3/23/2017 | Rails TDD

Ruby on Rails

TDD

BACK TO TRACKS 93% Ruby TDD (/m/9/4309) Rails TDD 94% (/m/9/4310) (/m/ Overview (/m/ Set Up (/m/ Model Specs I (/m/ Model Spec Assignment (/m/ Model Specs II (/m/ Factory Girl Methods (/m/ Running RSpec Tests (/m/ Capybara (/m/ Ouiz I (/m/ Capybara Assignment (/m/The Wall (/m/ Modularizing Capybara (/m/ Routes (/m/Quiz II (/m/ Setting Up Your Testing Fram.. (/m/Testing Controllers

Additional Resources

(/m/

# Capybara

Rails TDD

## **Feature Specs Overview**

When we wrote our model spec tests, our tests covered just the functionality of our model. Sim route specs, we would only be testing the functionality of our controllers or routes. This is a coc application. These spec tests test the functionality of our application as they are organized in our application.

Feature specs are a little different; they represent a user-centric way of testing our application. section of our code base, we test the flow of inputs and outputs as seen by a user.

As far as an end user of your web application is concerned, this is what a feature is. When he ty button(the input), the web page changes and presents him a different view(the output).

Feature specs often span different sections of your code. A feature spec will often traverse thro route, and your model all in one test.

## Capybara

To help us write our feature specs we will be using a tool called *Capybara*. Capybara helps us te how a human would interact with our app (like visiting a URL, clicking a link, typing text into a f

#### Capybara Setup

In this lesson, we are going to continue to build off of our Example 1 from the ModelSpecsII less Add Capybara as a dependency in your gemfile:

Gemfile

```
group :development, :test do
gem 'rspec-rails'
gem 'factory_girl_rails'
gem 'capybara'
end
```

and run dojo\$ bundle install

That's it, you are now all set to use Capybara!

# Create the Users Controller and Route

Lets create a users controller and add routes for us to use with the capybara spec we will be wr

```
dojo$ rails g controller Users new
```

config/routes.rb

resources :users

#### **Running our First Capybara Spec Test**

Now let's create a folder where we can put our feature specs. From the root of your rails project

```
dojo$ mkdir spec/features
dojo$ touch spec/features/register_user_spec.rb
```

From now on whenever we create a new feature spec we will be adding it to our features folder create subfolders within this folder. For example, we can have a folder for admin features and us

spec/features/register\_user\_spec.rb

Ruby TDD

(/m/9/4309)

Rails TDD

94% (/m/9/4310)

93%

Overview

(/m/

Set Un

(/m/ (/m/

(/m/

(/m/

(/m/

(/m/

(/m/

Model Specs I

(/m/ Model Spec Assignment

Model Specs II

(/m/

Factory Girl Methods

(/m/ Running RSpec Tests

Capybara

Ouiz I

(/m/

(/m/ Capybara Assignment

The Wall

Modularizing Capybara

(/m/

Routes Ouiz II

(/m/

(/m/ Setting Up Your Testing Fram...

Testing Controllers

(/m/Additional Resources

#### | Rails TDD

```
require 'rails helper'
 feature "quest user creates an account" do
   scenario "successfully creates a new user account" do
     visit new user path
     fill_in "user_first_name", with: "shane"
     fill_in "user_last_name", with: "chang"
     fill_in "user_email", with: "schang@codingdojo.com"
     click_button "Create User"
     expect(page).to have_content "User successfully created"
   end
 end
Lets run our capybara test
rspec spec/features/register_user_spec.rb
Your output should look like the following:
Terminal Output
 Failures:
   1) guest user creates an account successfully creates a new user account
      Failure/Error: fill_in "user_first_name", with: "shane"
      Capybara::ElementNotFound:
        Unable to find field "user_first_name"
      # ./spec/features/register_user_spec.rb:5:in `block (2 levels) in <top (required)>'
 Finished in 1.01 seconds (files took 2.98 seconds to load)
```

rspec ./spec/features/register\_user\_spec.rb:3 # guest user creates an account successfully creates

That is it, you have run your first capybara spec test!

### **Understanding our First Capybara Spec Test**

We have introduced some new syntax in this capybara spec. All of the following are part of Cap Language).

- feature and scenario are Capybara's version of describe and it respectively. They serve it. Using feature instead of describe lets Rails know that you are writing a capybara spec
- visit navigates to a particular path. You can pass a string or use one of the Rails path he
  - o visit '/blog'

1 example, 1 failure

Failed examples:

- visit blogs\_path
- click\_button will press a button or input[type="submit"]. You can select what button to p
- have\_content asserts that certain text content is present on the page.
- fill\_in will fill in fields for you. You can select what field to fill in using the label text, the
  - fill\_in "Title", with: "I love rails!"
  - fill\_in 'post[title]', with: "I love rails!"

Here's a cheat sheet for Capybara - read more (https://upcase.com/test-driven-rails-resources,

Now lets look at the error we got. We got the error Unable to find field "user\_first\_name" because our users view yet.

#### Adding fields to our view file and @user to users\_controller

Following RESTFUL let's add a form to our new.html.erb file with the fields we specified in our s or the name of the inputs match with the names we provided for our spec test.

/app/views/users/new.html.erb

3/23/2017

BACK TO TRACKS Ruby TDD 93% (/m/9/4309) Rails TDD 94% (/m/9/4310) (/m/ Overview (/m/ Set Up (/m/ Model Specs I (/m/ Model Spec Assignment (/m/ Model Specs II (/m/ Factory Girl Methods (/m/ Running RSpec Tests (/m/ Capybara (/m/ Ouiz I (/m/ Capybara Assignment (/m/ The Wall (/m/ Modularizing Capybara (/m/ Routes (/m/Quiz II (/m/ Setting Up Your Testing Fram... (/m/ Testing Controllers

Additional Resources

(/m/

#### | Rails TDD

```
<h1>Create new User</h1>
  <% if flash[:notice] %>
  <% flash[:notice].each do |note| %>
     <%= note %>
  <% end %>
  <form action = "/users" method = "post">
   <input type = 'hidden' name = "authenticity_token" value = "<%=form_authenticity_token%>">
  <label>First Name</label>
   <input type = "text" name = "user[first_name]" id = "user_first_name">
   <label>Last Name</label>
   <input type="text" name="user[last_name]" id = "user_last_name">
    <label>Email Address</label>
   <input type="text" name="user[email]" id = "user email">
   <input type = "submit" value = "Create User">
  </form>
/app/controllers/users controller.rb
 class UsersController < ApplicationController
   end
  end
```

Run the capybara test again.

This will result in another failure; this time with the message The action 'create' could not be for

What this means is that the test is failing because we haven't specified a *create* method within clicked the button "Create User" which submitted the form which routes us to the create metho

#### Adding a create method

Lets make this test succeed by adding a *create* method to our UsersController.

/app/controllers/users\_controller.rb

```
def create
  @user = User.new(params.require(:user).permit(:first_name, :last_name, :email))
if @user.save
  flash[:notice] = ['User successfully created']
  redirect_to new_user_path
  else
  #errors we need to code later
  end
end
```

Lets run the capybara test again.

You should now see a success message in your terminal. Our capybara test has passed!

Terminal Output

```
Finished in 0.30183 seconds (files took 2.73 seconds to load) 1 example, 0 failures
```

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