How to test my app

Rspec has a nice syntax. However, it's not rails default. But, listen:

I discover that minitest has a Minitest::Spec module providing a rspec-like syntax.

Here the way to go! Or, maybe, just keep minitest syntax...

See Annexe to learn using tests when devise authentication is on the flow...

Natively

You only need to require the module.

```
# any test file
require 'test_helpers'
require 'minitest/spec'
```

That's it!

Choosing between test syntax or spec syntax is a matter of taste. The former tests the validity of assertions; the later require specifications to have expected results.

So:

```
# instead of writing
class MymodelControllerTest < ActionController::TestCase
  test 'successful response to index' do
    get :index
    assert_response :success
  end
end

# you write
describe MymodelController do
  it 'succeed in getting index' do
    get :index
    _.must_respond_with :success
  end
end</pre>
```

I think the main interest is in describe line. No need to explicitely define a class subclassing the right superclass.

A gem simplify the use of Minitest::Specs: minitest-spec-rails . No need to require 'minitest/spec'...

Expectations

```
Remarque: take care to call value(obj).must_xxx rather than obj.must_xxx to avoid issues with threaded tests.
Equivalent syntaxes are expect(obj).must_xxx and _(obj).must_xxx .
value can also receive a block: value { .. }.must_xxx (as expect or _ ).
The expect syntax is attractive but I'm in trouble with the plain english it gives: « expect something must be ... ». I'd
prefer « expect something to be ... » or « expect something does ». Then I may rewrite (not too long)
Minitest::Expectations module to fill my needs:
  module Minitest::Expectations # Monkey patching, put it inside test_helper.rb
    infect_an_assertion :assert_equal, :equals
    infect_an_assertion :assert_not_equal, :do_not_equals
    infect_an_assertion :assert_response, :response_is
    infect_an_assertion :assert_kind_of( klass ), :is_kind_of( klass )
  end
Then spec lines would look like:
  expect(1+1).equals 2
  expect( 1 + 4 ).do_not_equals 2
  expect.response_is :success
```

Perhaps the best way would be to use _ syntax : « _ something must be ... ».

expect(obj).is_kind_of(ActiveRecord::Base)

Defaults

```
value(obj).must_be(operator, expected) # for example, 10.must_be :<, 11</pre>
value(obj).must_be_close_to # the equivalent of assert_in_delta
value(obj).must_be_empty # Fails unless obj.empty?
value(obj).must_be_instance_of(klass) # Fails unless obj.class == klass
value(obj).must_be_kind_of(klass) # Fails unless obj is of class klass or
klass is one of its superclasses.
value(obj).must_be_nil
value(obj).must_be_same_as # tests for true object equality
lambda {}.must_be_silent
value(obj).must_be_within_delta
value(obj).must_be_within_epsilon
value(obj).must_equal(other) # Does a ==/eql? comparison between two objects.
value(obj).must_include(other)
value(obj).must_match(regex) # A regular expression match, e.g.
"hello".must_match /w+/
lambda {}.must_output(stdout, [stderr..]) # The block should have certain
output on stdout or stderr. Set stdout to nil just to check stderr.
lambda {}.must_raise(exception)
value(obj).must_respond_to(message)
value(obj).must_throw(sym)
# The above are all positive valueations but the opposite ones are easy to build
# as in most cases you can switch must with wont. For example:
wont_be, wont_be_empty, wont_be_instance_of, wont_be_kind_of
wont_be_nil, wont_be_same_as, wont_equal,
wont_include, wont_match, wont_respond_to
```

Configure tests so devise authentication let you operate tests..

 \bullet First, complete the monkey patching of class ActiveSupport::TestCase :

• Second, complete your controller tests (or whatever need an authenticated user)

```
# stays_controller_test.rb
class StaysControllerTest < ActionDispatch::IntegrationTest</pre>
 include Devise::Test::IntegrationHelpers
 #-----
 # for devise user
 setup do
   get '/accounts/sign_in'
   sign_in account( :account_01 )
   post account_session_url
   # if you want to test that things are working correctly, uncomment below
   # follow_redirect!
   # assert_response :success
 #-----
 test "the truth" do
   assert true
 end
end
```

• Third, create an account fixture

```
# test/fixtures/accounts.yml
account_01:
   id: 1
   email: mazu@sfr.fr
   encrypted_password: <%= Account.new.send( :password_digest, 'ttttttt' ) %>
```