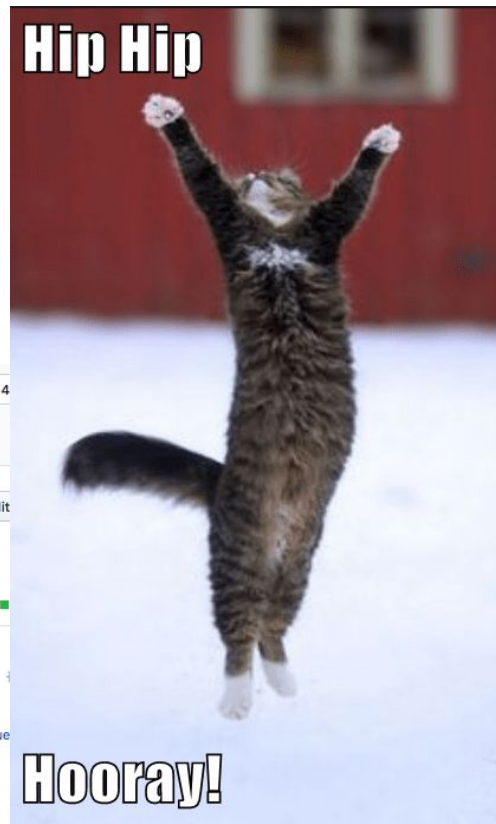
Achievement and Progress

- Improve the template to HTML
- Add the javascript testing with Karma + Jasmine on Rails template:

<https://github.com/nimblehq/rails-templates/pull/80>



The screenshot shows a GitHub pull request interface for the repository 'nimblehq / rails-templates'. The pull request is titled 'Setup jasmine test for javascript #80' and is in the 'Open' state. It shows 1 commit and 5 files changed. A comment from 'rosle' is visible, stating 'Note Will add more description later...'. The pull request has 104 additions and 3 deletions. The interface includes tabs for Code, Issues, Pull requests, and Insights, as well as buttons for Unwatch, Star, Fork, and Edit.



Next steps

- Slim support
- Add jasmine html report for development

Thanks!

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