



# **Vorlesung 9**

# Taskboard

RECAP

Inbox	In Progress	In Review	Complete
		<div>Ein Besucher soll Touren anlegen können, ...</div> <div>Ein Besucher soll Touren nach Kategorie filtern können, ...</div> <div>Ein Anwendung soll über ein einfaches Styling verfügen</div>	<div>Ein Besucher soll Touren anlegen können, ...</div> <div>Ein Besucher soll Touren nach Kategorie filtern können, ...</div> <div>Ein Anwendung soll über ein einfaches Styling verfügen</div>

# Taskboard



# User Story 4

*Ein Nutzer soll sich registrieren  
können*

# RUBYGEMS

- Offizielles Paketsystem für Programmiersprache Ruby
- Stellt folgendes zur Verfügung:
  - Paketformat
  - Werkzeug zur Verwaltung von Paketen
  - Repository für deren Verteilung
- Ermöglicht Verwaltung mehrerer Versionen eines Pakets
- Offizielles Verzeichnis: <http://rubygems.org/>

# RUBYGEMS

**(Rails/Ruby) Anwendung**

**Rubygems**

**Native Pakete**

**Betriebssystem**

# Devise

- Rubygem mit Funktionen zur Nutzerauthentifizierung
- De-facto-Standard für Rails-Applikationen
  - Sehr gute Integration in Rails
- Gem enthält eine eigene kleine Rails-Applikation
  - Controller
  - Views
  - Routen
  - ...

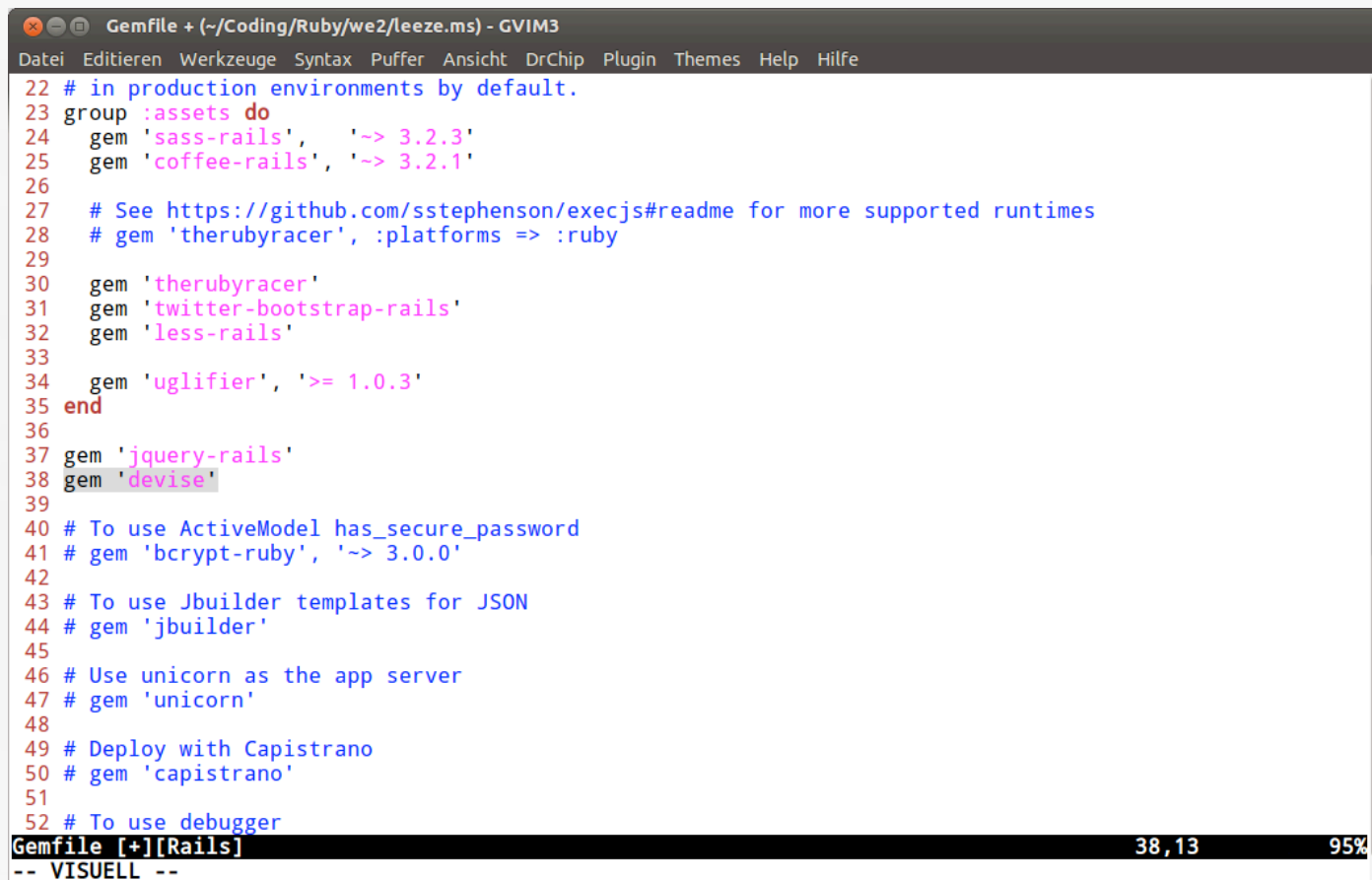
# Devise

- Funktionen:
  - Nutzerregistrierung
  - Versand von Registrierungsbestätigungen
  - Login, Logout
  - „Passwort vergessen“-Funktion
  - Nutzer sperren
  - ...
- Funktionen sind in Modulen umgesetzt
  - Module lassen sich nach Bedarf aktivieren und deaktivieren



# Devise installieren

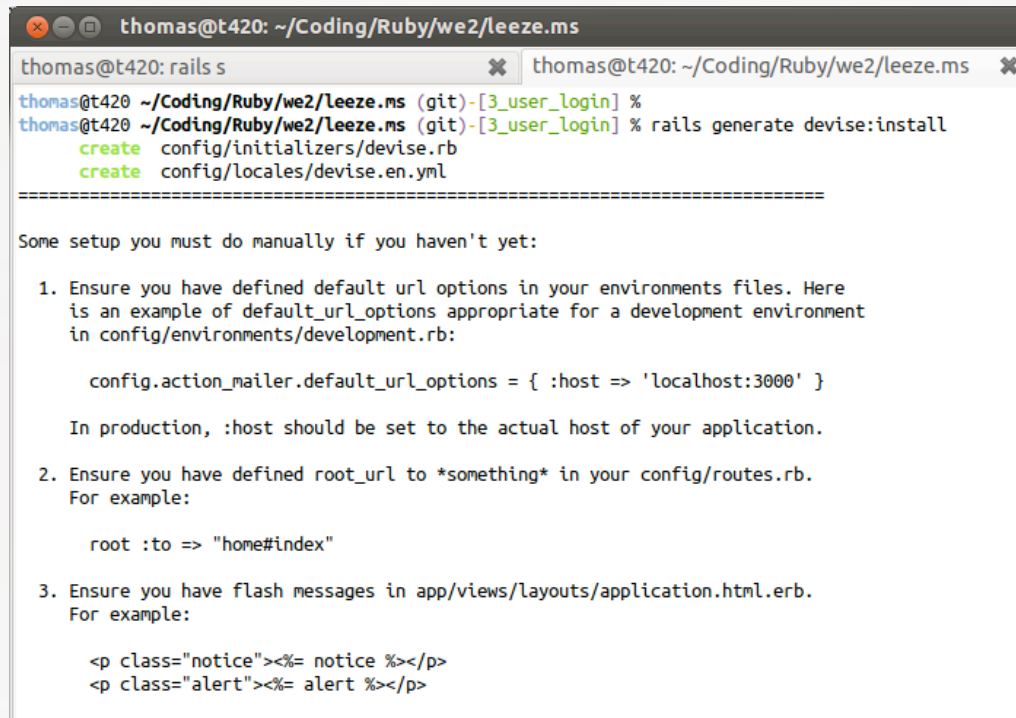
- gem 'devise' ins Gemfile aufnehmen



```
Gemfile + (~/.Coding/Ruby/we2/leeze.ms) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
22 # in production environments by default.
23 group :assets do
24   gem 'sass-rails', '~> 3.2.3'
25   gem 'coffee-rails', '~> 3.2.1'
26
27   # See https://github.com/sstephenson/execjs#readme for more supported runtimes
28   # gem 'therubyracer', :platforms => :ruby
29
30   gem 'therubyracer'
31   gem 'twitter-bootstrap-rails'
32   gem 'less-rails'
33
34   gem 'uglifier', '>= 1.0.3'
35 end
36
37 gem 'jquery-rails'
38 gem 'devise'
39
40 # To use ActiveRecord has_secure_password
41 # gem 'bcrypt-ruby', '~> 3.0.0'
42
43 # To use Jbuilder templates for JSON
44 # gem 'jbuilder'
45
46 # Use unicorn as the app server
47 # gem 'unicorn'
48
49 # Deploy with Capistrano
50 # gem 'capistrano'
51
52 # To use debugger
Gemfile [~][Rails] 38,13 95%
-- VISUELL --
```

# Devise installieren

- \$ bundle install
- \$ rails generate devise:install



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rails generate devise:install
create config/initializers/devise.rb
create config/locales/devise.en.yml

=====

Some setup you must do manually if you haven't yet:

1. Ensure you have defined default url options in your environments files. Here
   is an example of default_url_options appropriate for a development environment
   in config/environments/development.rb:

       config.action_mailer.default_url_options = { :host => 'localhost:3000' }

   In production, :host should be set to the actual host of your application.

2. Ensure you have defined root_url to *something* in your config/routes.rb.
   For example:

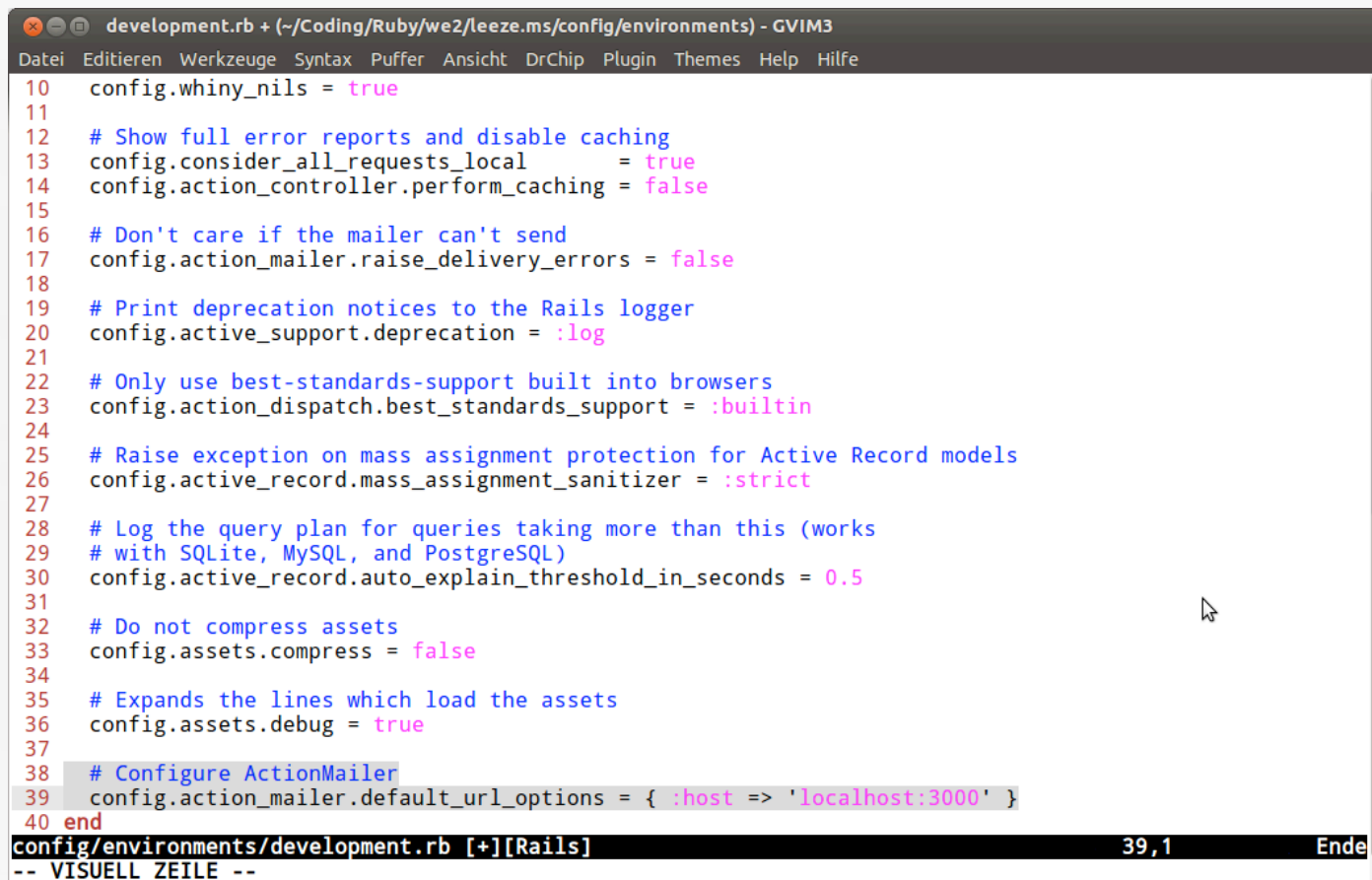
       root :to => "home#index"

3. Ensure you have flash messages in app/views/layouts/application.html.erb.
   For example:

       <p class="notice"><%= notice %></p>
       <p class="alert"><%= alert %></p>
```

# Devise installieren

- config/environments/development.rb anpassen



```
10 config.whiny_nils = true
11
12 # Show full error reports and disable caching
13 config.consider_all_requests_local = true
14 config.action_controller.perform_caching = false
15
16 # Don't care if the mailer can't send
17 config.action_mailer.raise_delivery_errors = false
18
19 # Print deprecation notices to the Rails logger
20 config.active_support.deprecation = :log
21
22 # Only use best-standards-support built into browsers
23 config.action_dispatch.best_standards_support = :builtin
24
25 # Raise exception on mass assignment protection for Active Record models
26 config.active_record.mass_assignment_sanitizer = :strict
27
28 # Log the query plan for queries taking more than this (works
29 # with SQLite, MySQL, and PostgreSQL)
30 config.active_record.auto_explain_threshold_in_seconds = 0.5
31
32 # Do not compress assets
33 config.assets.compress = false
34
35 # Expands the lines which load the assets
36 config.assets.debug = true
37
38 # Configure ActionMailer
39 config.action_mailer.default_url_options = { :host => 'localhost:3000' }
40 end
```

config/environments/development.rb [~][Rails] 39,1 Ende

-- VISUELL ZEILE --

# Devise einrichten

- Devise speichert Nutzer als ActiveRecord-Model
- Erzeugtes Model ist konfigurierbar
- Erstellung eines Devise User-Models:  
\$ rails generate devise User
- Ausführen der erzeugten Migration:  
\$ rake db:migrate

# Devise einrichten



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rails generate devise User
  invoke  active_record
  create   db/migrate/20121213162627_devise_create_users.rb
  create   app/models/user.rb
  invoke   rspec
  create   spec/models/user_spec.rb
  invoke   factory_girl
  create   spec/factories/users.rb
  insert   app/models/user.rb
  route    devise_for :users
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Devise einrichten

- Devise enthält eine Rails-Engine
- Devise-Controller, -Routen und -Views sind in eigener Applikation verfügbar
- Funktionalität muss nicht neu implementiert werden

# Devise einrichten

- \$ rake routes

```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rake routes
      new_user_session GET    /users/sign_in(.:format)  devise/sessions#new
      user_session     POST   /users/sign_in(.:format)  devise/sessions#create
destroy_user_session  DELETE /users/sign_out(.:format) devise/sessions#destroy
      user_password    POST   /users/password(.:format) devise/passwords#create
      new_user_password GET    /users/password/new(.:format) devise/passwords#new
      edit_user_password GET    /users/password/edit(.:format) devise/passwords#edit
                        PUT    /users/password(.:format)  devise/passwords#update
cancel_user_registration GET    /users/cancel(.:format)   devise/registrations#cancel
      user_registration POST   /users(.:format)          devise/registrations#create
      new_user_registration GET    /users/sign_up(.:format)  devise/registrations#new
      edit_user_registration GET    /users/edit(.:format)     devise/registrations#edit
                        PUT    /users(.:format)          devise/registrations#update
                        DELETE /users(.:format)          devise/registrations#destroy
      tours            GET    /tours(.:format)          tours#index
                        POST   /tours(.:format)          tours#create
      new_tour         GET    /tours/new(.:format)      tours#new
      edit_tour        GET    /tours/:id/edit(.:format) tours#edit
      tour            GET    /tours/:id(.:format)      tours#show
                        PUT    /tours/:id(.:format)      tours#update
                        DELETE /tours/:id(.:format)      tours#destroy
      category_tours  GET    /:category_id(.:format)   tours#index
      root            /                                tours#index
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Story 4: Nutzerregistrierung

- Unter `http://localhost:3000/users/sign_up` stellt Devise ein Registrierungsformular bereit
- Registrierung funktioniert bereits!
- Daher: Integration Test für dieses Formular schreiben



# Story 4: Nutzerregistrierung

The screenshot shows a web browser window with the address bar at `localhost:3000/users/sign_up`. The page title is 'LeezeMs'. The browser's tab bar shows several open tabs: 'Abonnieren ...', 'JS-Test', '(864e5));docum...', 'performance - I...', 'little-scale: BAS...', and 'arsduo/koala - ...'. The browser's bookmark bar shows 'Andere Lesezeichen'.

The web application has a navigation bar with the following links: 'LeezeMs', 'Radtour', 'Mountainbiketour', 'Radwandern', 'My Category', and 'My Category'.

The main content area is titled 'Sign up'. It contains the following form elements:

- A sidebar on the left with the heading 'SIDEBAR' and three links: 'Link1', 'Link2', and 'Link3'.
- A form with three input fields: 'Email', 'Password', and 'Password confirmation'.
- A 'Sign up' button.
- Links for 'Sign in' and 'Forgot your password?'.

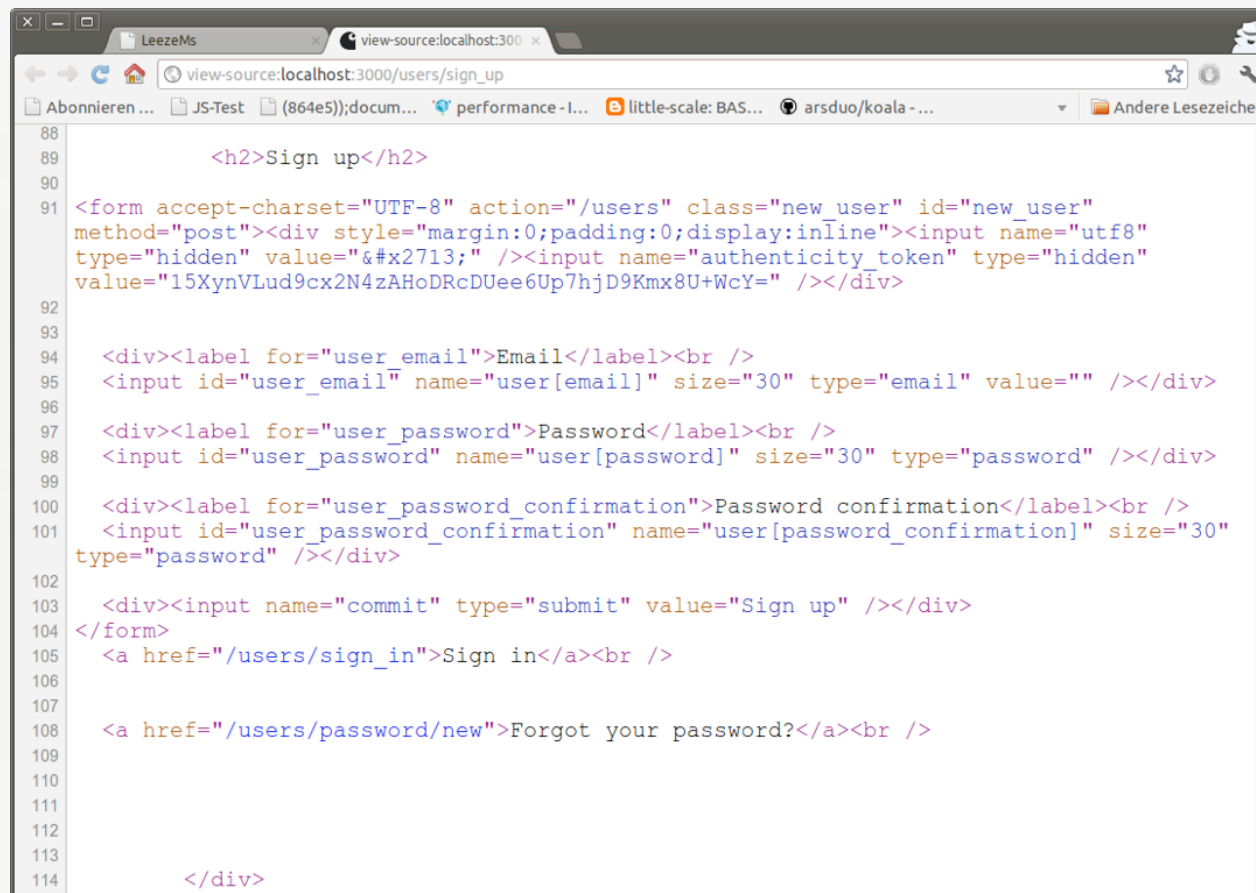
The footer of the page contains the text '© Company 2012'.

# Story 4: Integration Test

- Der Integration Test könnte so ablaufen:
  - Klicke auf Link „Registrieren“
  - Fülle Formular aus
  - Klicke auf Button „Registrieren“
  - Es sollte ein Nutzer erstellt werden
  - Nutzer sollte eingeloggt sein
- Hierfür brauchen wir die Namen der Formularfelder und der Buttons

# Story 4: Integration Test

- Quelltext der Registrierungsseite:



```
88      <h2>Sign up</h2>
89
90      <form accept-charset="UTF-8" action="/users" class="new_user" id="new_user"
91      method="post"><div style="margin:0;padding:0;display:inline"><input name="utf8"
92      type="hidden" value="&#x2713;" /><input name="authenticity_token" type="hidden"
93      value="15XynVLud9cx2N4zAHoDRcDUee6Up7hjD9Kmx8U+WcY=" /></div>
94
95      <div><label for="user_email">Email</label><br />
96      <input id="user_email" name="user[email]" size="30" type="email" value="" /></div>
97
98      <div><label for="user_password">Password</label><br />
99      <input id="user_password" name="user[password]" size="30" type="password" /></div>
100
101      <div><label for="user_password_confirmation">Password confirmation</label><br />
102      <input id="user_password_confirmation" name="user[password_confirmation]" size="30"
103      type="password" /></div>
104
105      <div><input name="commit" type="submit" value="Sign up" /></div>
106    </form>
107    <a href="/users/sign_in">Sign in</a><br />
108
109    <a href="/users/password/new">Forgot your password?</a><br />
110
111
112
113
114  </div>
```

# Story 4: Integration Test

## ● Resultierender Test:

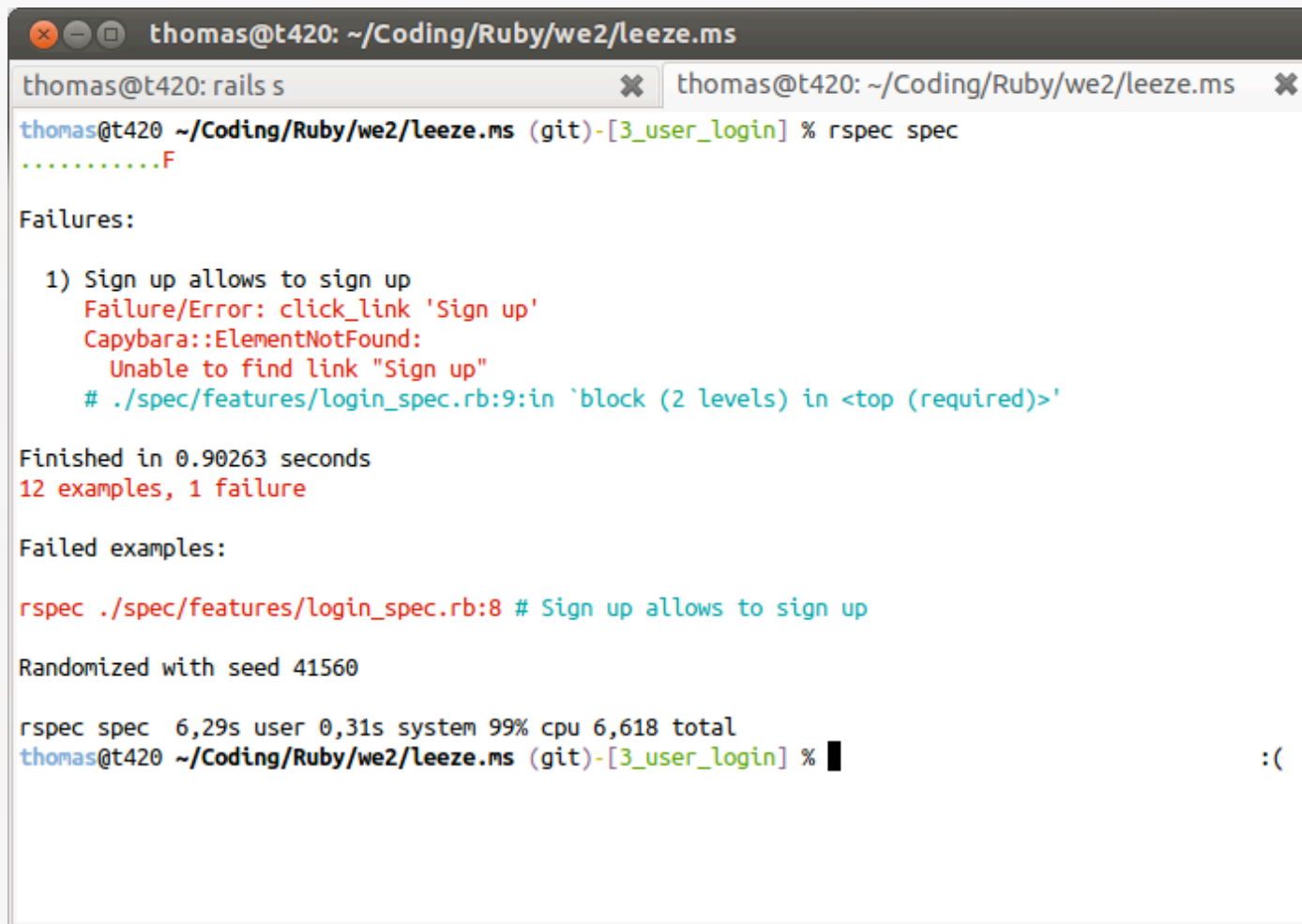
```
login_spec.rb + (~/.Coding/Ruby/we2/leeze.ms/spec/features) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

1 require 'spec_helper'
2
3 describe 'Sign up' do
4   before(:each) do
5     visit root_path
6   end
7
8   it 'allows to sign up' do
9     click_link 'Sign up'
10    fill_in "user_email", with: 'thomas.hollstegge@zweitag.de'
11    fill_in "user_password", with: 'hackme!!'
12    fill_in "user_password_confirmation", with: 'hackme!!'
13
14    expect { click_button 'Sign up' }.to change { User.count }.by(1)
15
16    page.should have_content 'Welcome, thomas.hollstegge@zweitag.de'
17  end
18 end
19
```

~  
~  
~  
~  
~  
~  
~  
~  
~

spec/features/login\_spec.rb [ + ][ Rails ] 19,0-1 Alles

# Story 4: Integration Test



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....F

Failures:

  1) Sign up allows to sign up
     Failure/Error: click_link 'Sign up'
     Capybara::ElementNotFound:
       Unable to find link "Sign up"
     # ./spec/features/login_spec.rb:9:in `block (2 levels) in <top (required)>'

Finished in 0.90263 seconds
12 examples, 1 failure

Failed examples:

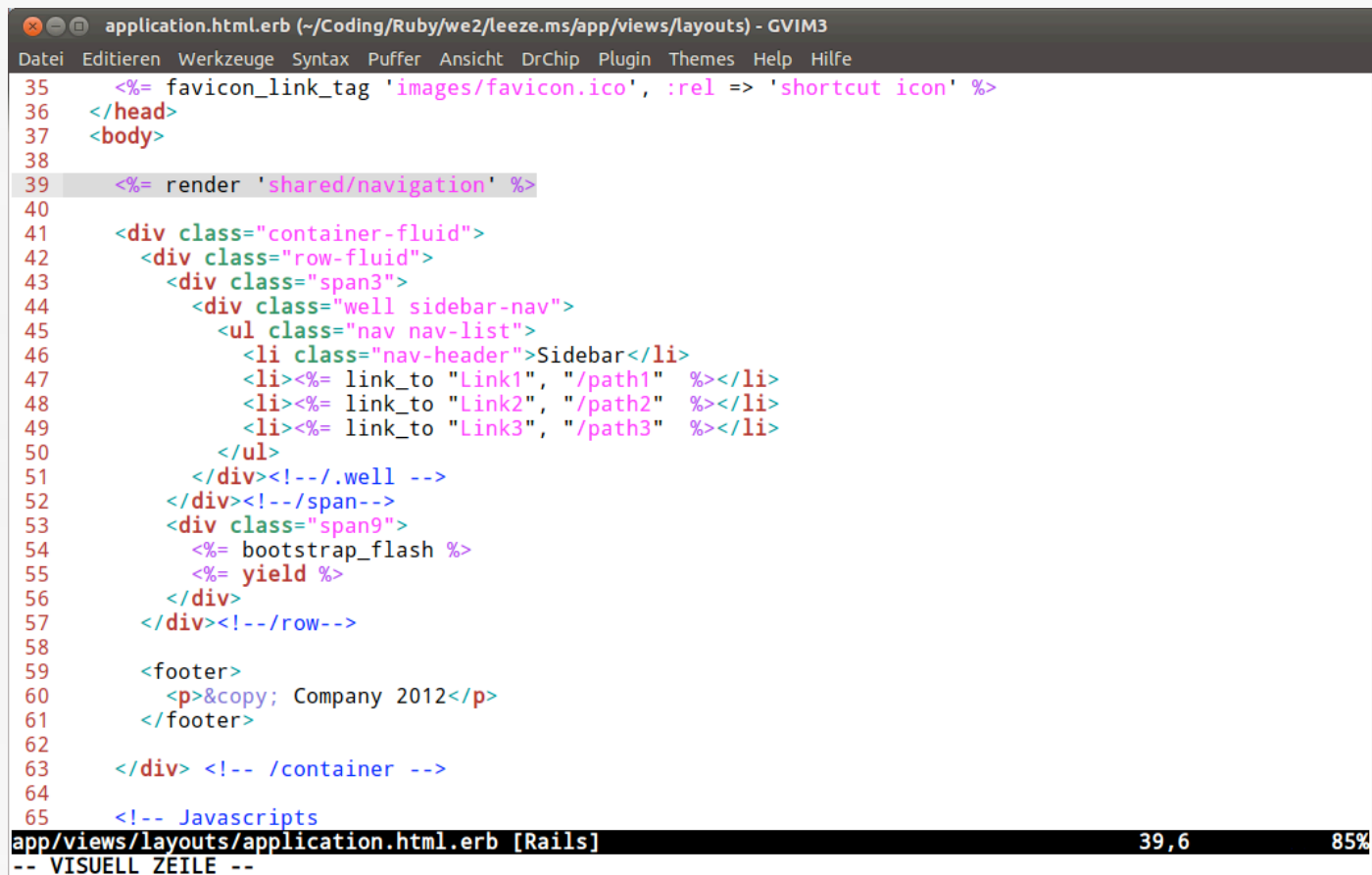
rspec ./spec/features/login_spec.rb:8 # Sign up allows to sign up

Randomized with seed 41560

rspec spec 6,29s user 0,31s system 99% cpu 6,618 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % █
```

# Story 4: Integration Test

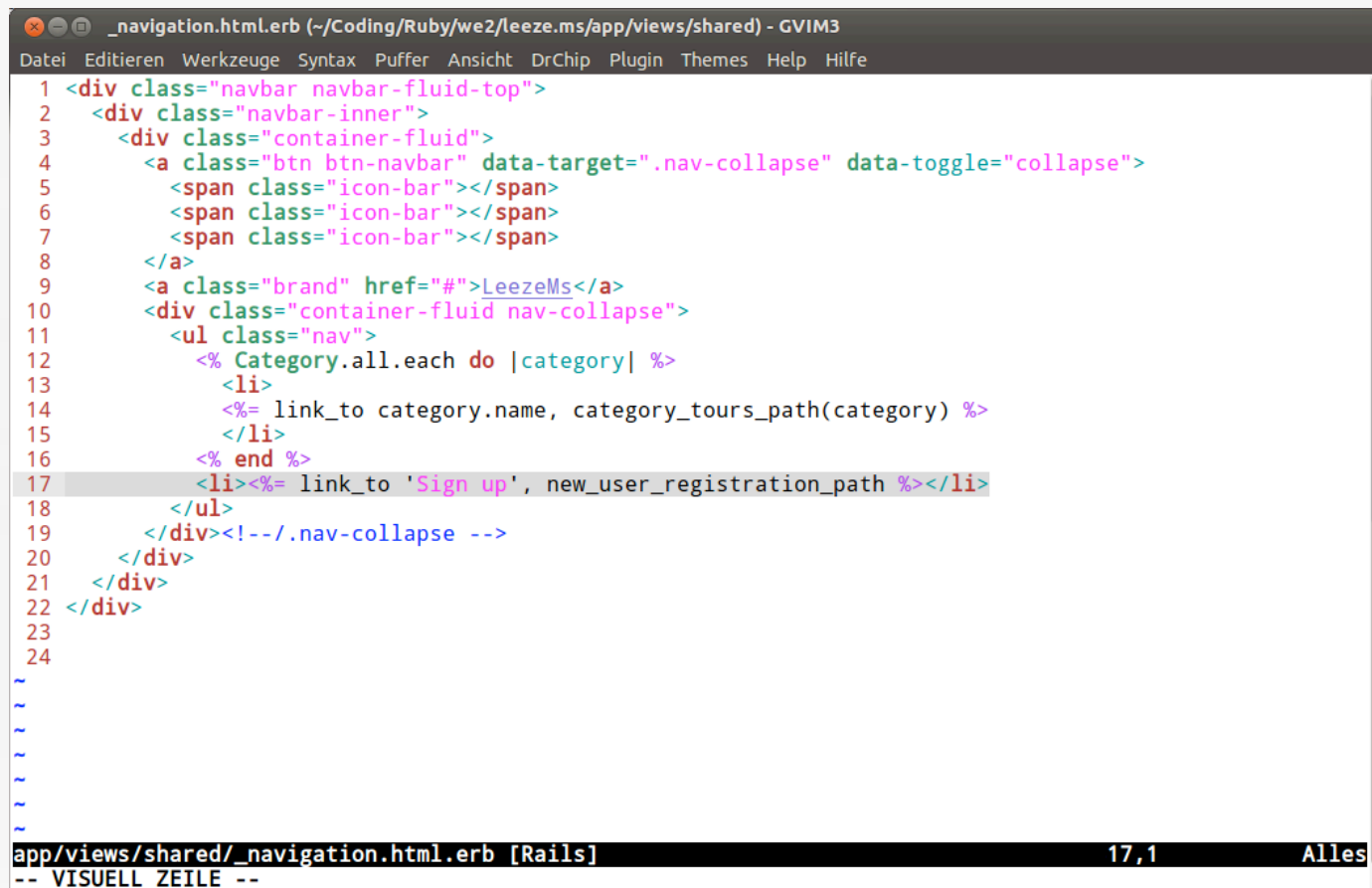
- Schritt 1: Navigation in ein Partial auslagern



```
application.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/layouts) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
35 <%= favicon_link_tag 'images/favicon.ico', :rel => 'shortcut icon' %>
36 </head>
37 <body>
38
39 <%= render 'shared/navigation' %>
40
41 <div class="container-fluid">
42   <div class="row-fluid">
43     <div class="span3">
44       <div class="well sidebar-nav">
45         <ul class="nav nav-list">
46           <li class="nav-header">Sidebar</li>
47           <li><%= link_to "Link1", "/path1" %></li>
48           <li><%= link_to "Link2", "/path2" %></li>
49           <li><%= link_to "Link3", "/path3" %></li>
50         </ul>
51       </div><!-- /.well -->
52     </div><!-- /span -->
53     <div class="span9">
54       <%= bootstrap_flash %>
55       <%= yield %>
56     </div>
57   </div><!-- /row -->
58
59   <footer>
60     <p>&copy; Company 2012</p>
61   </footer>
62
63 </div> <!-- /container -->
64
65 <!-- Javascripts
app/views/layouts/application.html.erb [Rails] 39,6 85%
-- VISUELL ZEILE --
```

# Story 4: Integration Test

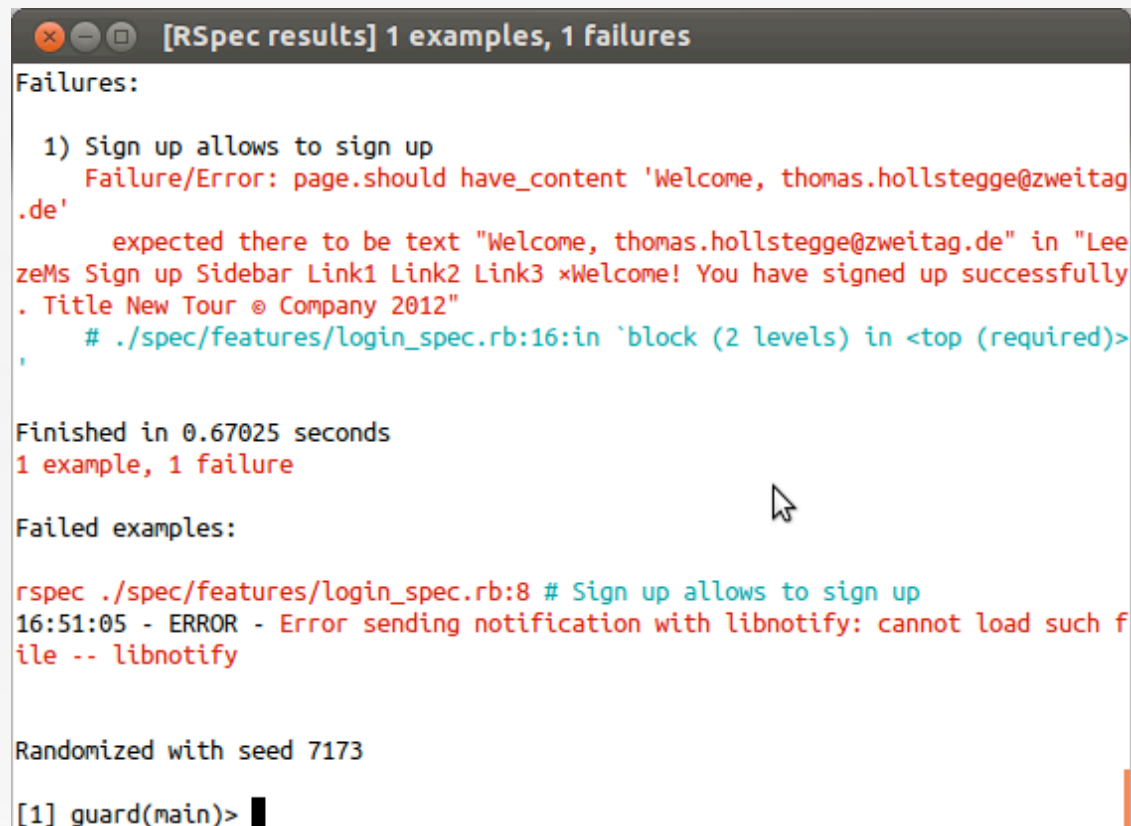
- Schritt 2: Registrierungs-Link einbauen



```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
1 <div class="navbar navbar-fluid-top">
2   <div class="navbar-inner">
3     <div class="container-fluid">
4       <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5         <span class="icon-bar"></span>
6         <span class="icon-bar"></span>
7         <span class="icon-bar"></span>
8       </a>
9       <a class="brand" href="#">LeezeMs</a>
10      <div class="container-fluid nav-collapse">
11        <ul class="nav">
12          <% Category.all.each do |category| %>
13            <li>
14              <%= link_to category.name, category_tours_path(category) %>
15            </li>
16          <% end %>
17          <li><%= link_to 'Sign up', new_user_registration_path %></li>
18        </ul>
19      </div><!--/.nav-collapse -->
20    </div>
21  </div>
22</div>
23
24
~
~
~
~
~
~
app/views/shared/_navigation.html.erb [Rails] 17,1 Alles
-- VISUELL ZEILE --
```

# Story 4: Integration Test

- Tests ausführen: `$ rspec spec`



```
[RSpec results] 1 examples, 1 failures
Failures:

  1) Sign up allows to sign up
     Failure/Error: page.should have_content 'Welcome, thomas.hollstegge@zweitag.de'
       expected there to be text "Welcome, thomas.hollstegge@zweitag.de" in "Lee
zeMs Sign up Sidebar Link1 Link2 Link3 xWelcome! You have signed up successfully
. Title New Tour © Company 2012"
       # ./spec/features/login_spec.rb:16:in `block (2 levels) in <top (required)>'

Finished in 0.67025 seconds
1 example, 1 failure

Failed examples:

rspec ./spec/features/login_spec.rb:8 # Sign up allows to sign up
16:51:05 - ERROR - Error sending notification with libnotify: cannot load such f
ile -- libnotify

Randomized with seed 7173

[1] guard(main)> █
```

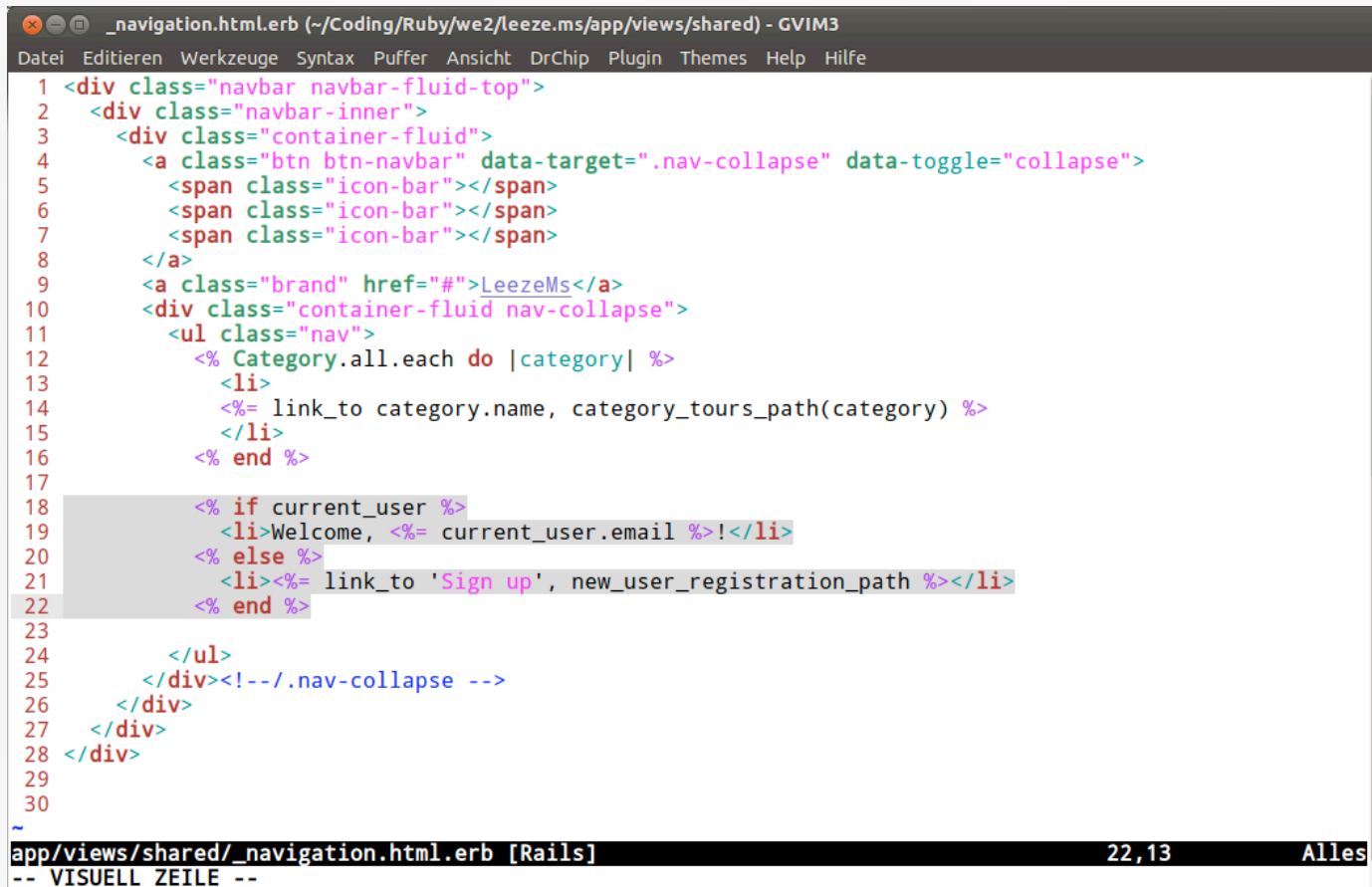


# Story 4: Integration Test

- Devise stellt eine `current_user` Methode bereit
- Nutzer eingeloggt  $\Leftrightarrow$  `current_user` enthält User-Instanz
- Nutzer nicht eingeloggt  $\Leftrightarrow$  `current_user == nil`
- Daher: Falls `current_user` gesetzt ist, zeige die Mailadresse an. Falls nicht, zeige einen Registrierungs-Link an

# Story 4: Integration Test

- Schritt 3: Mailadresse des Nutzers anzeigen

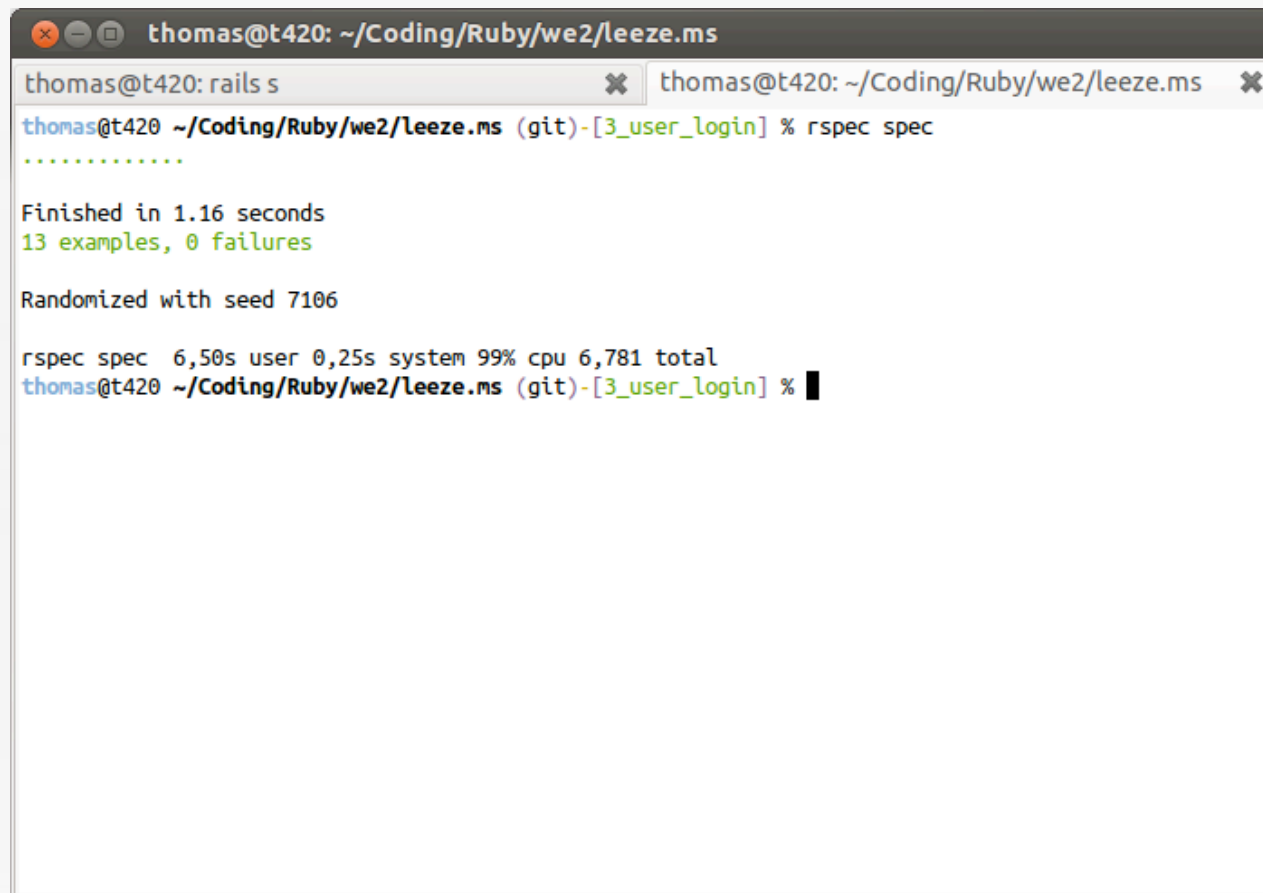


```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

1 <div class="navbar navbar-fluid-top">
2   <div class="navbar-inner">
3     <div class="container-fluid">
4       <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5         <span class="icon-bar"></span>
6         <span class="icon-bar"></span>
7         <span class="icon-bar"></span>
8       </a>
9       <a class="brand" href="#">LeezeMs</a>
10      <div class="container-fluid nav-collapse">
11        <ul class="nav">
12          <% Category.all.each do |category| %>
13            <li>
14              <%= link_to category.name, category_tours_path(category) %>
15            </li>
16          <% end %>
17
18          <% if current_user %>
19            <li>Welcome, <%= current_user.email %>!</li>
20          <% else %>
21            <li><%= link_to 'Sign up', new_user_registration_path %></li>
22          <% end %>
23
24        </ul>
25      </div><!--/.nav-collapse -->
26    </div>
27  </div>
28</div>
29
30
~
app/views/shared/_navigation.html.erb [Rails] 22,13 Alles
-- VISUELL ZEILE --
```

# Story 4: Integration Test

- Tests ausführen:



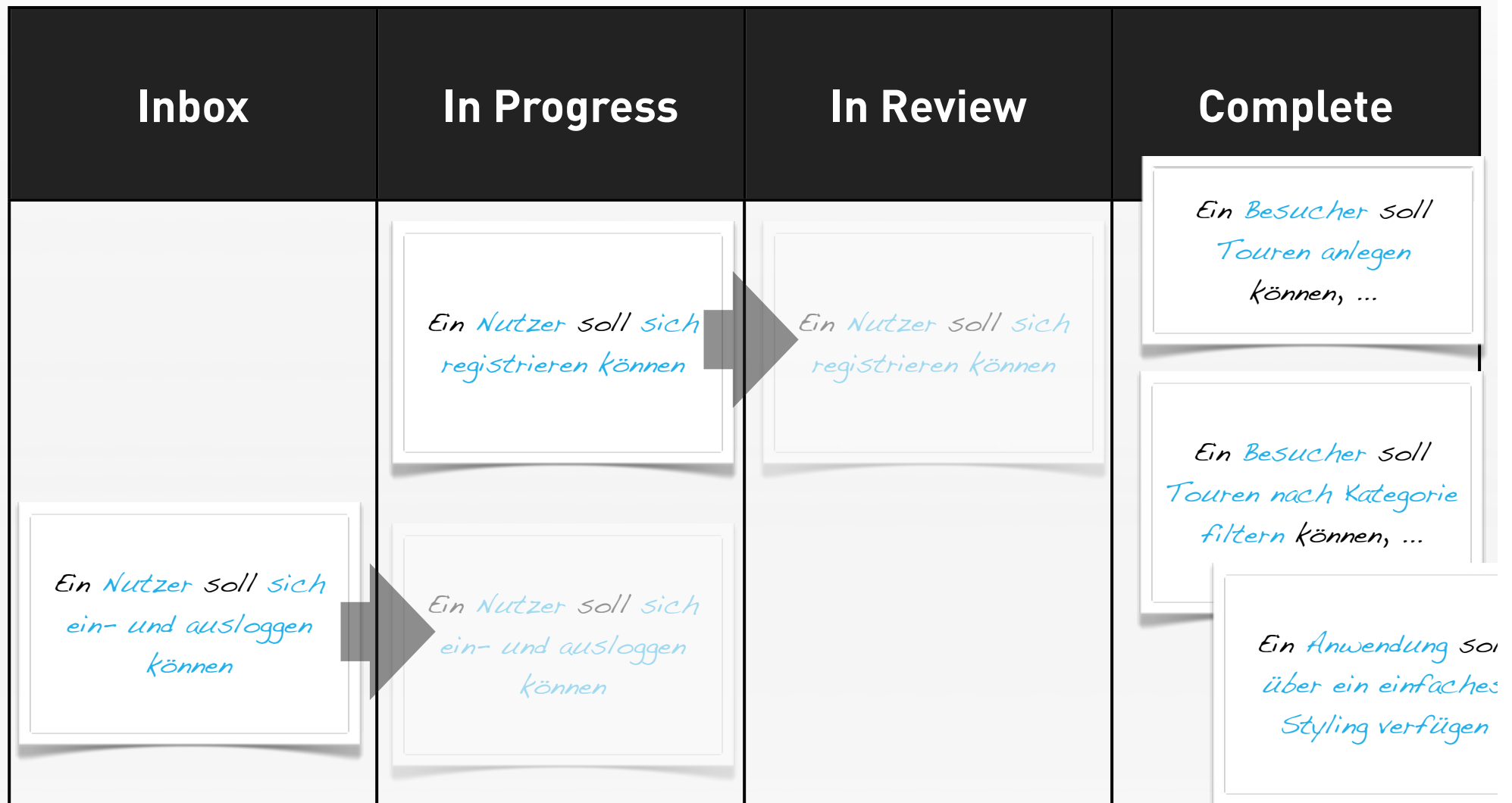
```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

Finished in 1.16 seconds
13 examples, 0 failures

Randomized with seed 7106

rspec spec 6,50s user 0,25s system 99% cpu 6,781 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Taskboard



# User Story 5

*Ein Nutzer soll sich ein- und ausloggen können.*

**Integration-Test:**

Ein Nutzer soll sich einloggen können.

# Story 5: Einloggen

- Idee für einen Integration Test:
  - Erstelle einen Nutzer in der Datenbank
  - Klicke auf Link „Einloggen“
  - Gebe Nutzerdaten ein
  - Klicke auf Button „Einloggen“
  - Nutzer sollte eingeloggt sein
- Zur Erstellung von Test-Nutzern brauchen wir eine Factory
  - --> Hierfür nutzen wir `factory_girl`

# Story 5: Einloggen

- Schritt 1: User-Factory anlegen:



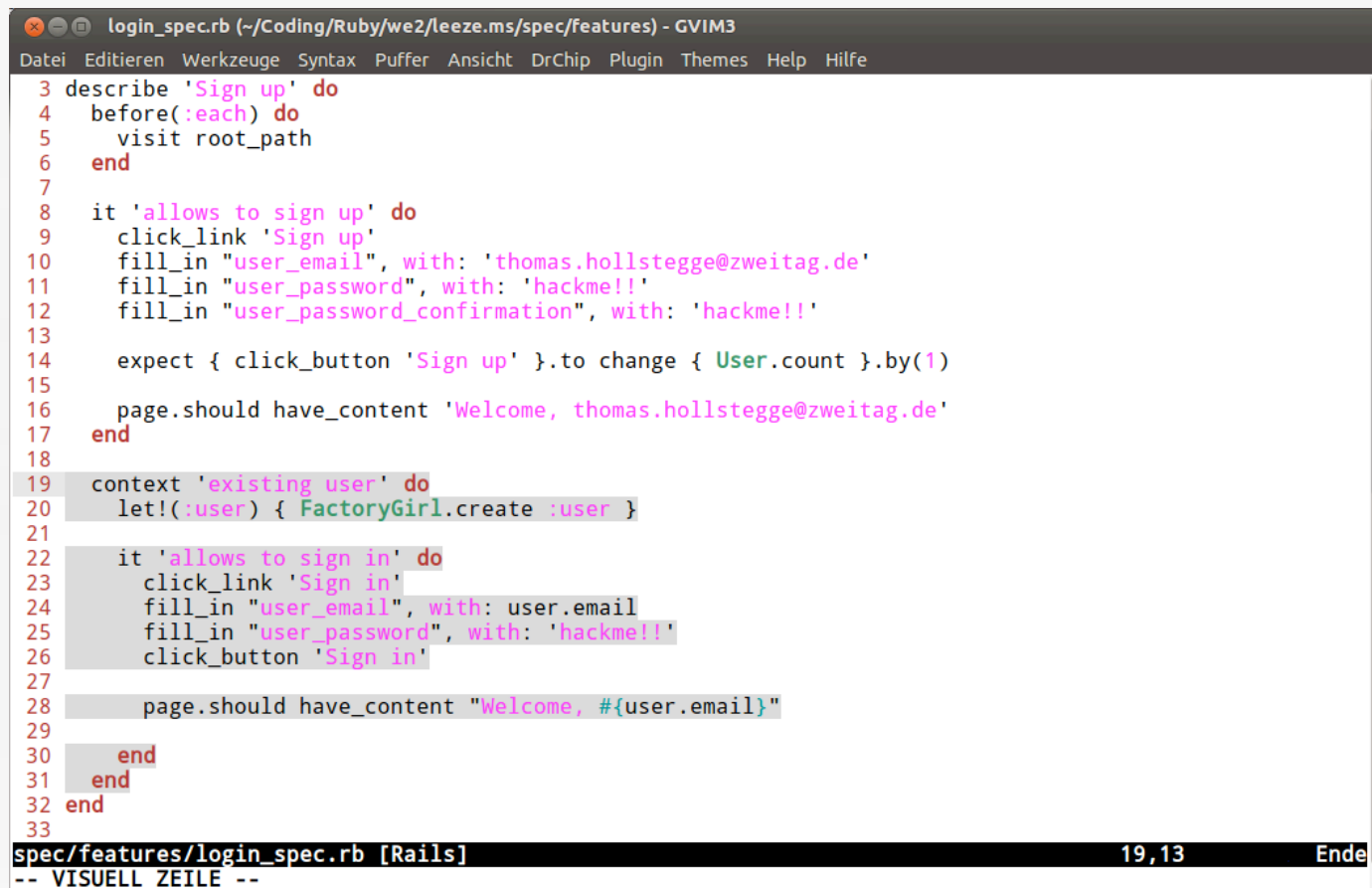
The screenshot shows a VIM3 editor window with the title bar "users.rb (~/.Coding/Ruby/we2/leeze.ms/spec/factories) - GVIM3". The menu bar includes "Datei", "Editieren", "Werkzeuge", "Syntax", "Puffer", "Ansicht", "DrChip", "Plugin", "Themes", "Help", and "Hilfe". The code is as follows:

```
1 # Read about factories at https://github.com/thoughtbot/factory_girl
2
3 FactoryGirl.define do
4   factory :user do
5     email { Faker::Internet.email }
6     password 'hackme!!'
7     password_confirmation 'hackme!!'
8   end
9 end
```

The status bar at the bottom shows "spec/factories/users.rb [Rails]", "1,1", and "Alles".

# Story 5: Einloggen

- Schritt 2: Test schreiben



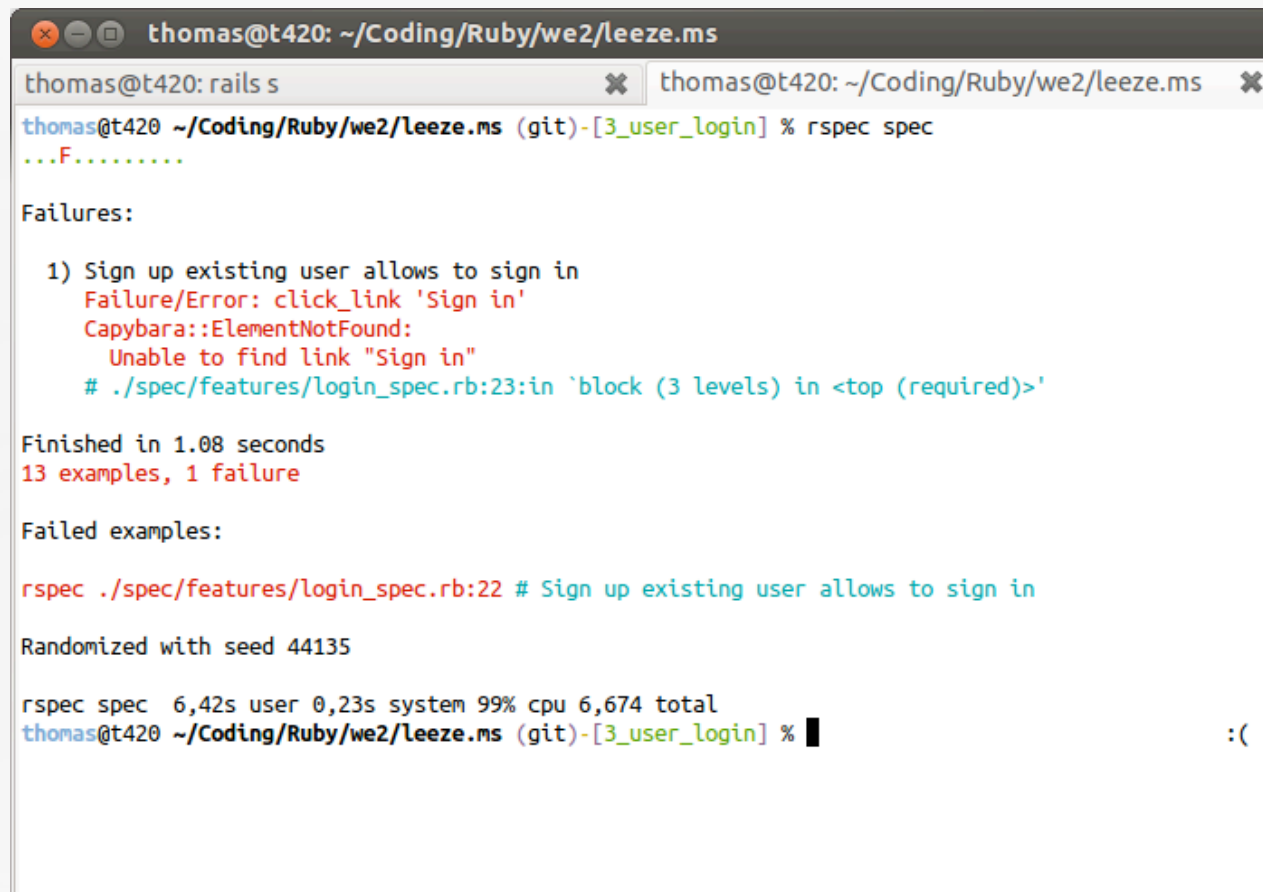
```
login_spec.rb (~/.Coding/Ruby/we2/leeze.ms/spec/features) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

3 describe 'Sign up' do
4   before(:each) do
5     visit root_path
6   end
7
8   it 'allows to sign up' do
9     click_link 'Sign up'
10    fill_in "user_email", with: 'thomas.hollstegge@zweitag.de'
11    fill_in "user_password", with: 'hackme!!'
12    fill_in "user_password_confirmation", with: 'hackme!!'
13
14    expect { click_button 'Sign up' }.to change { User.count }.by(1)
15
16    page.should have_content 'Welcome, thomas.hollstegge@zweitag.de'
17  end
18
19  context 'existing user' do
20    let(:user) { FactoryGirl.create :user }
21
22    it 'allows to sign in' do
23      click_link 'Sign in'
24      fill_in "user_email", with: user.email
25      fill_in "user_password", with: 'hackme!!'
26      click_button 'Sign in'
27
28      page.should have_content "Welcome, #{user.email}"
29    end
30  end
31 end
32
33 spec/features/login_spec.rb [Rails] 19,13 Ende
-- VISUELL ZEILE --
```



# Story 5: Einloggen

- Tests ausführen:



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
...F.....

Failures:

  1) Sign up existing user allows to sign in
     Failure/Error: click_link 'Sign in'
     Capybara::ElementNotFound:
       Unable to find link "Sign in"
     # ./spec/features/login_spec.rb:23:in `block (3 levels) in <top (required)>'

Finished in 1.08 seconds
13 examples, 1 failure

Failed examples:

rspec ./spec/features/login_spec.rb:22 # Sign up existing user allows to sign in

Randomized with seed 44135

rspec spec 6.42s user 0.23s system 99% cpu 6.674 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

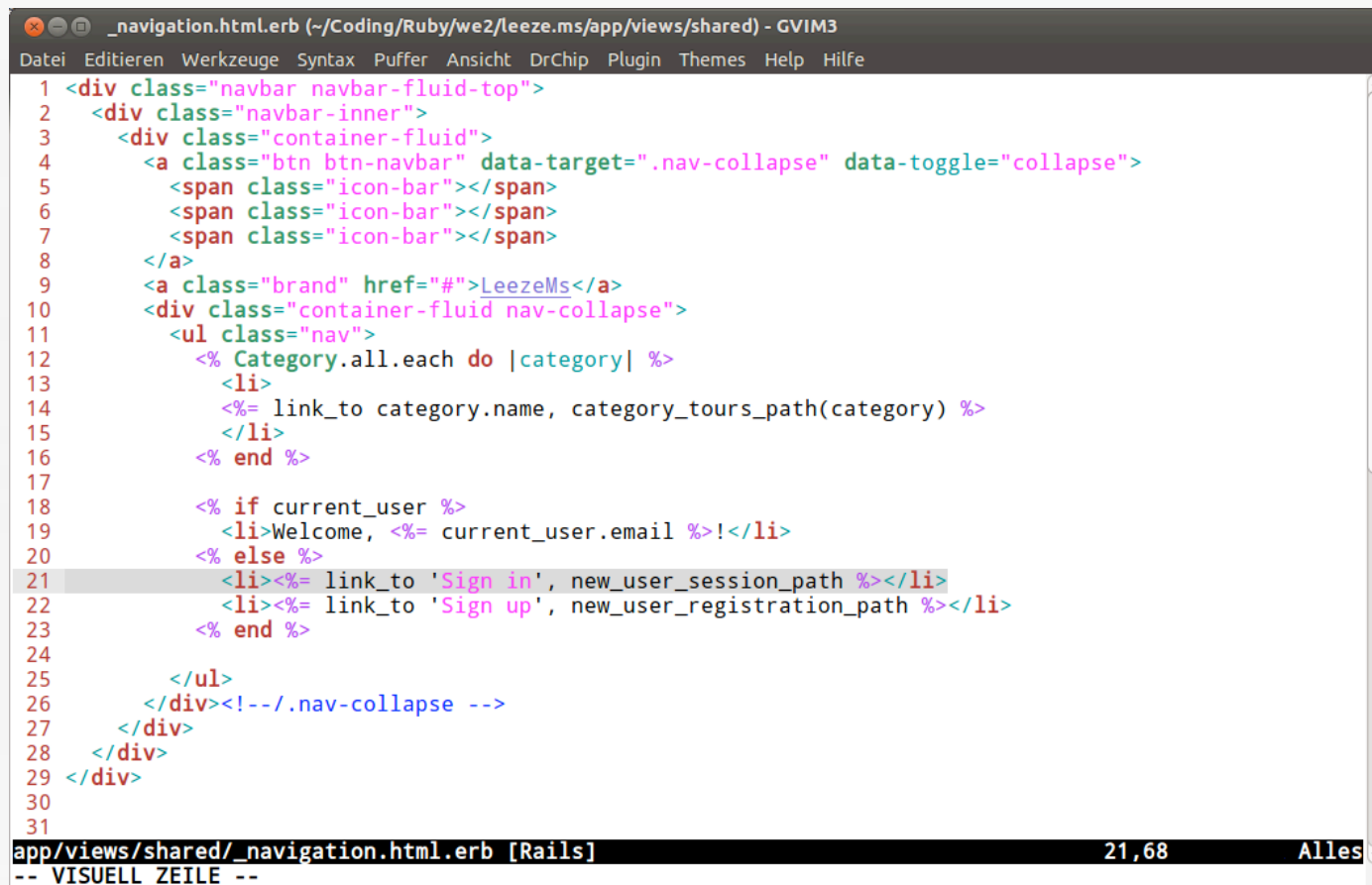
# Devise einrichten

- \$ rake routes

```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rake routes
      new_user_session GET    /users/sign_in(.:format)  devise/sessions#new
      user_session     POST   /users/sign_in(.:format)  devise/sessions#create
      destroy_user_session DELETE /users/sign_out(.:format) devise/sessions#destroy
      user_password     POST   /users/password(.:format) devise/passwords#create
      new_user_password GET    /users/password/new(.:format) devise/passwords#new
      edit_user_password GET    /users/password/edit(.:format) devise/passwords#edit
                        PUT    /users/password(.:format)  devise/passwords#update
      cancel_user_registration GET    /users/cancel(.:format)  devise/registrations#cancel
      user_registration POST   /users(.:format)          devise/registrations#create
      new_user_registration GET    /users/sign_up(.:format)  devise/registrations#new
      edit_user_registration GET    /users/edit(.:format)     devise/registrations#edit
                        PUT    /users(.:format)          devise/registrations#update
                        DELETE /users(.:format)          devise/registrations#destroy
      tours             GET    /tours(.:format)          tours#index
                        POST   /tours(.:format)          tours#create
      new_tour          GET    /tours/new(.:format)      tours#new
      edit_tour         GET    /tours/:id/edit(.:format) tours#edit
      tour             GET    /tours/:id(.:format)      tours#show
                        PUT    /tours/:id(.:format)      tours#update
                        DELETE /tours/:id(.:format)      tours#destroy
      category_tours GET    /:category_id(.:format)   tours#index
      root             /                                     tours#index
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Story 5: Einloggen

- Login-Link in Navigation einbauen

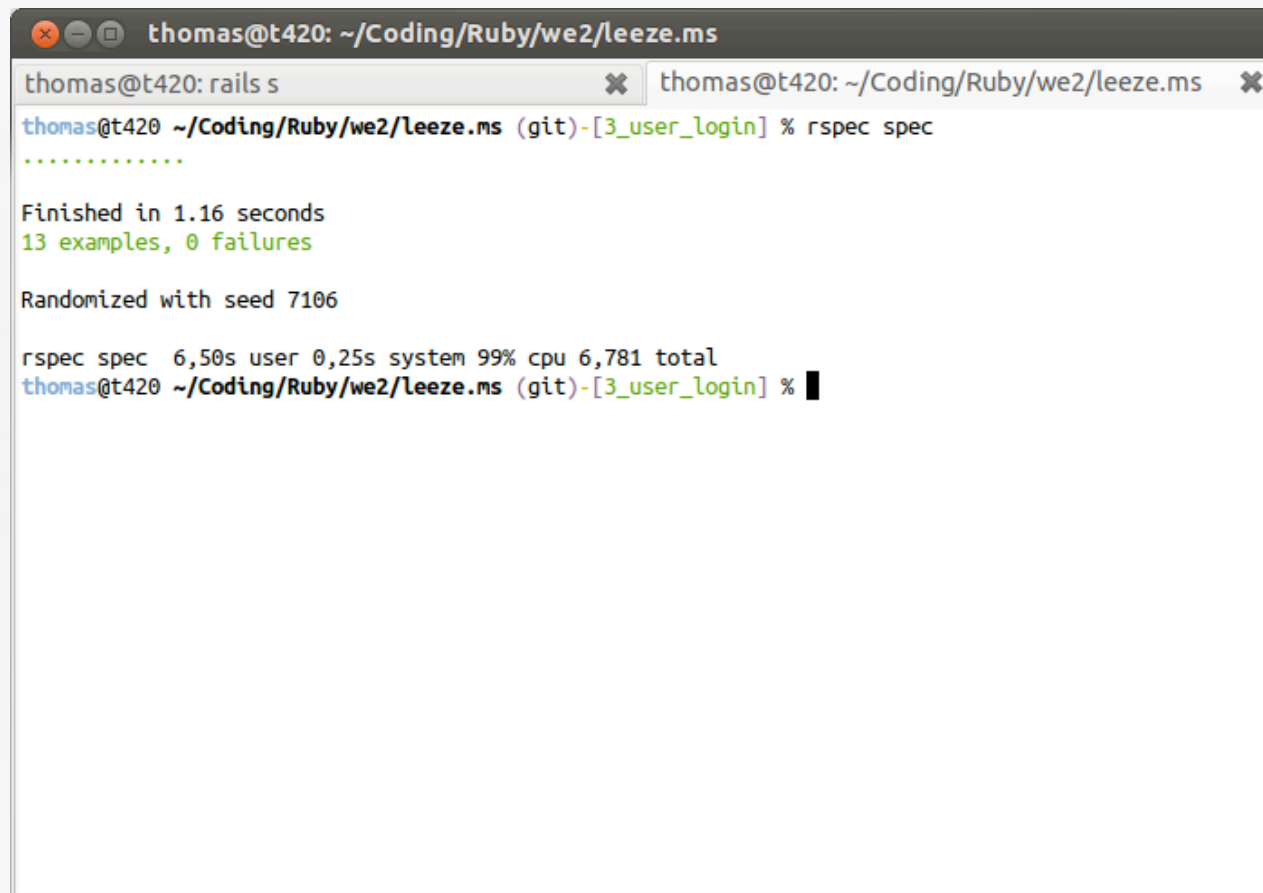


```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

1 <div class="navbar navbar-fluid-top">
2   <div class="navbar-inner">
3     <div class="container-fluid">
4       <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5         <span class="icon-bar"></span>
6         <span class="icon-bar"></span>
7         <span class="icon-bar"></span>
8       </a>
9       <a class="brand" href="#">LeezeMs</a>
10      <div class="container-fluid nav-collapse">
11        <ul class="nav">
12          <% Category.all.each do |category| %>
13            <li>
14              <%= link_to category.name, category_tours_path(category) %>
15            </li>
16          <% end %>
17
18          <% if current_user %>
19            <li>Welcome, <%= current_user.email %>!</li>
20          <% else %>
21            <li><%= link_to 'Sign in', new_user_session_path %></li>
22            <li><%= link_to 'Sign up', new_user_registration_path %></li>
23          <% end %>
24        </ul>
25      </div><!--/.nav-collapse -->
26    </div>
27  </div>
28 </div>
29 </div>
30
31
app/views/shared/_navigation.html.erb [Rails] 21,68 Alles
-- VISUELL ZEILE --
```

# Story 5: Einloggen

- Tests ausführen

A terminal window titled 'thomas@t420: ~/Coding/Ruby/we2/leeze.ms' showing the output of running 'rspec spec'. The output indicates that the tests passed successfully. The terminal text is as follows:

```
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

Finished in 1.16 seconds
13 examples, 0 failures

Randomized with seed 7106

rspec spec 6,50s user 0,25s system 99% cpu 6,781 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# User Story 5

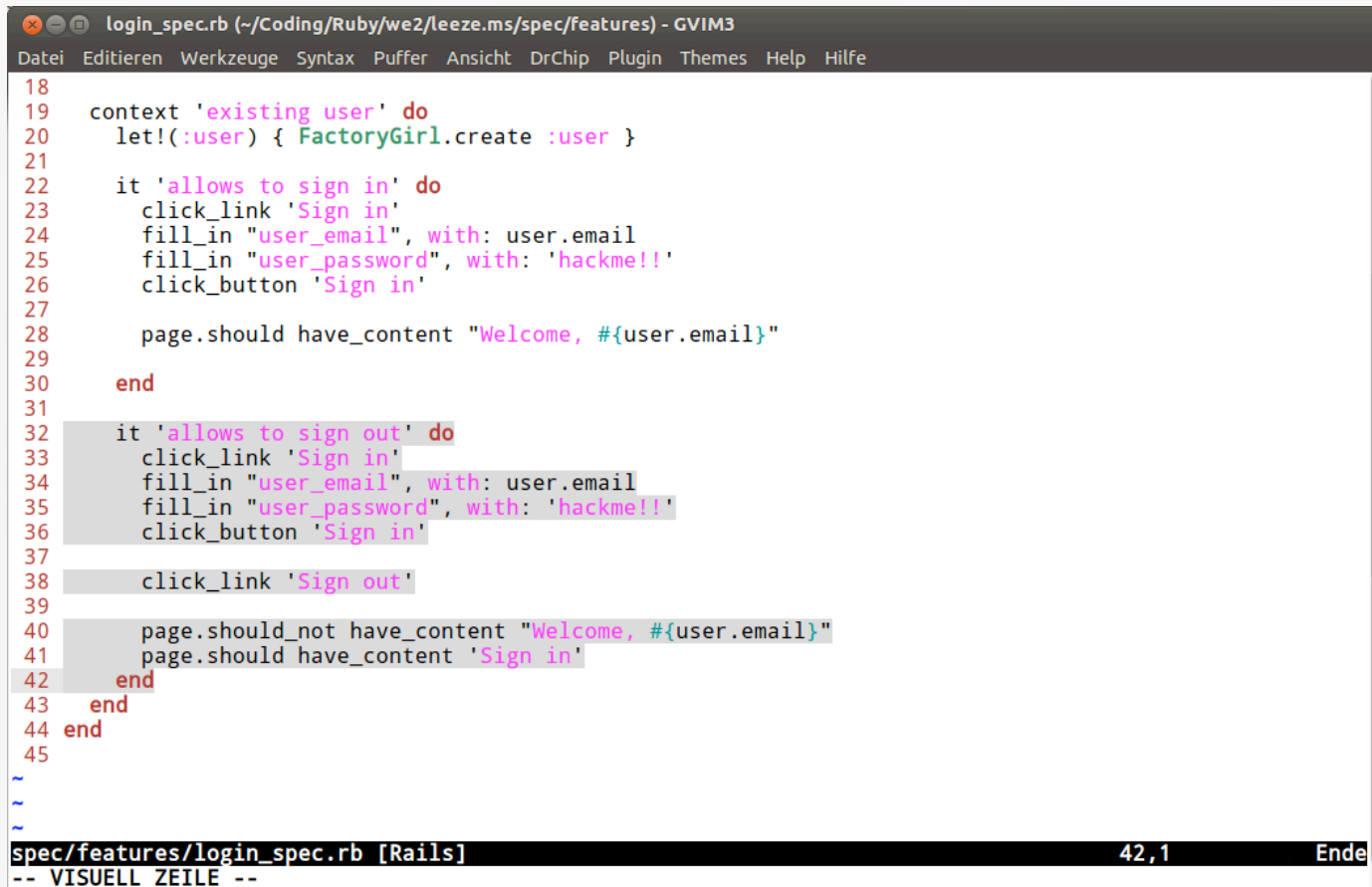
*Ein Nutzer soll sich ein- und ausloggen können.*

**Integration-Test:**

Ein Nutzer soll sich ausloggen können.

# Story 5: Ausloggen

- Test schreiben

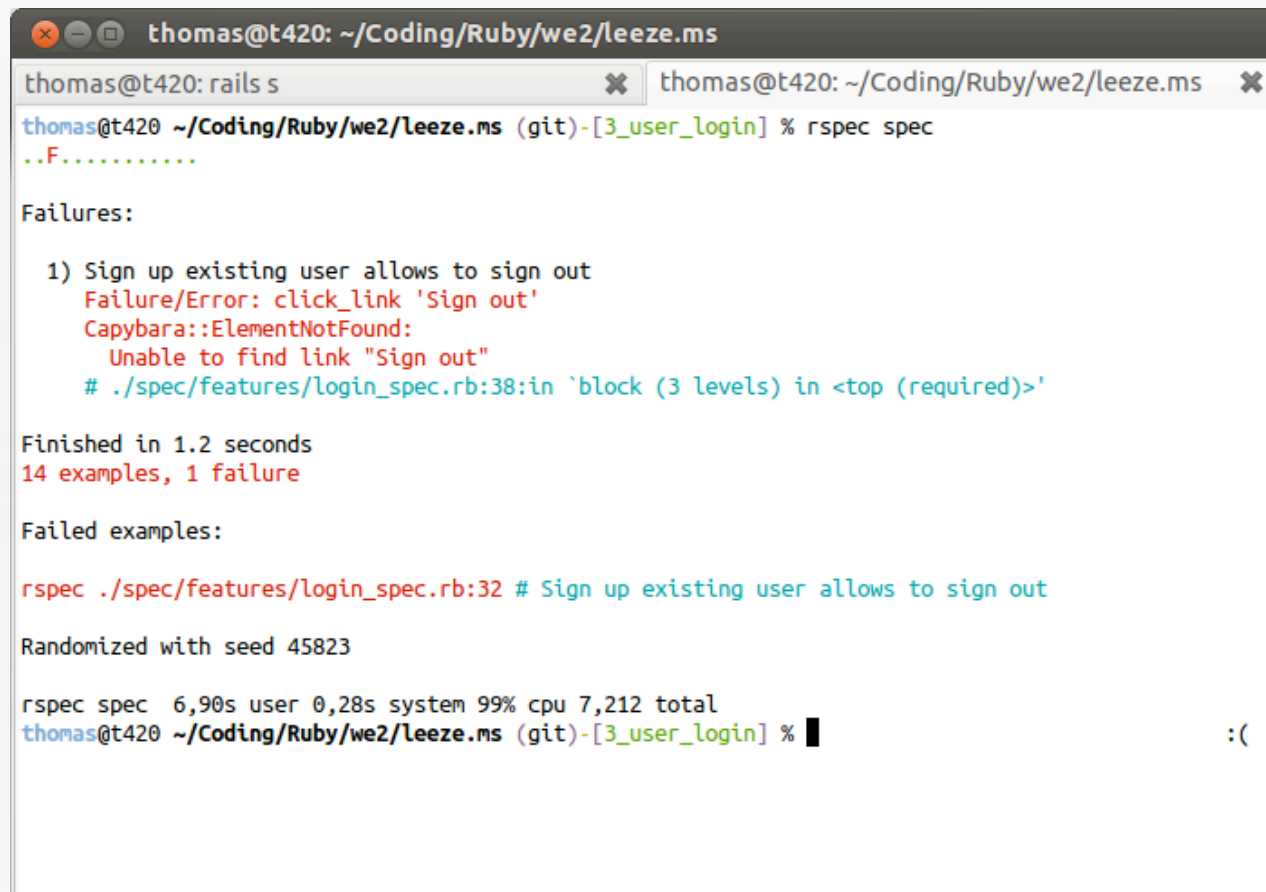


```
login_spec.rb (~/.Coding/Ruby/we2/leeze.ms/spec/features) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

18
19 context 'existing user' do
20   let!(:user) { FactoryGirl.create :user }
21
22   it 'allows to sign in' do
23     click_link 'Sign in'
24     fill_in "user_email", with: user.email
25     fill_in "user_password", with: 'hackme!!'
26     click_button 'Sign in'
27
28     page.should have_content "Welcome, #{user.email}"
29
30   end
31
32   it 'allows to sign out' do
33     click_link 'Sign in'
34     fill_in "user_email", with: user.email
35     fill_in "user_password", with: 'hackme!!'
36     click_button 'Sign in'
37
38     click_link 'Sign out'
39
40     page.should_not have_content "Welcome, #{user.email}"
41     page.should have_content 'Sign in'
42   end
43 end
44 end
45
~
~
~
spec/features/login_spec.rb [Rails] 42,1 Ende
-- VISUELL ZEILE --
```

# Story 5: Ausloggen

- Tests ausführen



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
..F.....

Failures:

  1) Sign up existing user allows to sign out
     Failure/Error: click_link 'Sign out'
     Capybara::ElementNotFound:
       Unable to find link "Sign out"
     # ./spec/features/login_spec.rb:38:in `block (3 levels) in <top (required)>'

Finished in 1.2 seconds
14 examples, 1 failure

Failed examples:

rspec ./spec/features/login_spec.rb:32 # Sign up existing user allows to sign out

Randomized with seed 45823

rspec spec 6,90s user 0,28s system 99% cpu 7,212 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Devise einrichten

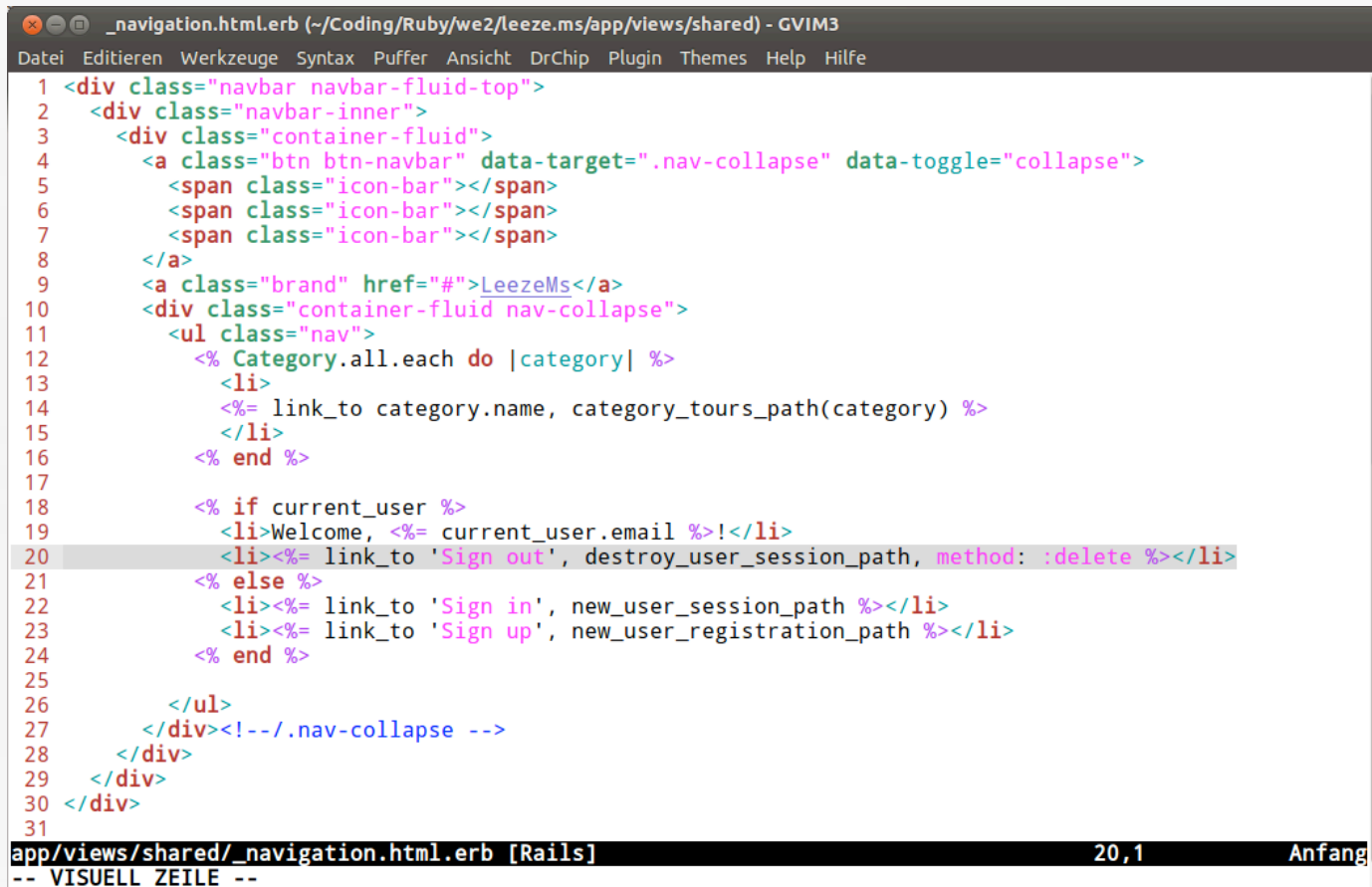
- \$ rake routes

```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rake routes
      new_user_session GET    /users/sign_in(.:format)  devise/sessions#new
      user_session     POST   /users/sign_in(.:format)  devise/sessions#create
destroy_user_session  DELETE /users/sign_out(.:format)  devise/sessions#destroy
      user_password     POST   /users/password(.:format)  devise/passwords#create
      new_user_password GET     /users/password/new(.:format) devise/passwords#new
      edit_user_password GET     /users/password/edit(.:format) devise/passwords#edit
                        PUT     /users/password(.:format)  devise/passwords#update
cancel_user_registration GET    /users/cancel(.:format)    devise/registrations#cancel
      user_registration POST   /users(.:format)           devise/registrations#create
      new_user_registration GET    /users/sign_up(.:format)    devise/registrations#new
      edit_user_registration GET    /users/edit(.:format)       devise/registrations#edit
                        PUT     /users(.:format)           devise/registrations#update
                        DELETE  /users(.:format)           devise/registrations#destroy
      tours             GET    /tours(.:format)           tours#index
                        POST    /tours(.:format)           tours#create
      new_tour          GET    /tours/new(.:format)       tours#new
      edit_tour         GET    /tours/:id/edit(.:format)   tours#edit
      tour             GET    /tours/:id(.:format)       tours#show
                        PUT     /tours/:id(.:format)       tours#update
                        DELETE  /tours/:id(.:format)       tours#destroy
      category_tours    GET    /:category_id(.:format)     tours#index
      root             /                                           tours#index
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```



# Story 5: Ausloggen

- Logout-Link in Navigation einbauen



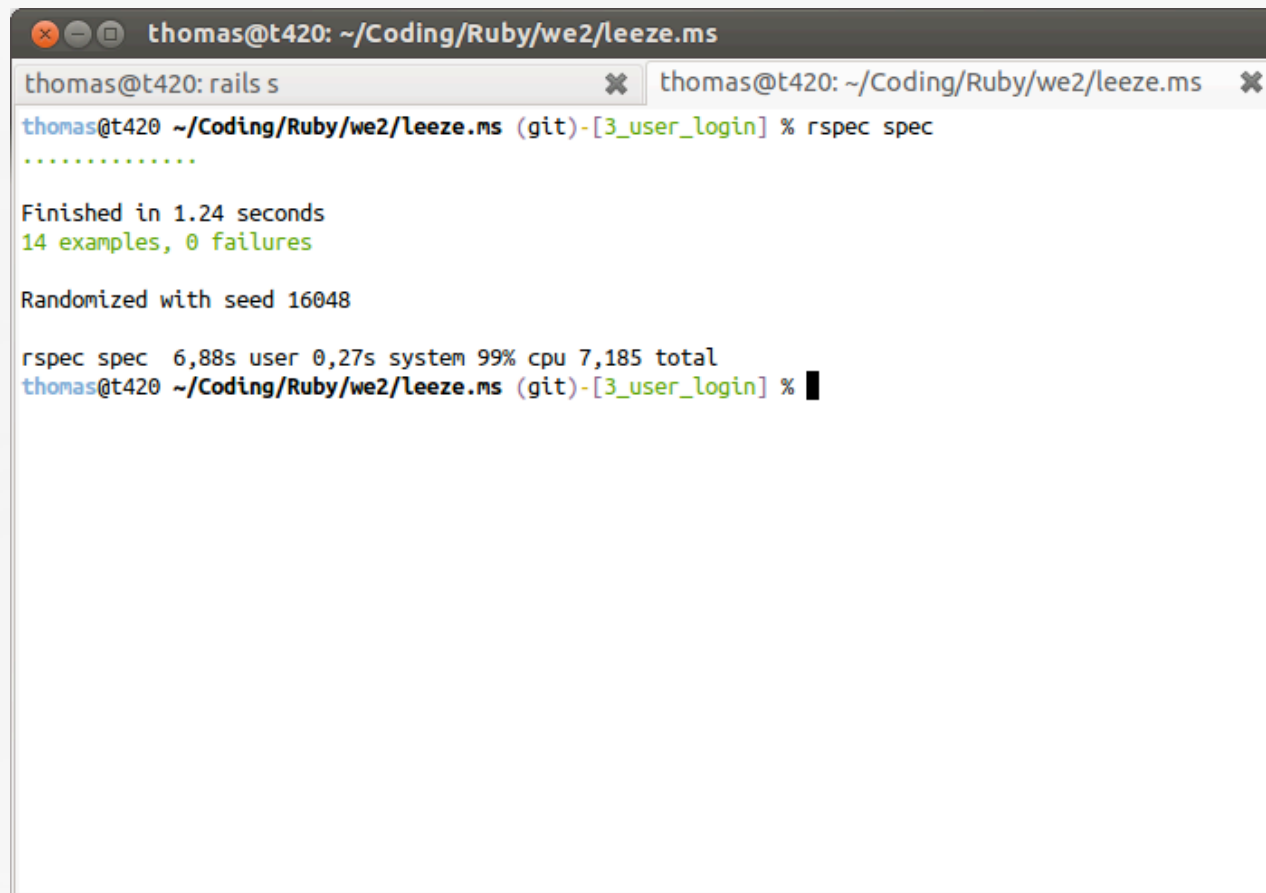
```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

1 <div class="navbar navbar-fluid-top">
2   <div class="navbar-inner">
3     <div class="container-fluid">
4       <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5         <span class="icon-bar"></span>
6         <span class="icon-bar"></span>
7         <span class="icon-bar"></span>
8       </a>
9       <a class="brand" href="#">LeezeMs</a>
10      <div class="container-fluid nav-collapse">
11        <ul class="nav">
12          <% Category.all.each do |category| %>
13            <li>
14              <%= link_to category.name, category_tours_path(category) %>
15            </li>
16          <% end %>
17
18          <% if current_user %>
19            <li>Welcome, <%= current_user.email %>!</li>
20            <li><%= link_to 'Sign out', destroy_user_session_path, method: :delete %></li>
21          <% else %>
22            <li><%= link_to 'Sign in', new_user_session_path %></li>
23            <li><%= link_to 'Sign up', new_user_registration_path %></li>
24          <% end %>
25        </ul>
26      </div><!--/.nav-collapse -->
27    </div>
28  </div>
29 </div>
30 </div>
31

app/views/shared/_navigation.html.erb [Rails] 20,1 Anfang
-- VISUELL ZEILE --
```

# Story 5: Ausloggen

- Test ausführen



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

Finished in 1.24 seconds
14 examples, 0 failures

Randomized with seed 16048

rspec spec 6,88s user 0,27s system 99% cpu 7,185 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Story 5: Refactoring

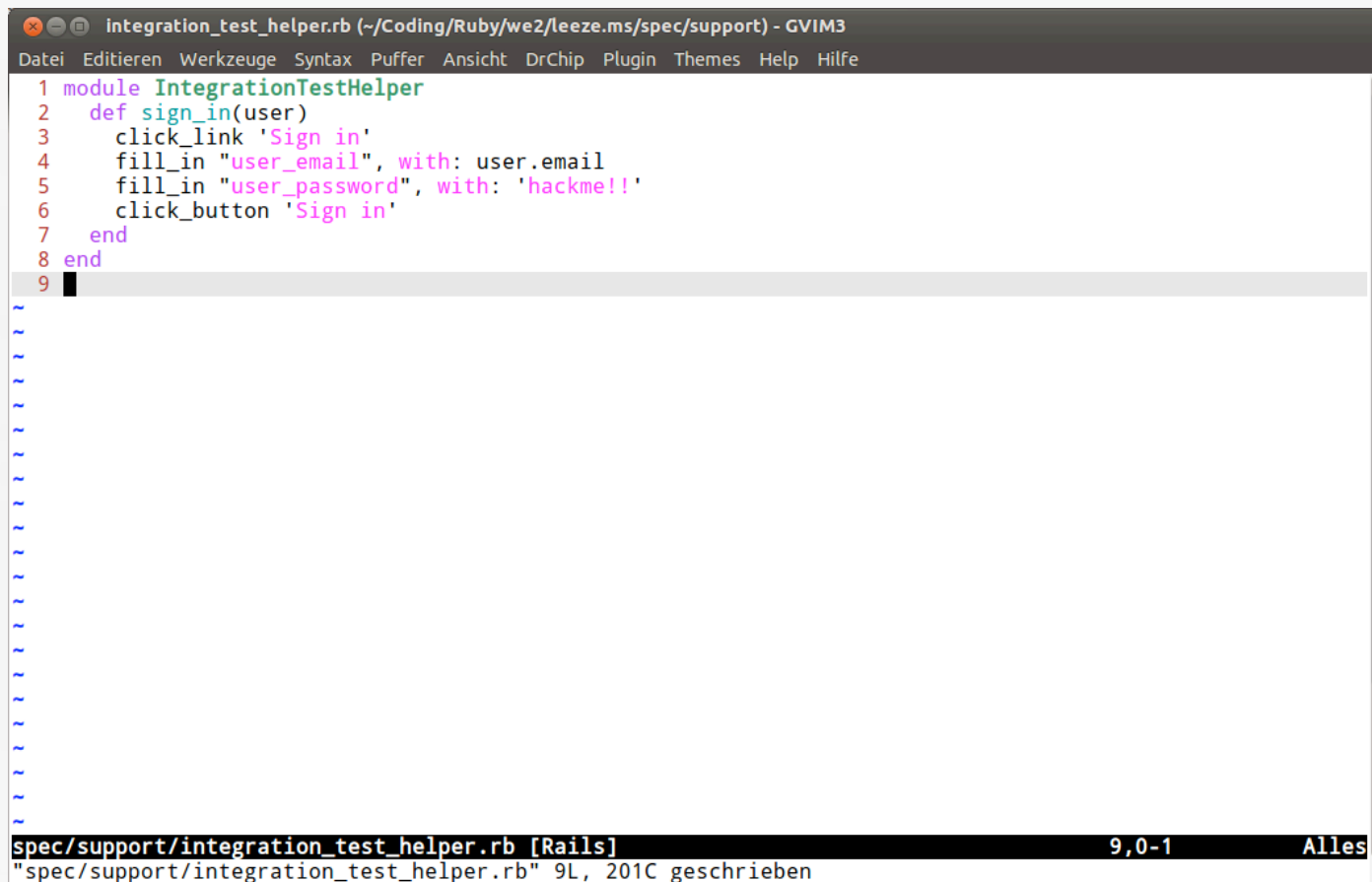
- Login- und Logout-Test sind nicht DRY.
- Formular ausfüllen und abschicken sollte ausgelagert werden
- Nutzerlogin ist wahrscheinlich für weitere Tests relevant, sollte in mehreren Tests verfügbar sein
- --> Hierfür erstellen wir einen Integration-Test-Helper

# Test-Helper

- Methoden, die von mehreren Tests genutzt werden, lagert man in Test Helper aus
- Test-Helper...
  - ... sind einfache Ruby-Module mit Methoden
  - ... befinden sich in spec/support/
  - ... müssen explizit in RSpec eingebunden werden

# Story 5: Refactoring

- Test-Helper erstellen



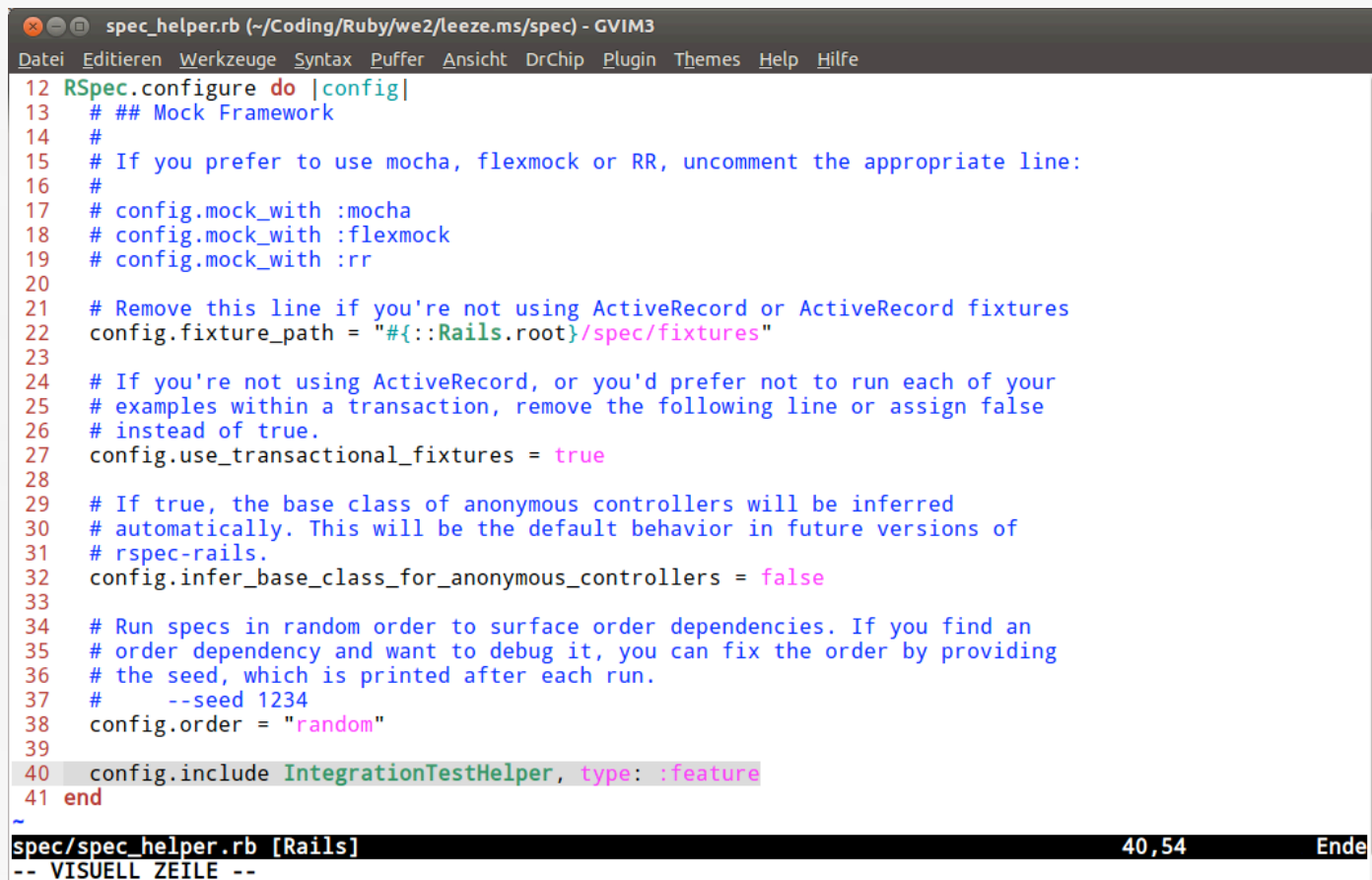
The screenshot shows a VIM3 editor window titled "Integration\_test\_helper.rb (~/.Coding/Ruby/we2/leeze.ms/spec/support) - GVIM3". The menu bar includes "Datei", "Editieren", "Werkzeuge", "Syntax", "Puffer", "Ansicht", "DrChip", "Plugin", "Themes", "Help", and "Hilfe". The code in the editor is as follows:

```
1 module IntegrationTestHelper
2   def sign_in(user)
3     click_link 'Sign in'
4     fill_in "user_email", with: user.email
5     fill_in "user_password", with: 'hackme!!'
6     click_button 'Sign in'
7   end
8 end
9
```

The status bar at the bottom displays "spec/support/integration\_test\_helper.rb [Rails]" on the left, "9,0-1" in the center, and "Alles" on the right.

# Story 5: Refactoring

- Test-Helper einbinden



```
spec_helper.rb (~/.Coding/Ruby/we2/leeze.ms/spec) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
12 RSpec.configure do |config|
13   # ## Mock Framework
14   #
15   # If you prefer to use mocha, flexmock or RR, uncomment the appropriate line:
16   #
17   # config.mock_with :mocha
18   # config.mock_with :flexmock
19   # config.mock_with :rr
20
21   # Remove this line if you're not using ActiveRecord or ActiveRecord fixtures
22   config.fixture_path = "#{::Rails.root}/spec/fixtures"
23
24   # If you're not using ActiveRecord, or you'd prefer not to run each of your
25   # examples within a transaction, remove the following line or assign false
26   # instead of true.
27   config.use_transactional_fixtures = true
28
29   # If true, the base class of anonymous controllers will be inferred
30   # automatically. This will be the default behavior in future versions of
31   # rspec-rails.
32   config.infer_base_class_for_anonymous_controllers = false
33
34   # Run specs in random order to surface order dependencies. If you find an
35   # order dependency and want to debug it, you can fix the order by providing
36   # the seed, which is printed after each run.
37   #   --seed 1234
38   config.order = "random"
39
40   config.include IntegrationTestHelper, type: :feature
41 end
~
spec/spec_helper.rb [Rails] 40,54 Ende
-- VISUELL ZEILE --
```

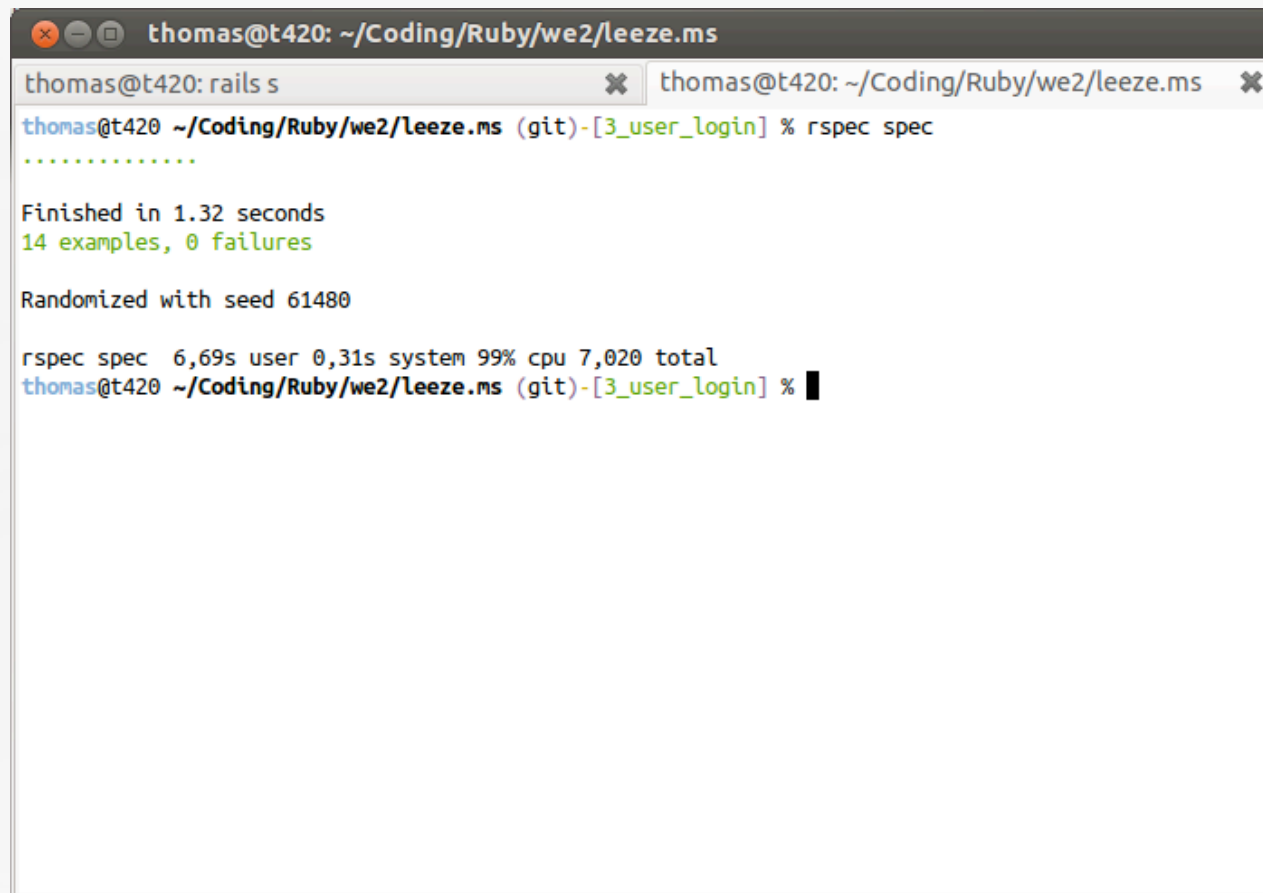
# Story 5: Refactoring

- ## ● Test-Helper in Test einbinden

```
login_spec.rb (~/.Coding/Ruby/we2/leeze.ms/spec/features) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
18
19 context 'existing user' do
20   let!(:user) { FactoryGirl.create :user }
21
22   before(:each) do
23     sign_in user
24   end
25
26   it 'allows to sign in' do
27     page.should have_content "Welcome, #{user.email}"
28   end
29
30   it 'allows to sign out' do
31     click_link 'Sign out'
32
33     page.should_not have_content "Welcome, #{user.email}"
34     page.should have_content 'Sign in'
35   end
36 end
37 end
38
~
~
~
~
~
~
~
~
~
spec/features/login_spec.rb [Rails] 23,7 Ende
-- VISUELL ZEILE --
```

# Story 5: Refactoring

- Tests ausführen

A terminal window titled 'thomas@t420: ~/Coding/Ruby/we2/leeze.ms' showing the output of running 'rspec spec'. The output indicates that the tests passed successfully. The terminal text is as follows:

```
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

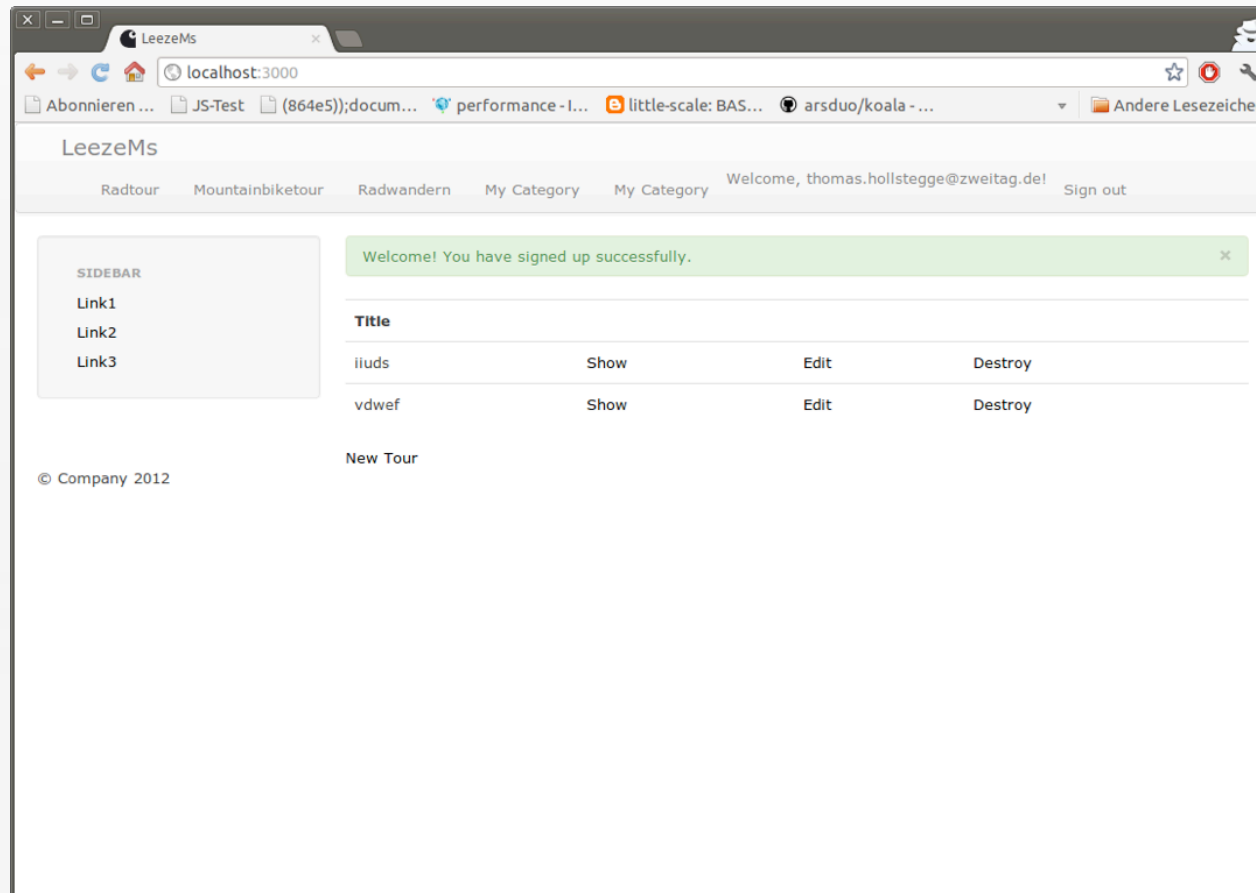
Finished in 1.32 seconds
14 examples, 0 failures

Randomized with seed 61480

rspec spec 6,69s user 0,31s system 99% cpu 7,020 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```



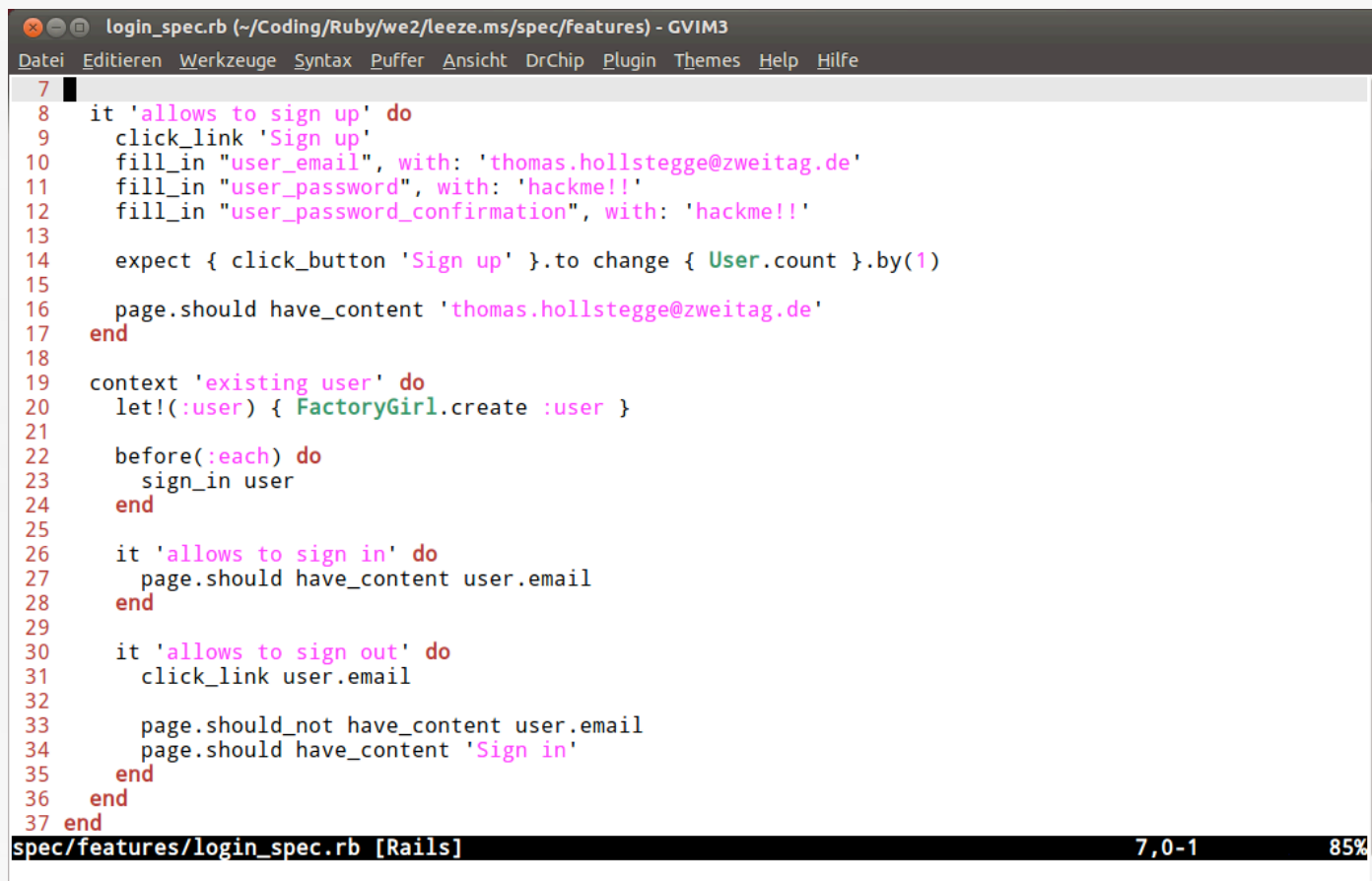
# Ergebnis



- --> Navigation fällt auseinander!

# Story 5: Refactoring

- Idee: Logout bei Klick auf Mailadresse



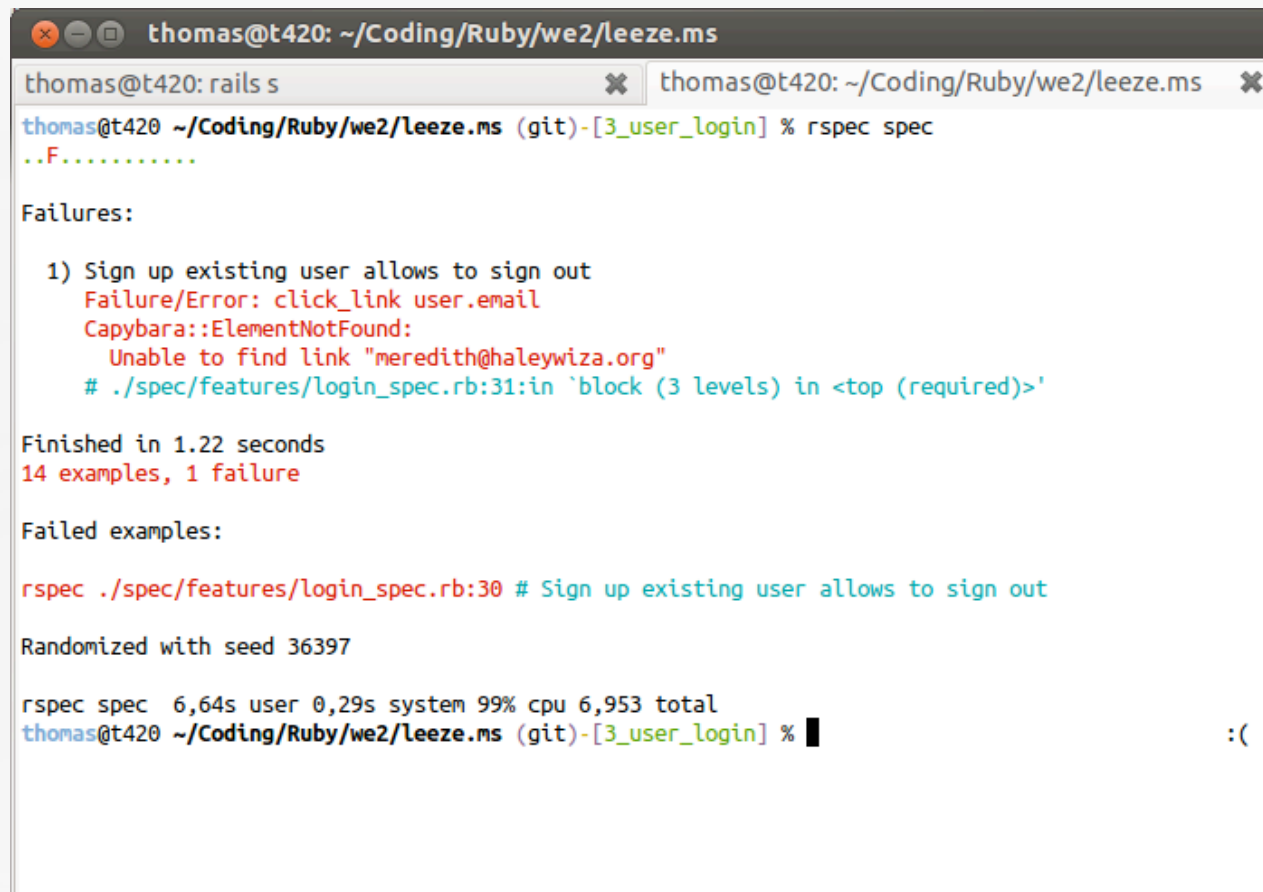
```
login_spec.rb (~/.Coding/Ruby/we2/leeze.ms/spec/features) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

7
8 it 'allows to sign up' do
9   click_link 'Sign up'
10  fill_in "user_email", with: 'thomas.hollstegge@zweitag.de'
11  fill_in "user_password", with: 'hackme!!'
12  fill_in "user_password_confirmation", with: 'hackme!!'
13
14  expect { click_button 'Sign up' }.to change { User.count }.by(1)
15
16  page.should have_content 'thomas.hollstegge@zweitag.de'
17 end
18
19 context 'existing user' do
20   let(:user) { FactoryGirl.create :user }
21
22   before(:each) do
23     sign_in user
24   end
25
26   it 'allows to sign in' do
27     page.should have_content user.email
28   end
29
30   it 'allows to sign out' do
31     click_link user.email
32
33     page.should_not have_content user.email
34     page.should have_content 'Sign in'
35   end
36 end
37 end

spec/features/login_spec.rb [Rails] 7,0-1 85%
```

# Story 5: Refactoring

- Tests ausführen



```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
..F.....

Failures:

  1) Sign up existing user allows to sign out
     Failure/Error: click_link user.email
     Capybara::ElementNotFound:
       Unable to find link "meredith@haleywiza.org"
     # ./spec/features/login_spec.rb:31:in `block (3 levels) in <top (required)>'

Finished in 1.22 seconds
14 examples, 1 failure

Failed examples:

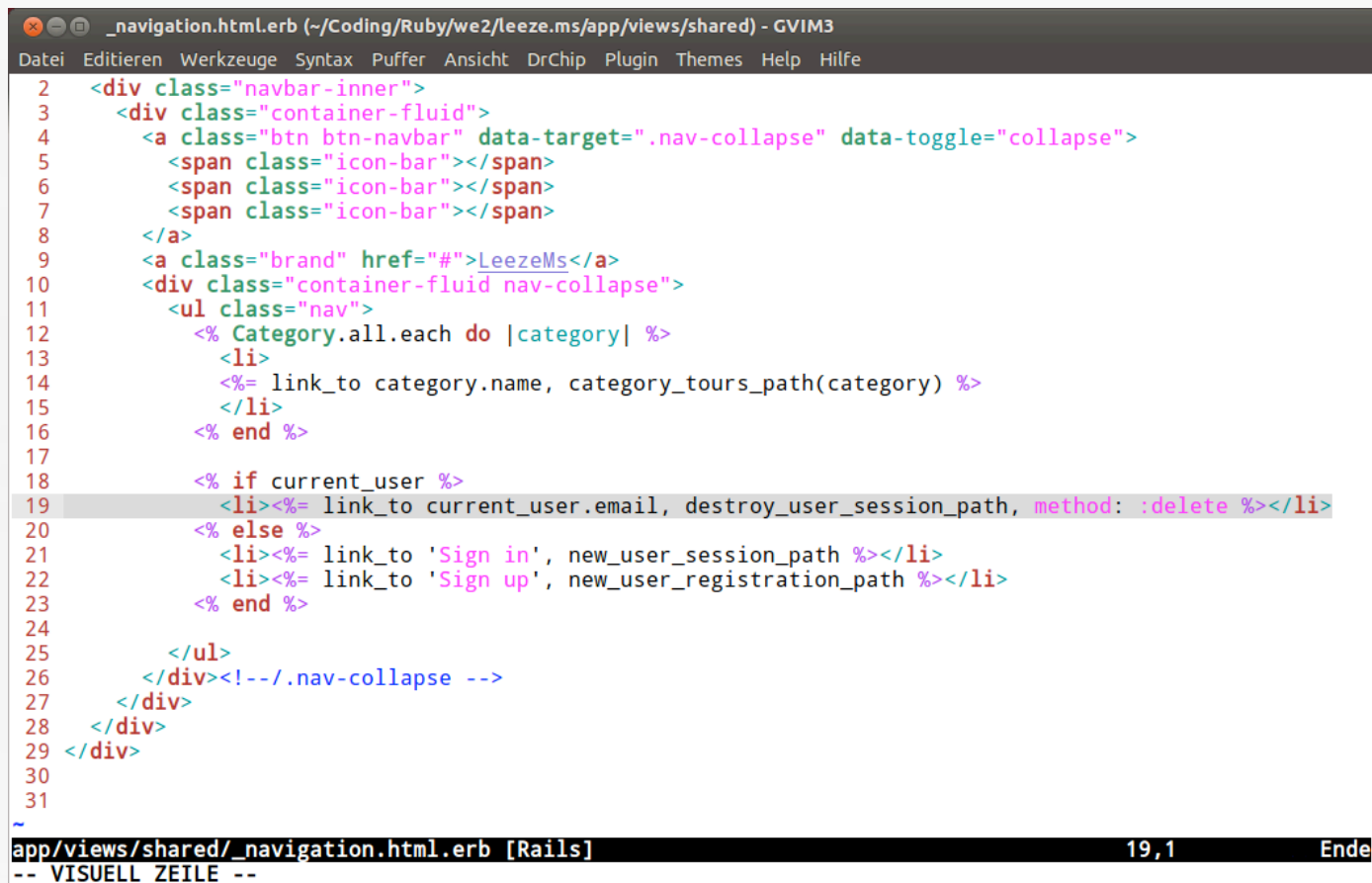
rspec ./spec/features/login_spec.rb:30 # Sign up existing user allows to sign out

Randomized with seed 36397

rspec spec 6,64s user 0,29s system 99% cpu 6,953 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % █
```

# Story 5: Refactoring

- Navigation anpassen

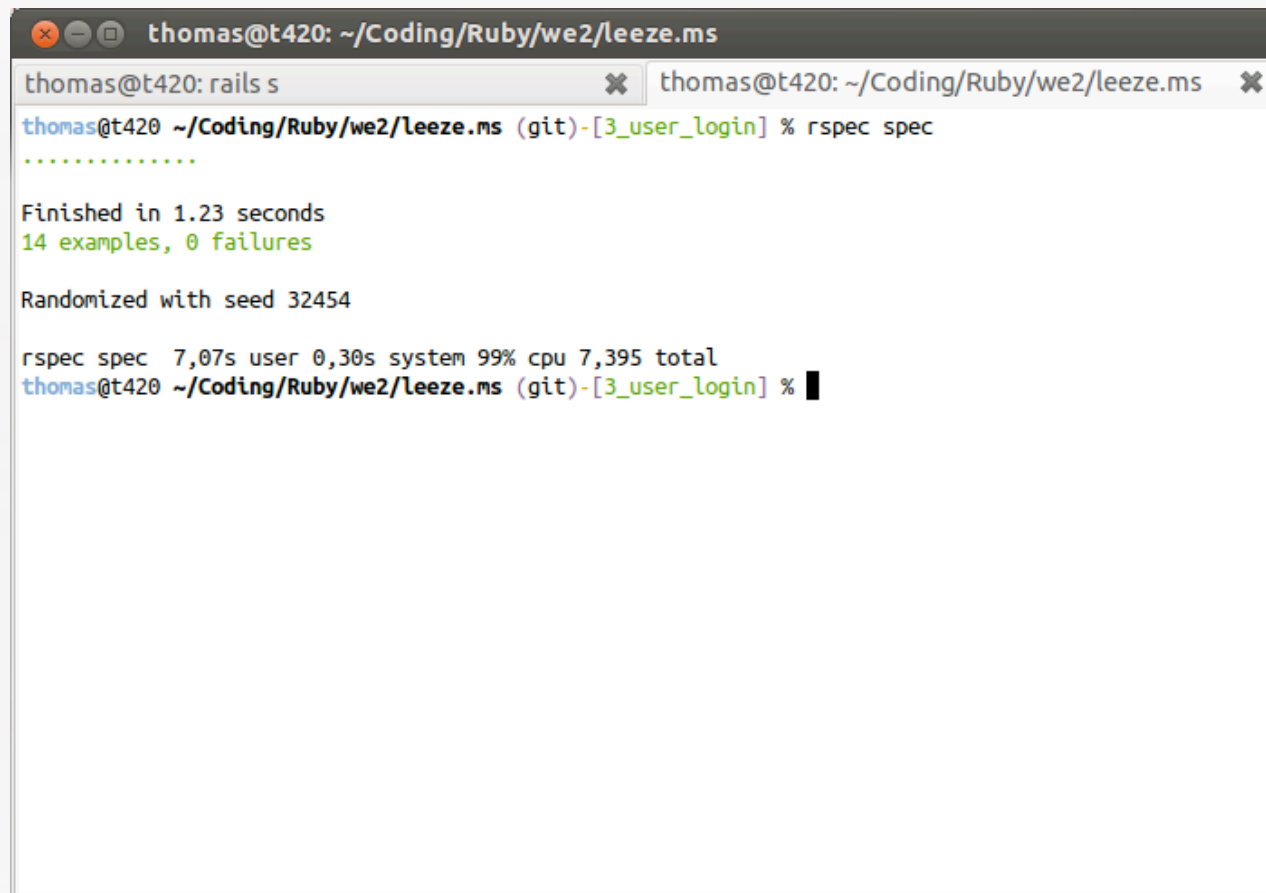


```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe

2 <div class="navbar-inner">
3   <div class="container-fluid">
4     <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7       <span class="icon-bar"></span>
8     </a>
9     <a class="brand" href="#">LeezeMs</a>
10    <div class="container-fluid nav-collapse">
11      <ul class="nav">
12        <% Category.all.each do |category| %>
13          <li>
14            <%= link_to category.name, category_tours_path(category) %>
15          </li>
16        <% end %>
17
18        <% if current_user %>
19          <li><%= link_to current_user.email, destroy_user_session_path, method: :delete %></li>
20        <% else %>
21          <li><%= link_to 'Sign in', new_user_session_path %></li>
22          <li><%= link_to 'Sign up', new_user_registration_path %></li>
23        <% end %>
24      </ul>
25    </div><!--/.nav-collapse -->
26  </div>
27</div>
28</div>
29</div>
30
31
~
app/views/shared/_navigation.html.erb [Rails] 19,1 Ende
-- VISUELL ZEILE --
```

# Story 5: Refactoring

- Tests ausführen

A terminal window titled 'thomas@t420: ~/Coding/Ruby/we2/leeze.ms' with two tabs: 'thomas@t420: rails s' and 'thomas@t420: ~/Coding/Ruby/we2/leeze.ms'. The active tab shows the command 'thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3\_user\_login] % rspec spec' and its output. The output indicates that 14 examples passed with 0 failures in 1.23 seconds, randomized with seed 32454. A summary line shows 'rspec spec 7,07s user 0,30s system 99% cpu 7,395 total'.

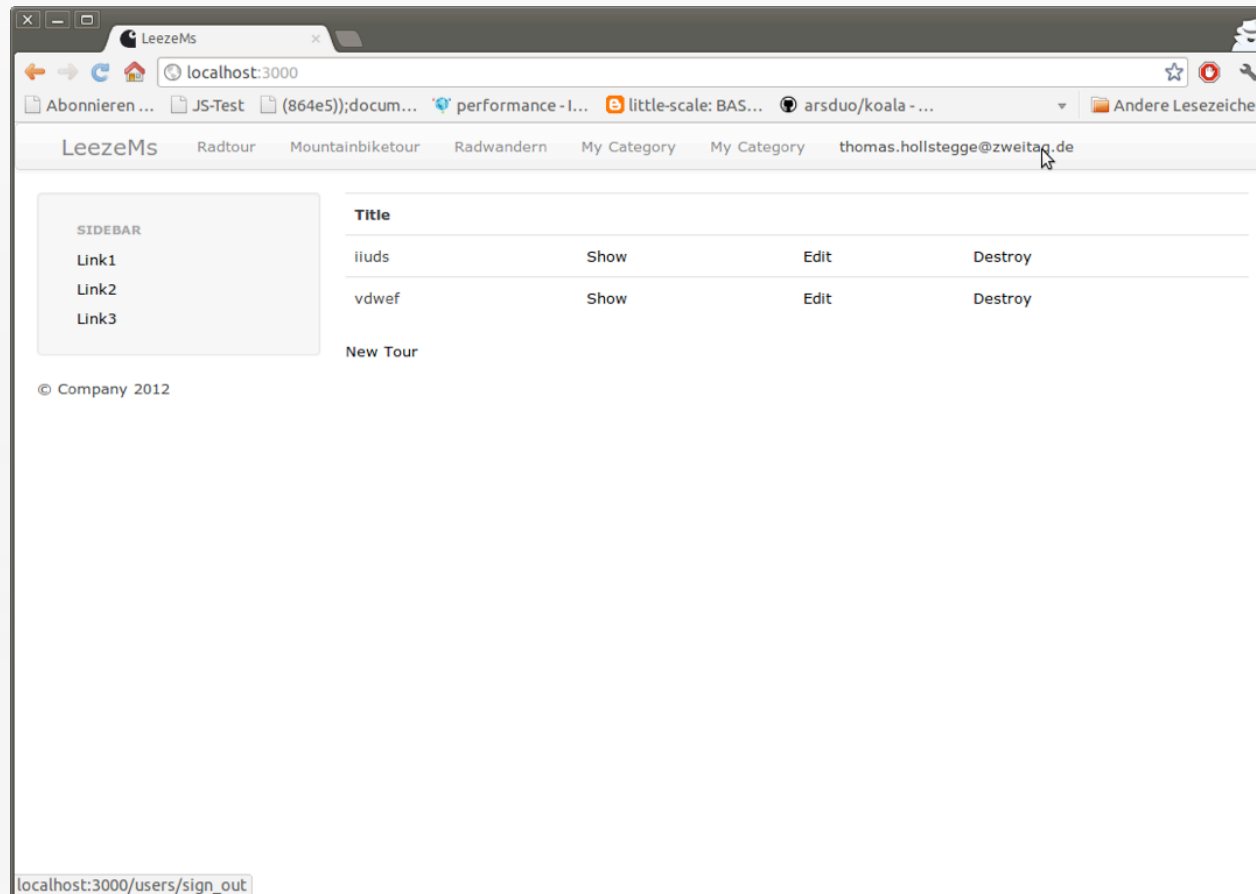
```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

Finished in 1.23 seconds
14 examples, 0 failures

Randomized with seed 32454

rspec spec 7,07s user 0,30s system 99% cpu 7,395 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

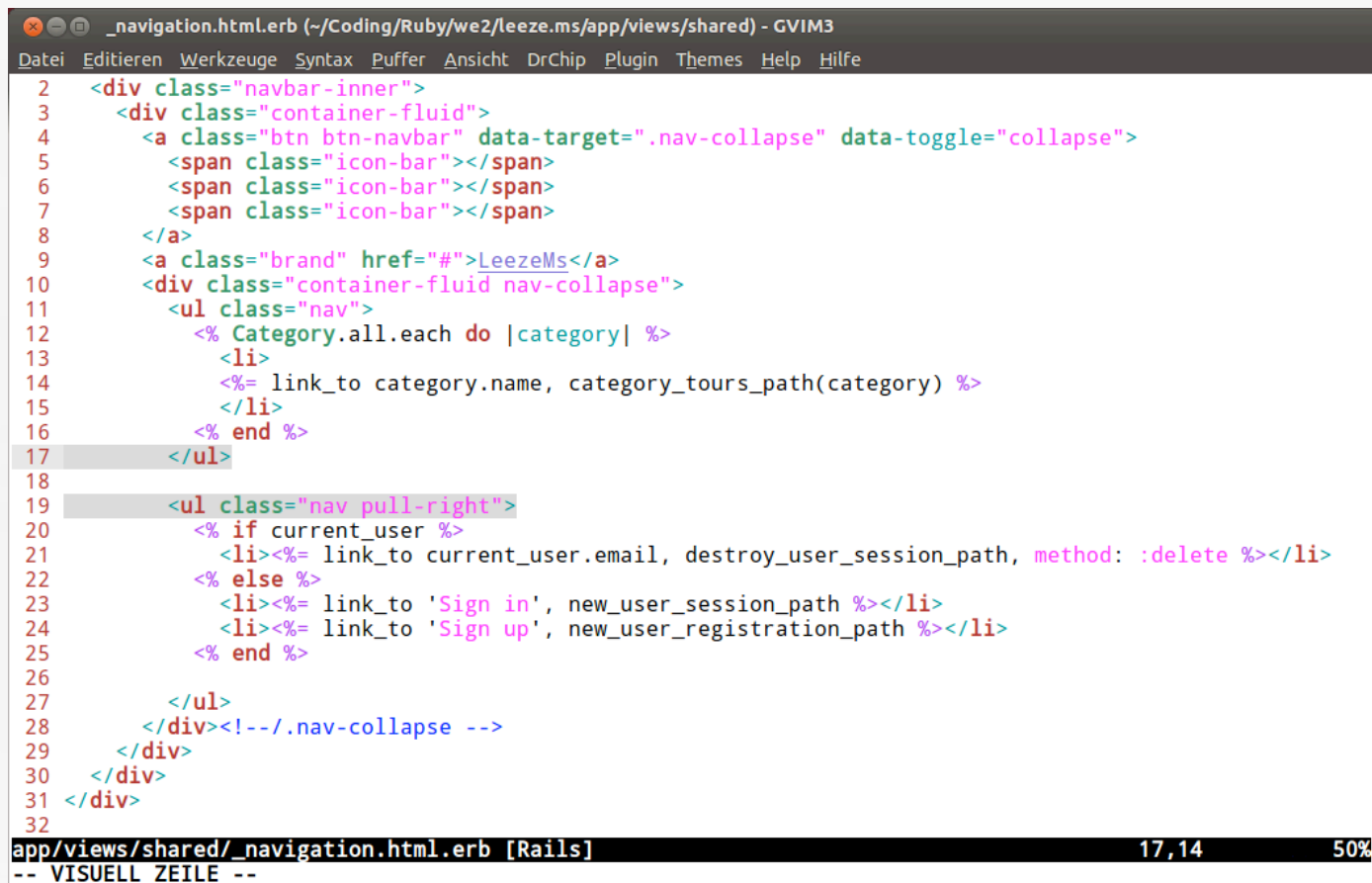
# Ergebnis



- --> Weitere Idee: Navigation rechtsbündig machen

# Story 5: Refactoring

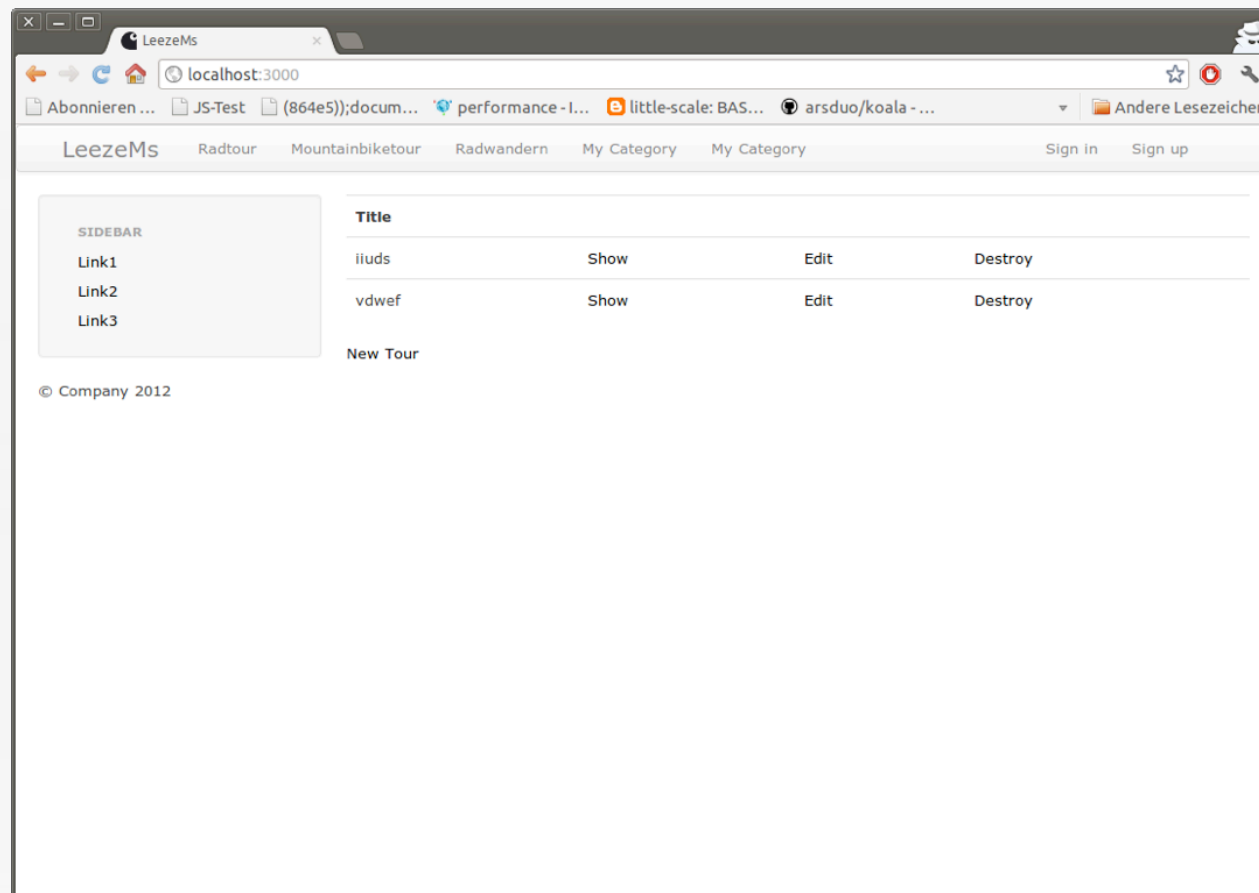
- Navigation anpassen



```
_navigation.html.erb (~/.Coding/Ruby/we2/leeze.ms/app/views/shared) - GVIM3
Datei Editieren Werkzeuge Syntax Puffer Ansicht DrChip Plugin Themes Help Hilfe
2 <div class="navbar-inner">
3   <div class="container-fluid">
4     <a class="btn btn-navbar" data-target=".nav-collapse" data-toggle="collapse">
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7       <span class="icon-bar"></span>
8     </a>
9     <a class="brand" href="#">LeezeMs</a>
10    <div class="container-fluid nav-collapse">
11      <ul class="nav">
12        <% Category.all.each do |category| %>
13          <li>
14            <%= link_to category.name, category_tours_path(category) %>
15          </li>
16        <% end %>
17      </ul>
18
19      <ul class="nav pull-right">
20        <% if current_user %>
21          <li><%= link_to current_user.email, destroy_user_session_path, method: :delete %></li>
22        <% else %>
23          <li><%= link_to 'Sign in', new_user_session_path %></li>
24          <li><%= link_to 'Sign up', new_user_registration_path %></li>
25        <% end %>
26      </ul>
27    </div><!--/.nav-collapse -->
28  </div>
29</div>
30</div>
31</div>
32
app/views/shared/_navigation.html.erb [Rails] 17,14 50%
-- VISUELL ZEILE --
```

# Story 5: Refactoring

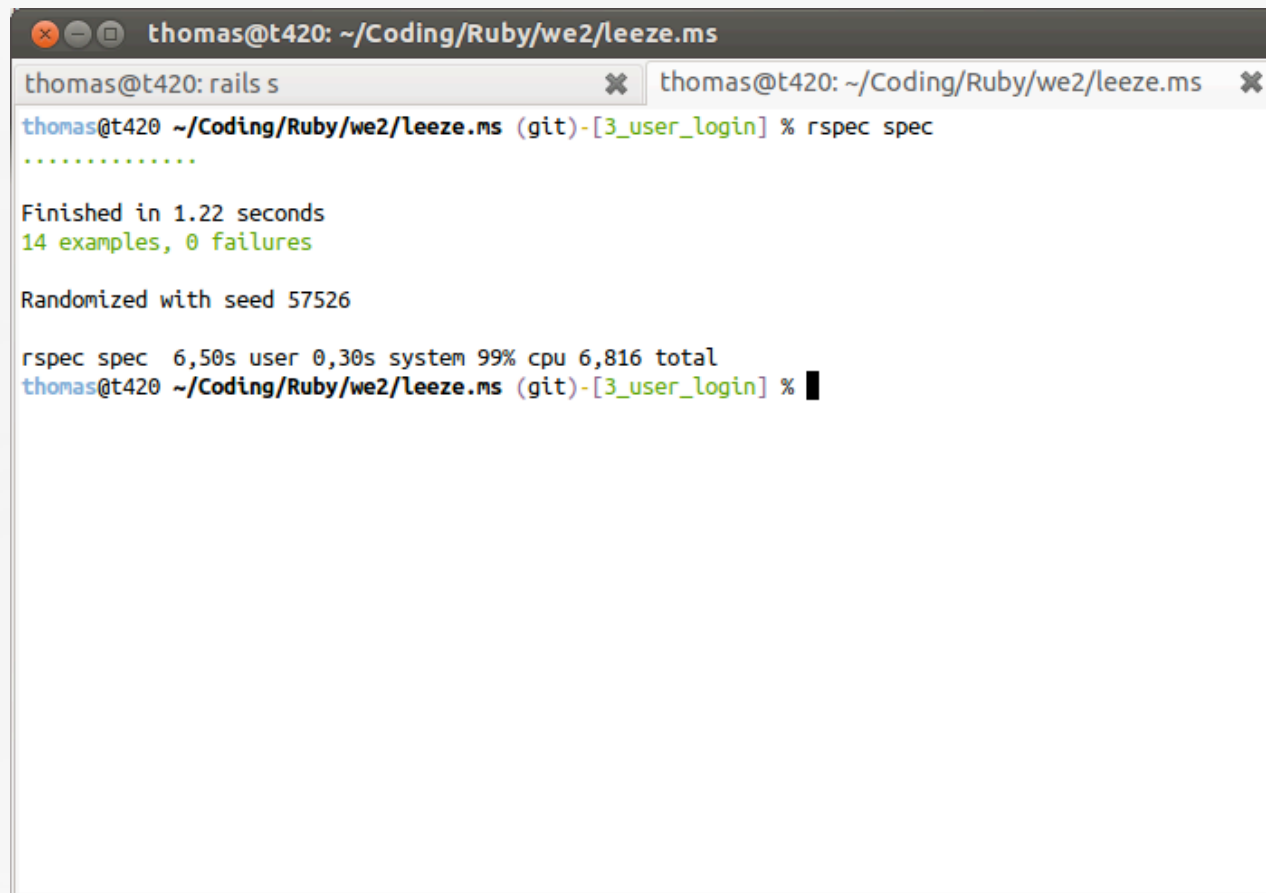
- Ergebnis:





# Story 5: Refactoring

- Tests ausführen

A terminal window titled 'thomas@t420: ~/Coding/Ruby/we2/leeze.ms' showing the output of the 'rspec spec' command. The output indicates that the tests passed successfully. The terminal has a dark title bar and a light background. The command prompt is 'thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3\_user\_login] %'. The output shows 'Finished in 1.22 seconds', '14 examples, 0 failures', and 'Randomized with seed 57526'. At the bottom, it shows 'rspec spec 6,50s user 0,30s system 99% cpu 6,816 total'.

```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

Finished in 1.22 seconds
14 examples, 0 failures

Randomized with seed 57526

rspec spec 6,50s user 0,30s system 99% cpu 6,816 total
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] %
```

# Taskboard



# Taskboard

