



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

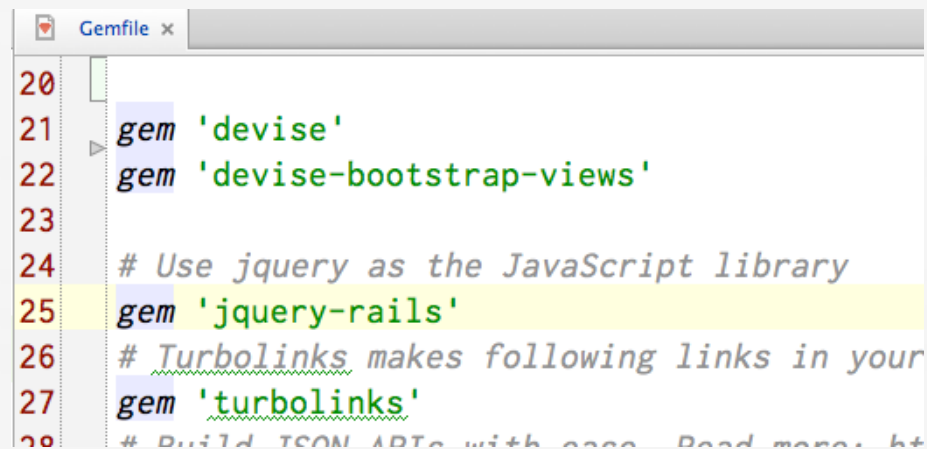
- Rubygem mit Funktionen zur Nutzerauthentifizierung
- De-facto-Standard für Rails-Applikationen
 - Sehr gute Integration in Rails
- Gem enthält eine eigene kleine Rails-Applikation
 - Controller
 - Views
 - Routen
 - ...

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



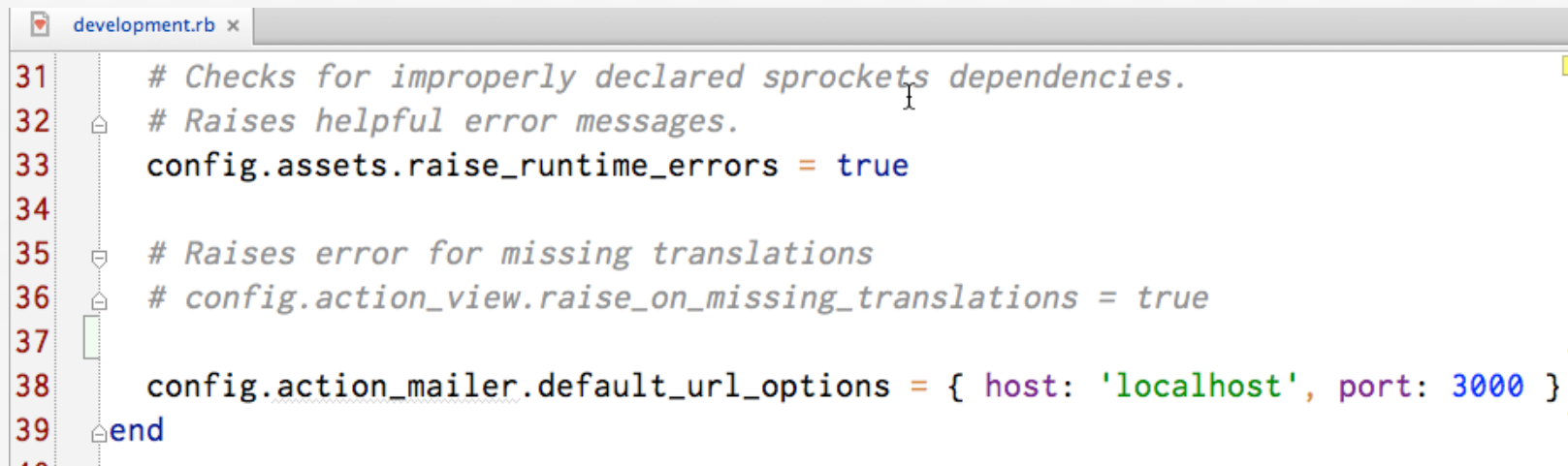
```
Gemfile x
20
21  gem 'devise'
22  gem 'devise-bootstrap-views'
23
24  # Use jquery as the JavaScript library
25  gem 'jquery-rails'
26  # Turbolinks makes following links in your
27  gem 'turbolinks'
28  # Build JSON APIs with ease. Read more: ht
```

Devise installieren

- `$ bundle install`
- `$ rails generate devise:install`
- `$ *= require devise_bootstrap_views`
- `$ rails generate devise:views:bootstrap_templates`

Devise installieren

- config/environments/development.rb anpassen



```
development.rb x
31 # Checks for improperly declared sprockets dependencies.
32 # Raises helpful error messages.
33 config.assets.raise_runtime_errors = true
34
35 # Raises error for missing translations
36 # config.action_view.raise_on_missing_translations = true
37
38 config.action_mailer.default_url_options = { host: 'localhost', port: 3000 }
39 end
```

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

- 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

```
mjohann@MBP15: ~/projects/fhms/leeze.ms | master • bundle exec rake routes
```

	Prefix	Verb	URI Pattern	Controller#Action
	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
		PATCH	/users/password(:format)	devise/passwords#update
		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
		PATCH	/users(:format)	devise/registrations#update
		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
		PATCH	/tours/:id(:format)	tours#update
		PUT	/tours/:id(:format)	tours#update
		DELETE	/tours/:id(:format)	tours#destroy
	category_tours	GET	/:category_id(:format)	tours#index
	root	GET	/	tours#index

```
mjohann@MBP15: ~/projects/fhms/leeze.ms | master •
```

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 displaying 'localhost:3000/users/sign_up'. The browser's bookmark bar contains various links like 'Apps', 'All', 'Detox dev', 'VIM', 'Apple', 'Yahoo!', 'Google Maps', 'Diverses', 'OpenSpritz this!', 'iPhone Development', 'jQueryify', 'Press This', and 'Andere Lesezeichen'. The website's navigation bar includes 'LeezeMs', 'Radtour', 'Mountainbiketour', and 'Radwandern'. The main content area is divided into a sidebar and a sign-up form. The sidebar, titled 'Sidebar', contains links 'Link1', 'Link2', and 'Link3'. The sign-up form, titled 'Sign up', has three input fields: 'Email', 'Password', and 'Password confirmation'. A blue 'Sign up' button is located below the 'Password confirmation' field. At the bottom of the form, there are links for 'Sign in' and 'Forgot your password?'. The footer of the page shows '© Company 2014'.

LeezeMs Radtour Mountainbiketour Radwandern

Sidebar

Sidebar

Link1

Link2

Link3

Sign up

Email

Password

Password confirmation

Sign up

[Sign in](#)

[Forgot your password?](#)


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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:



The screenshot shows a web browser window with the address bar displaying 'view-source:localhost:3000/users/sign_up'. The browser's developer tools are open, showing the HTML source code of the page. The code is a form for user registration, featuring fields for email, password, and password confirmation, along with a 'Sign up' button. The form is styled with Bootstrap classes. The source code is as follows:

```
104 </div>
105 <div class="panel-body">
106   <form accept-charset="UTF-8" action="/users" class="new_user" id="new_user" method="post"
role="form"><div style="display:none"><input name="utf8" type="hidden" value="#x2713;" /><input
name="authenticity_token" type="hidden" value="cV/mS42+JCcD5pwgmQ1zClSS4vx6CMT0RF09h/sBbiI=" />
</div>
107   <div class="form-group">
108     <label for="user_email">Email</label>
109     <input class="form-control" id="user_email" name="user[email]" type="email" value="" />
110   </div>
111   <div class="form-group">
112     <label for="user_password">Password</label><br />
113     <input class="form-control" id="user_password" name="user[password]" type="password" />
114   </div>
115   <div class="form-group">
116     <label for="user_password_confirmation">Password confirmation</label>
117     <input class="form-control" id="user_password_confirmation"
name="user[password_confirmation]" type="password" />
118   </div>
119   <input class="btn btn-primary" name="commit" type="submit" value="Sign up" />
120 </form> </div>
121 </div>
122 <a href="/users/sign_in">Sign in</a><br />
```

Story 4: Integration Test

- Resultierender Test:

...

```
register_spec.rb x
1  require 'rails_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: 'mjohann@rails-experts.com'
11     fill_in 'user_password', with: 'Spacken123'
12     fill_in 'user_password_confirmation', with: 'Spacken123'
13
14     expect { click_button 'Sign up' }.to change { User.count }.by(1)
15
16     expect(page).to have_content 'Welcome, mjohann@rails-experts.com'
17   end
18 end
```

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 x
38 </head>
39 <body>
40
41 <%= render partial: 'shared/navigation' %>
42
43 <div class="container">
44   <div class="row">
45     <div class="col-lg-3">
46       <div class="well sidebar-nav">
47         <h3>Sidebar</h3>
48         <ul class="nav nav-list">
49           <li class="nav-header">Sidebar</li>
50           <li><%= link_to "Link1", "/path1" %></li>
51           <li><%= link_to "Link2", "/path2" %></li>
52           <li><%= link_to "Link3", "/path3" %></li>
53         </ul>
54       </div>
55     <!--/.well -->
56   </div>
57   <!--/span-->
58   <div class="col-lg-9">
59     <%= bootstrap_flash %>
60     <%= yield %>
61   </div>
62 </div>
63 <!--/row-->
```

Story 4: Integration Test

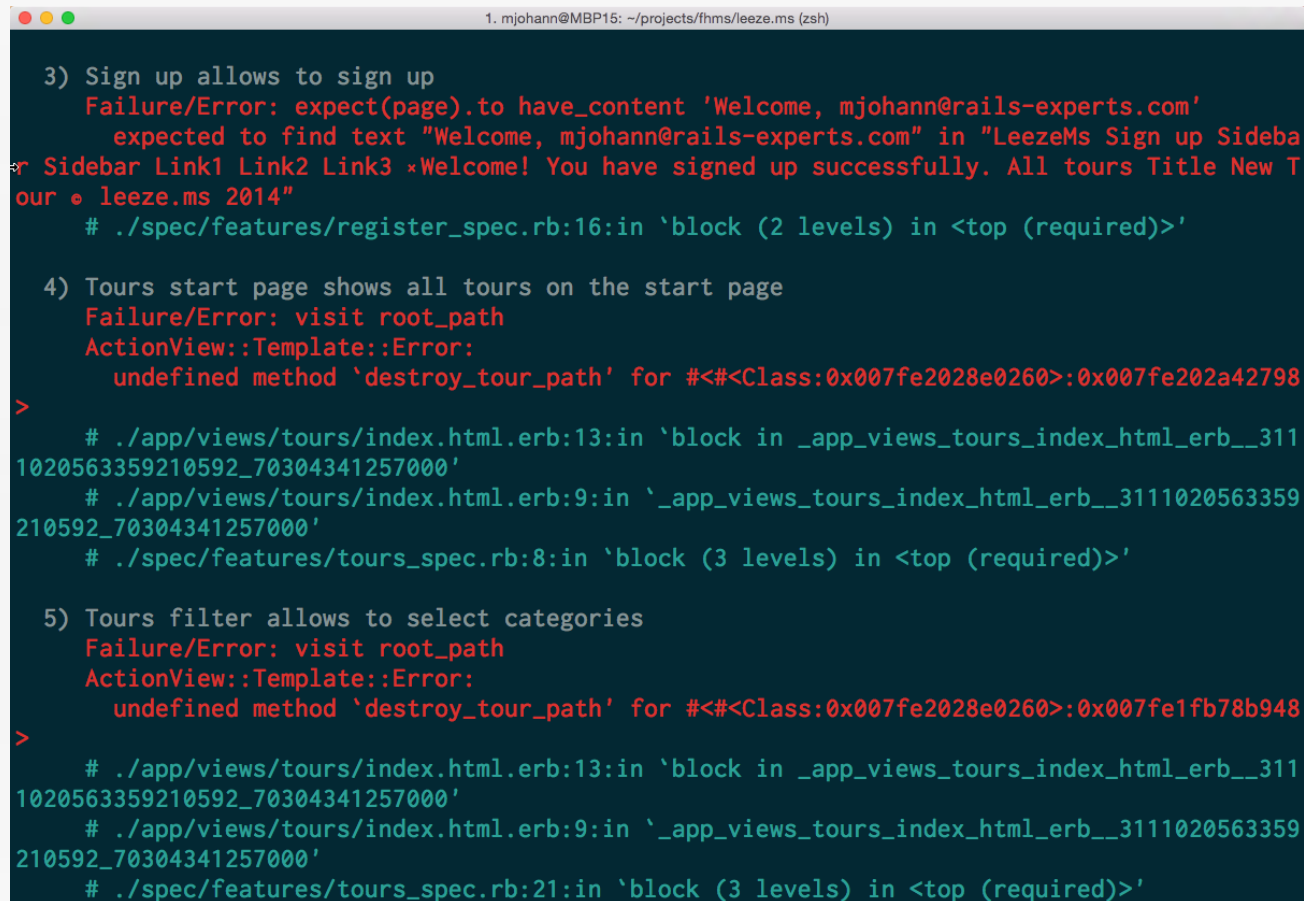
- Schritt 2: Registrierungs-Link einbauen

app/views/shared/_navigation.html.erb

```
1 <div class="navbar navbar-default navbar-static-top">
2   <div class="container">
3     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse">
4       <span class="icon-bar"></span>
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7     </button>
8     <a class="navbar-brand" href="#">LeezeMs</a>
9
10    <div class="navbar-collapse collapse navbar-responsive-collapse">
11      <ul class="nav navbar-nav">
12        <% Category.all.each do |category| %>
13          <li><%= link_to category.name, category_tours_path(category) %></li>
14        <% end %>
15        <li><%= link_to 'Sign up', new_user_registration_path %></li>
16      </ul>
17    </div>
18  </div>
19 </div>
```

Story 4: Integration Test

- Tests ausführen: `$ bundle exec rspec`



A terminal window showing the output of RSpec tests. The window title is "1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)". The output shows three test examples, each failing with a "Failure/Error: visit root_path" and an "ActionView::Template::Error: undefined method 'destroy_tour_path'".

```
3) Sign up allows to sign up
Failure/Error: expect(page).to have_content 'Welcome, mjohann@rails-experts.com'
expected to find text "Welcome, mjohann@rails-experts.com" in "LeezeMs Sign up Sideba
r Sidebar Link1 Link2 Link3 *Welcome! You have signed up successfully. All tours Title New T
our • leeze.ms 2014"
# ./spec/features/register_spec.rb:16:in 'block (2 levels) in <top (required)>'

4) Tours start page shows all tours on the start page
Failure/Error: visit root_path
ActionView::Template::Error:
  undefined method 'destroy_tour_path' for #<#<Class:0x007fe2028e0260>:0x007fe202a42798
>
# ./app/views/tours/index.html.erb:13:in 'block in _app_views_tours_index_html_erb__311
1020563359210592_70304341257000'
# ./app/views/tours/index.html.erb:9:in '_app_views_tours_index_html_erb__3111020563359
210592_70304341257000'
# ./spec/features/tours_spec.rb:8:in 'block (3 levels) in <top (required)>'

5) Tours filter allows to select categories
Failure/Error: visit root_path
ActionView::Template::Error:
  undefined method 'destroy_tour_path' for #<#<Class:0x007fe2028e0260>:0x007fe1fb78b948
>
# ./app/views/tours/index.html.erb:13:in 'block in _app_views_tours_index_html_erb__311
1020563359210592_70304341257000'
# ./app/views/tours/index.html.erb:9:in '_app_views_tours_index_html_erb__3111020563359
210592_70304341257000'
# ./spec/features/tours_spec.rb:21:in 'block (3 levels) in <top (required)>'
```

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

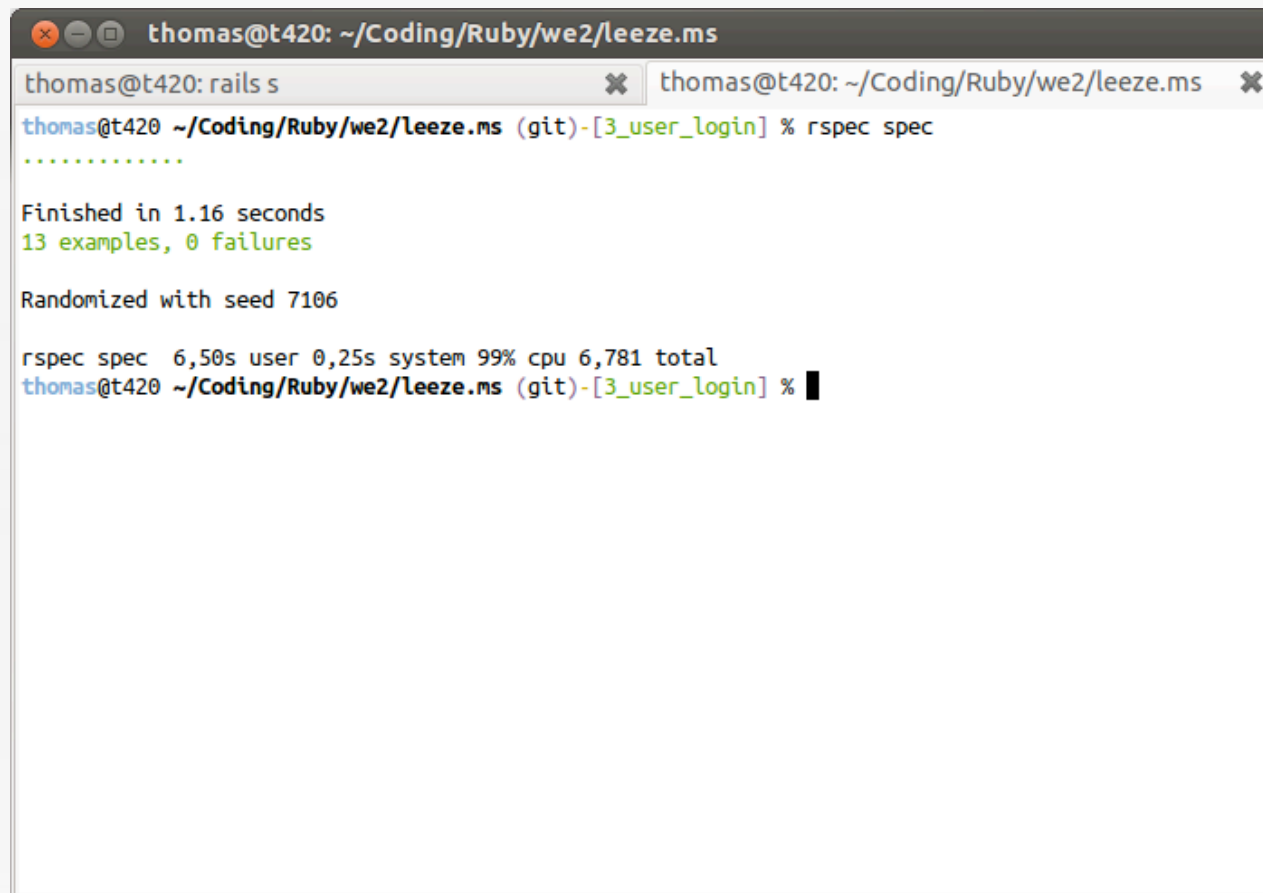
Story 4: Integration Test

- Schritt 3: Mailadresse des Nutzers anzeigen

```
_navigation.html.erb x
1 <div class="navbar navbar-default navbar-static-top">
2   <div class="container">
3     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse">
4       <span class="icon-bar"></span>
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7     </button>
8     <a class="navbar-brand" href="#">LeezeMs</a>
9
10    <div class="navbar-collapse collapse navbar-responsive-collapse">
11      <ul class="nav navbar-nav">
12        <% Category.all.each do |category| %>
13          <li><%= link_to category.name, category_tours_path(category) %></li>
14        <% end %>
15        <% if current_user %>
16          <li>Welcome, <%= current_user.email %></li>
17        <% else %>
18          <li><%= link_to 'Sign up', new_user_registration_path %></li>
19        <% end %>
20      </ul>
21    </div>
22  </div>
23 </div>
24
```

Story 4: Integration Test

- Tests ausführen:



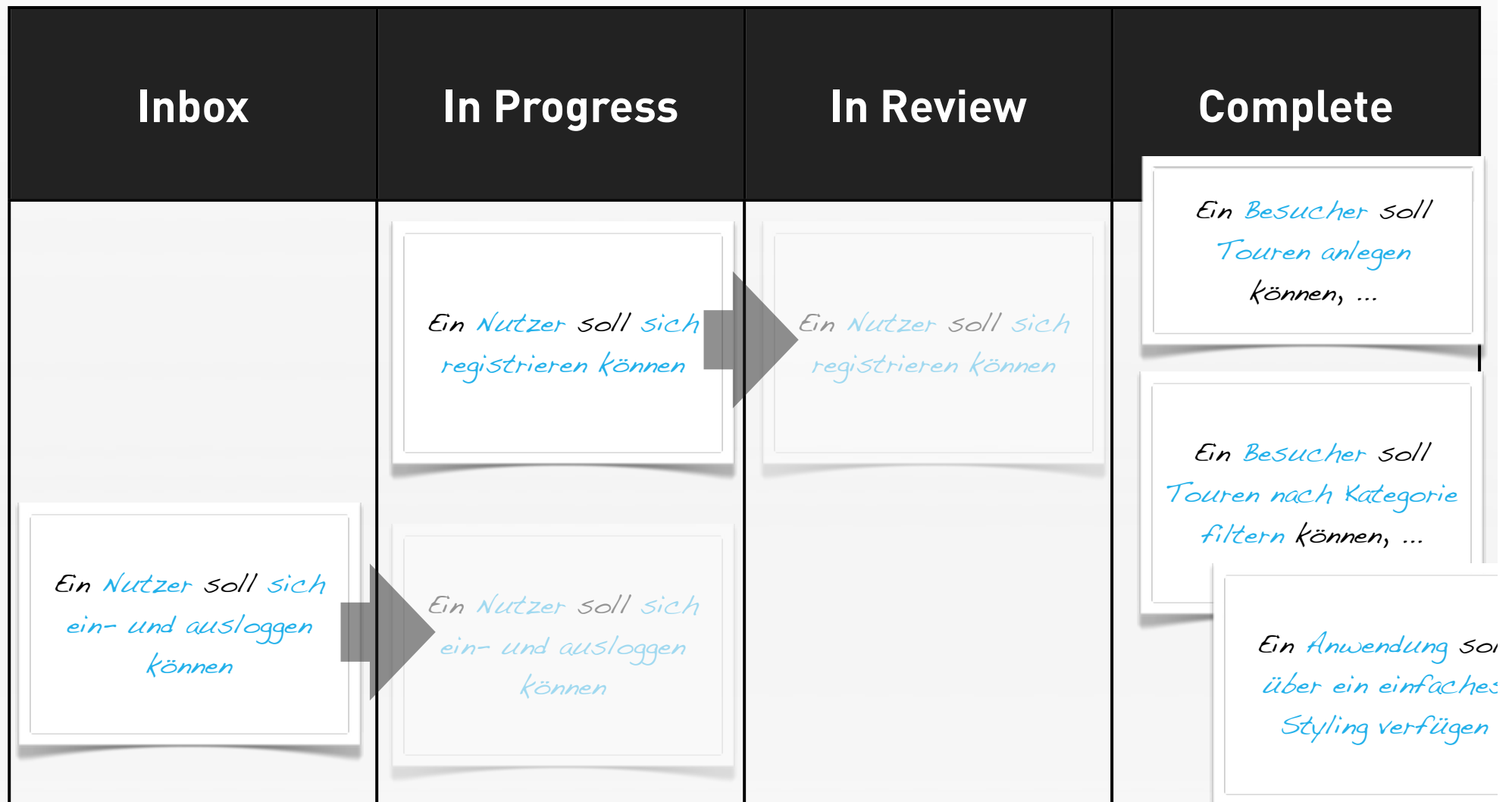
```
thomas@t420: ~/Coding/Ruby/we2/leeze.ms
thomas@t420: rails s
thomas@t420 ~/Coding/Ruby/we2/leeze.ms (git)-[3_user_login] % rspec spec
.....

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

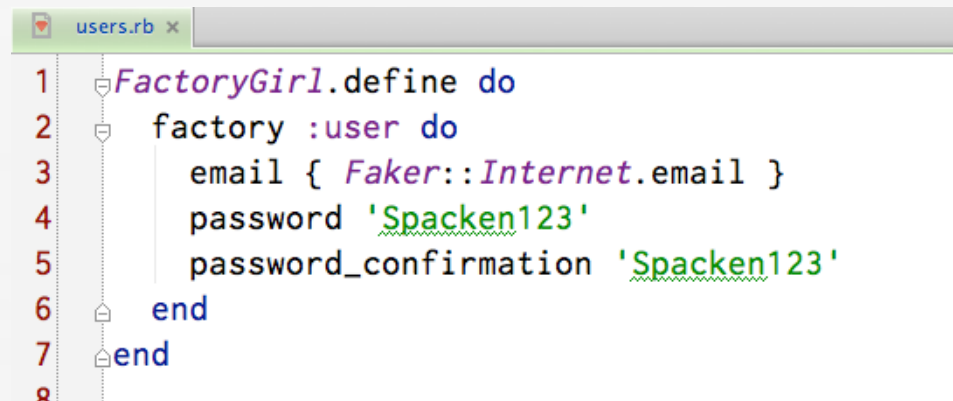
- Idee für einen Integration Test:
 - Erstelle einen Nutzer in der Datenbank
 - Klicke auf Link „Einloggen“
 - Gebe Nutzerdaten ein
 - Klicke auf Button „Einloggen“
 - Nutzer sollte eingeloggt sein
- Zur Erstellung von Test-Nutzern brauchen wir eine Factory
 - --> Hierfür nutzen wir `factory_girl`

Story 5: Einloggen

- Schritt 1: User-Factory anlegen:

..

spec/factories/users.rb



```
1  FactoryGirl.define do
2    factory :user do
3      email { Faker::Internet.email }
4      password 'Spacken123'
5      password_confirmation 'Spacken123'
6    end
7  end
```

Story 5: Einloggen

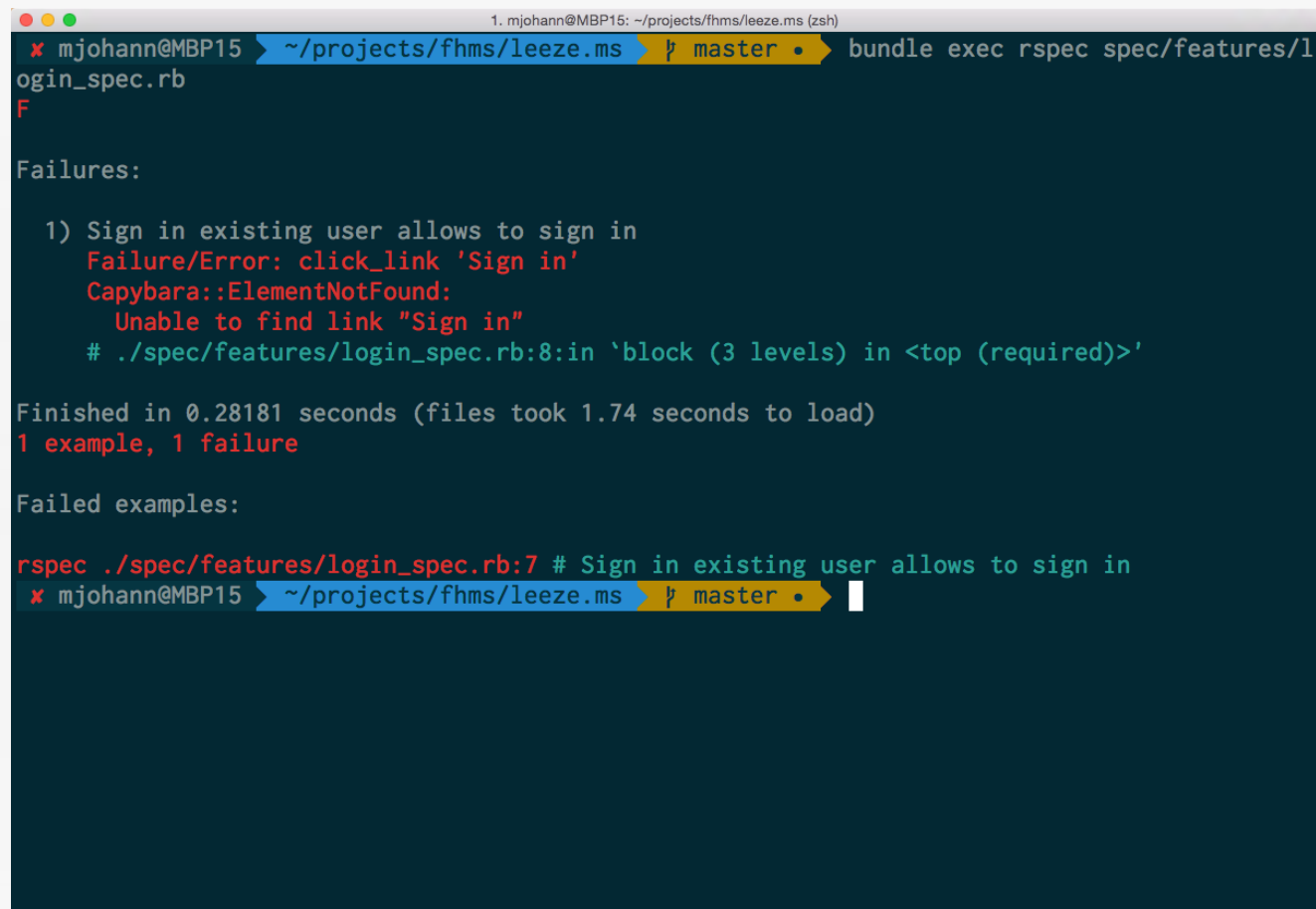
- Schritt 2: Test schreiben

spec/features/login_spec.rb

```
login_spec.rb x
1  require 'rails_helper'
2
3  describe 'Sign in' do
4    context 'existing user' do
5      let!(:user) { FactoryGirl.create(:user) }
6
7      it 'allows to sign in' do
8        click_link 'Sign in'
9        fill_in 'user_email', with: user.email
10       fill_in 'user_password', with: 'Spacken123'
11       click_button 'Sign in'
12
13       expect(page).to have_content "Welcome, #{user.email}"
14     end
15   end
16 end
17
```

Story 5: Einloggen

- Tests ausführen:



```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
✖ mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec spec/features/login_spec.rb
F

Failures:

  1) Sign in 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:8:in `block (3 levels) in <top (required)>'

Finished in 0.28181 seconds (files took 1.74 seconds to load)
1 example, 1 failure

Failed examples:

rspec ./spec/features/login_spec.rb:7 # Sign in existing user allows to sign in
✖ mjohann@MBP15 > ~/projects/fhms/leeze.ms > master •
```


Devise einrichten

- \$ rake routes

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
mjohann@MBP15 ~/projects/fhms/leeze.ms master bundle exec rake routes
```

Prefix	Verb	URI Pattern	Controller#Action
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
	PATCH	/users/password(:format)	devise/passwords#update
	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
	PATCH	/users(:format)	devise/registrations#update
	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
	PATCH	/tours/:id(:format)	tours#update
	PUT	/tours/:id(:format)	tours#update
	DELETE	/tours/:id(:format)	tours#destroy
category_tours	GET	/:category_id(:format)	tours#index
root	GET	/	tours#index

```

mjohann@MBP15 ~/projects/fhms/leeze.ms master

```

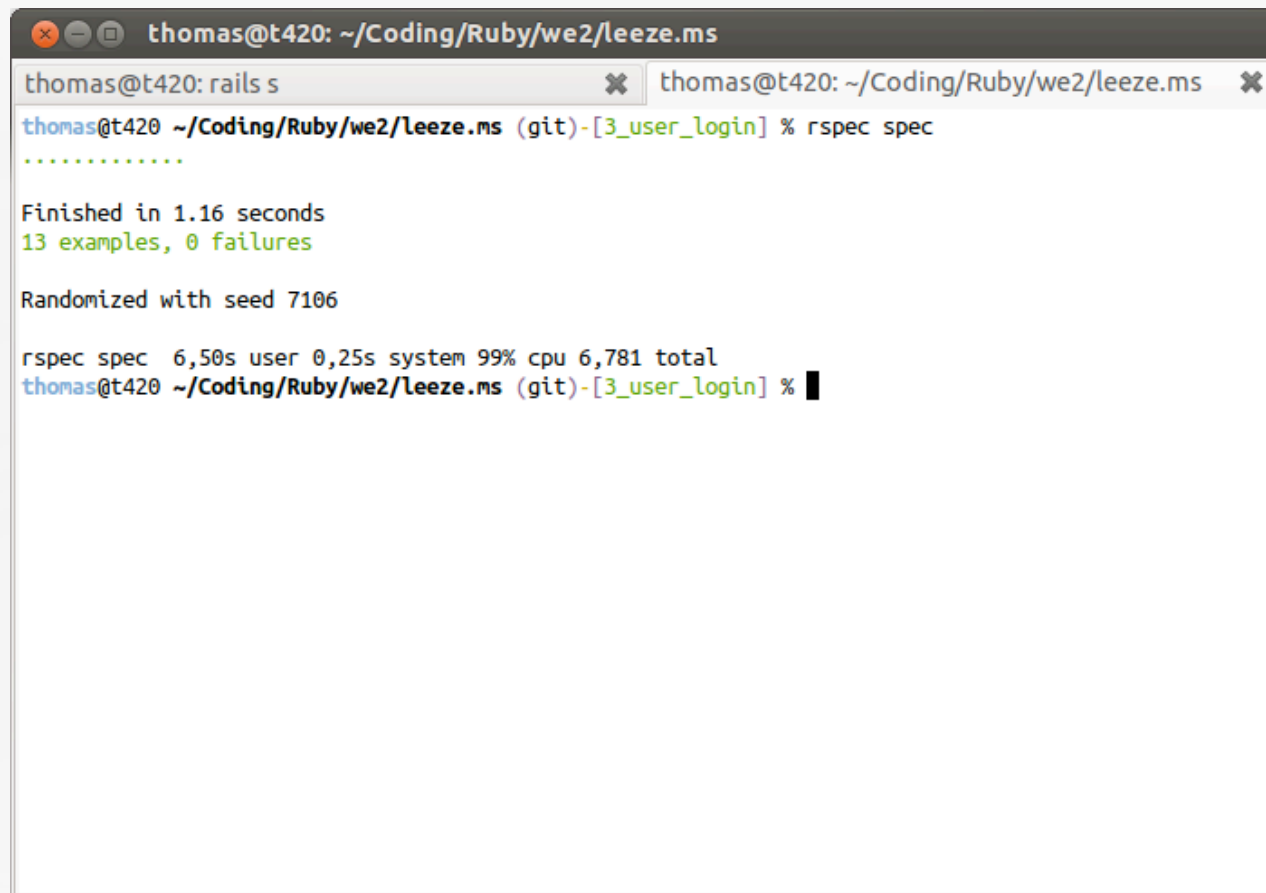
Story 5: Einloggen

- Login-Link in Navigation einbauen

```
_navigation.html.erb x
1 <div class="navbar navbar-default navbar-static-top">
2   <div class="container">
3     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse">
4       <span class="icon-bar"></span>
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7     </button>
8     <a class="navbar-brand" href="#">LeezeMs</a>
9
10    <div class="navbar-collapse collapse navbar-responsive-collapse">
11      <ul class="nav navbar-nav">
12        <% Category.all.each do |category| %>
13          <li><%= link_to category.name, category_tours_path(category) %></li>
14        <% end %>
15        <% if current_user %>
16          <li>Welcome, <%= current_user.email %></li>
17        <% else %>
18          <li><%= link_to 'Sign in', new_user_session_path %></li>
19          <li><%= link_to 'Sign up', new_user_registration_path %></li>
20        <% end %>
21      </ul>
22    </div>
23  </div>
24</div>
```

Story 5: Einloggen

- 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 'rspec spec' being executed. The output indicates that the tests passed successfully. The terminal text is as follows:

```
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

spec/features/login_spec.rb



```
1  require 'rails_helper'
2
3  describe 'Sign in' do
4    context 'existing user' do
5      let!(:user) { FactoryGirl.create(:user) }
6
7      it 'allows to sign in' do ... end
16
17     it 'allows to sign out' do
18       visit root_path
19       click_link 'Sign in'
20       fill_in 'user_email', with: user.email
21       fill_in 'user_password', with: 'Spacken123'
22       click_button 'Sign in'
23
24       click_link 'Sign out'
25
26       expect(page).to_not have_content "Welcome, #{user.email}"
27       expect(page).to have_content 'Sign in'
28     end
29   end
30 end
31
```

Story 5: Ausloggen

- Tests ausführen

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)

Failed examples:

rspec ./spec/features/login_spec.rb:15 # Sign in existing user allows to sign out
x mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec spec/features/login_spec.rb
.F

Failures:

  1) Sign in existing user allows to sign out
     Failure/Error: click_button 'Sign out'
     Capybara::ElementNotFound:
       Unable to find button "Sign out"
     # ./spec/features/login_spec.rb:17:in 'block (3 levels) in <top (required)>'

Finished in 0.54657 seconds (files took 1.56 seconds to load)
2 examples, 1 failure

Failed examples:

rspec ./spec/features/login_spec.rb:15 # Sign in existing user allows to sign out
x mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec spec/features/login_spec.rb
..

Finished in 0.58025 seconds (files took 1.55 seconds to load)
2 examples, 0 failures
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master •
```

Story 5: Ausloggen

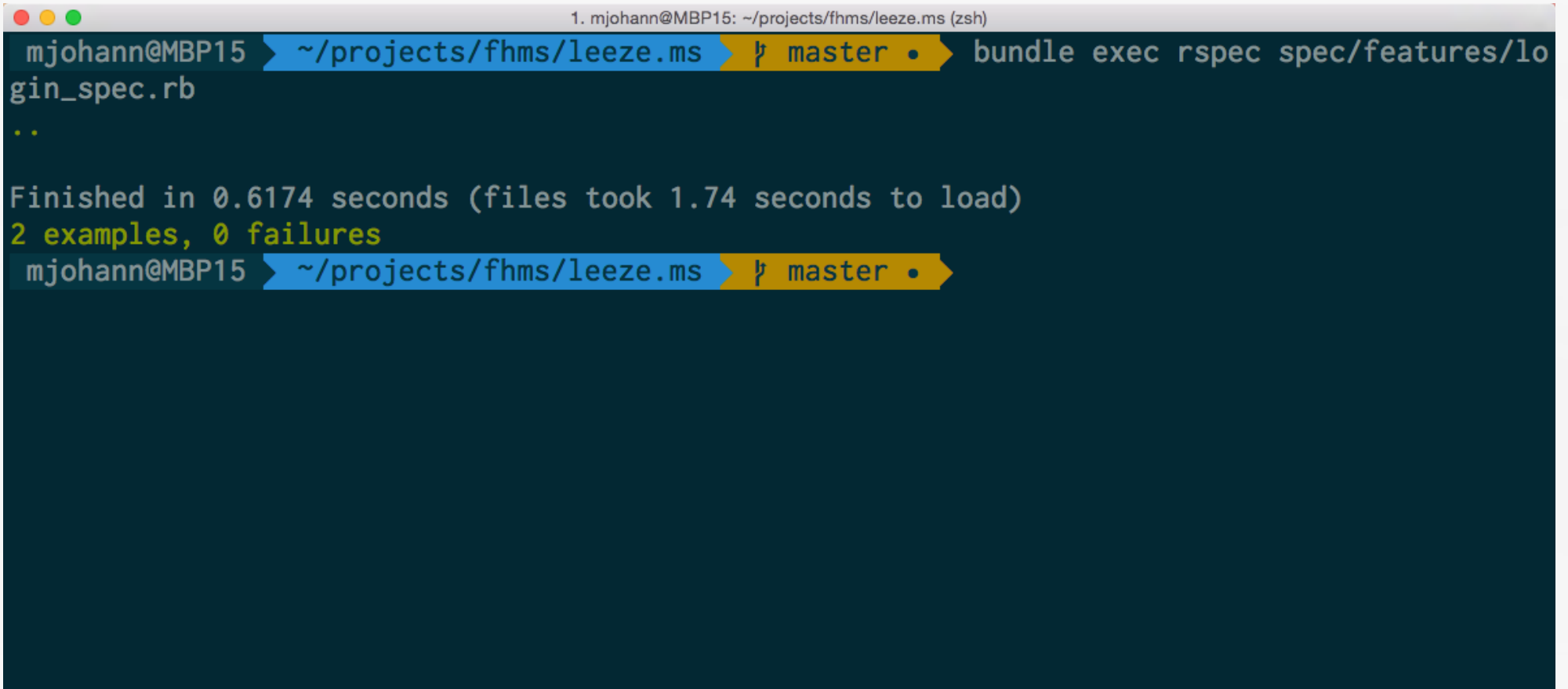
- Logout-Link in Navigation einbauen

app/views/shared/_navigation.html.erb

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

Story 5: Ausloggen

- Test ausführen

A terminal window with a dark blue background and light gray text. The window title bar shows '1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)'. The prompt is 'mjohann@MBP15'. The current directory is '~/projects/fhms/leeze.ms'. The git branch is 'master'. The command 'bundle exec rspec spec/features/login_spec.rb' has been executed. The output shows 'Finished in 0.6174 seconds (files took 1.74 seconds to load)' and '2 examples, 0 failures'.

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
mjohann@MBP15 > ~/projects/fhms/leeze.ms | master • bundle exec rspec spec/features/login_spec.rb
..
Finished in 0.6174 seconds (files took 1.74 seconds to load)
2 examples, 0 failures
mjohann@MBP15 > ~/projects/fhms/leeze.ms | master •
```


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

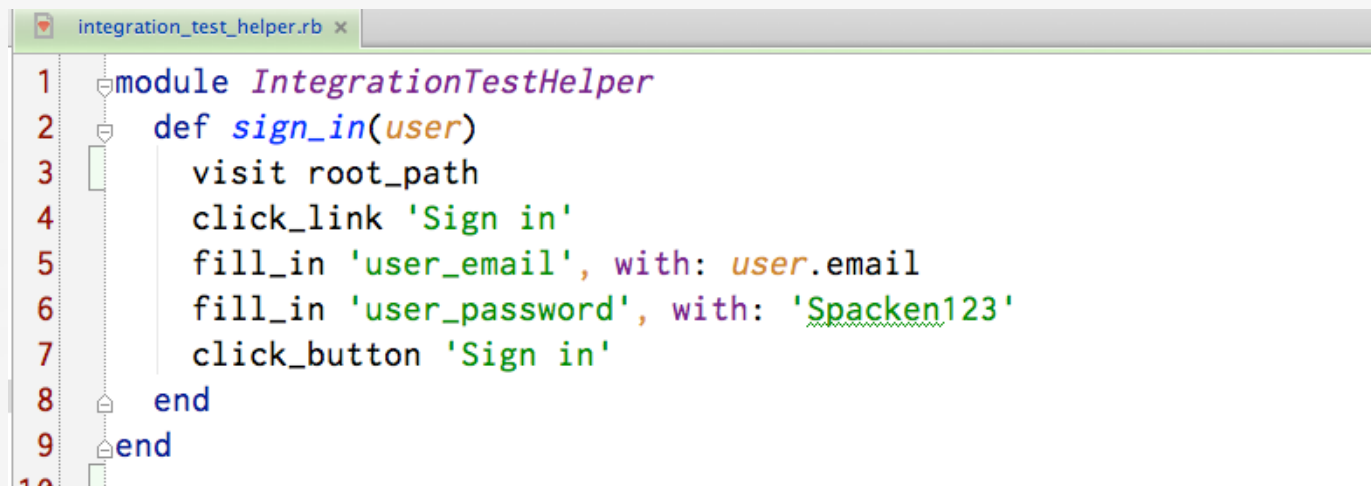
Test-Helper

- 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

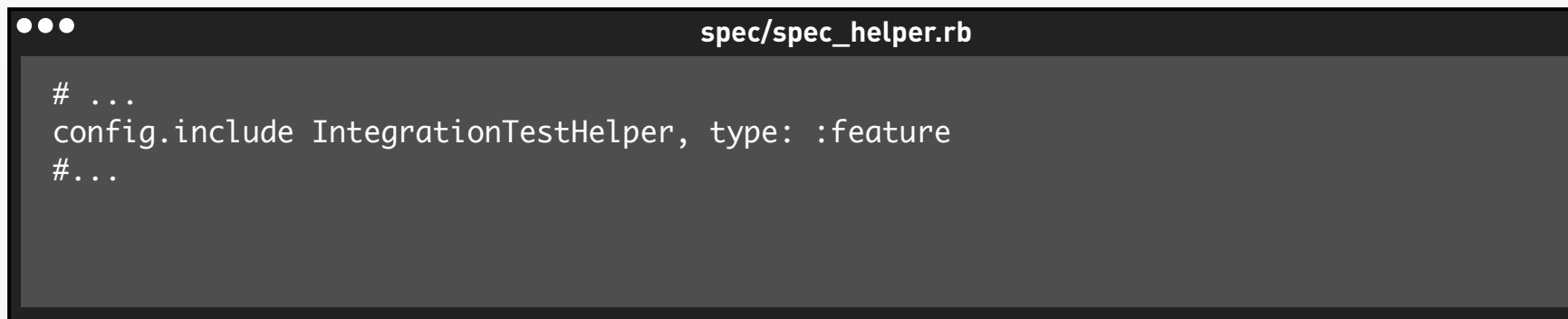
spec/support/integration_test_helper.rb

A screenshot of a code editor window titled 'integration_test_helper.rb'. The code defines a module 'IntegrationTestHelper' with a method 'sign_in' that performs a series of actions: visiting the root path, clicking the 'Sign in' link, filling in the 'user_email' field with 'user.email', filling in the 'user_password' field with 'Spacken123', and clicking the 'Sign in' button. The code is written in Ruby and uses color-coded syntax highlighting. Line numbers 1 through 10 are visible on the left side of the editor.

```
1 module IntegrationTestHelper
2   def sign_in(user)
3     visit root_path
4     click_link 'Sign in'
5     fill_in 'user_email', with: user.email
6     fill_in 'user_password', with: 'Spacken123'
7     click_button 'Sign in'
8   end
9 end
```

Story 5: Refactoring

- Test-Helper einbinden

A code editor window with a dark background and a title bar. The title bar contains three small circles on the left and the text 'spec/spec_helper.rb' on the right. The editor area contains the following Ruby code:

```
# ...  
config.include IntegrationTestHelper, type: :feature  
#...
```

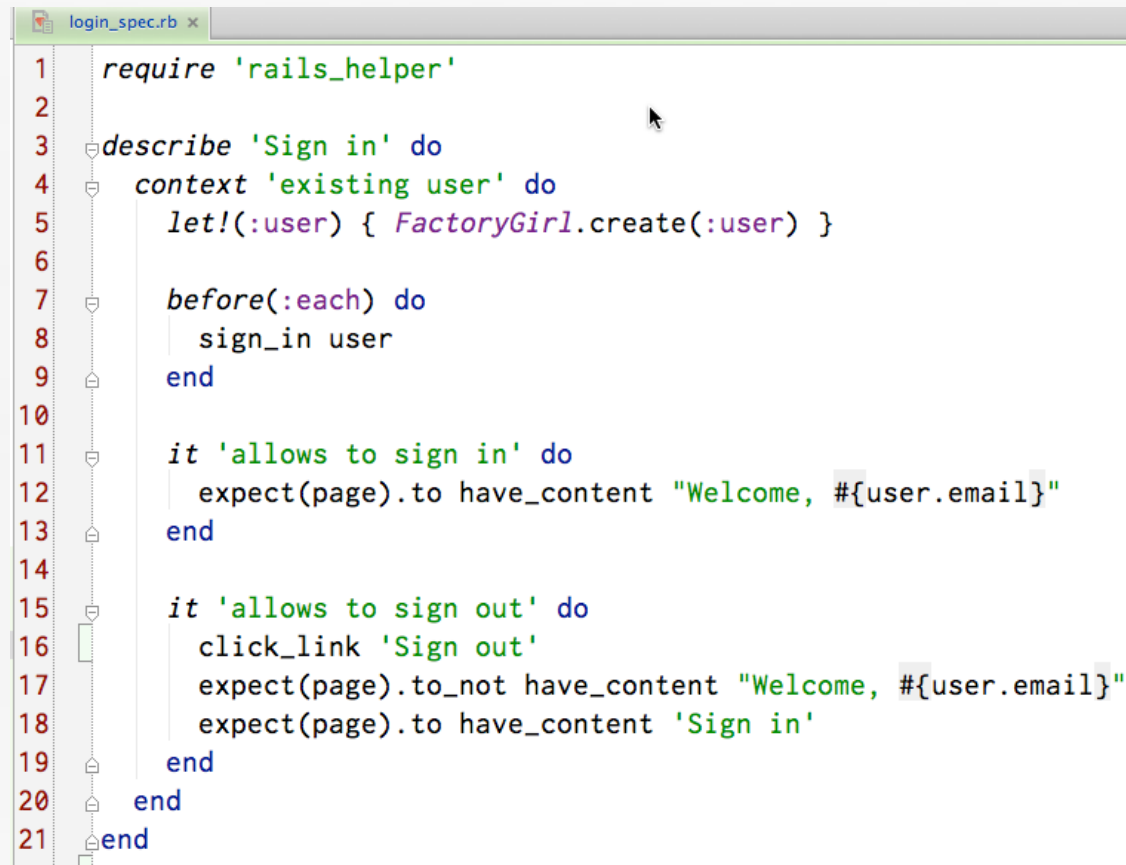
The code editor window has a dark gray background. The title bar is black with three white dots on the left and the text 'spec/spec_helper.rb' in white on the right. The code is written in a light gray font on the dark background.

Story 5: Refactoring

- Test-Helper in Test einbinden

...

spec/features/login_spec.rb



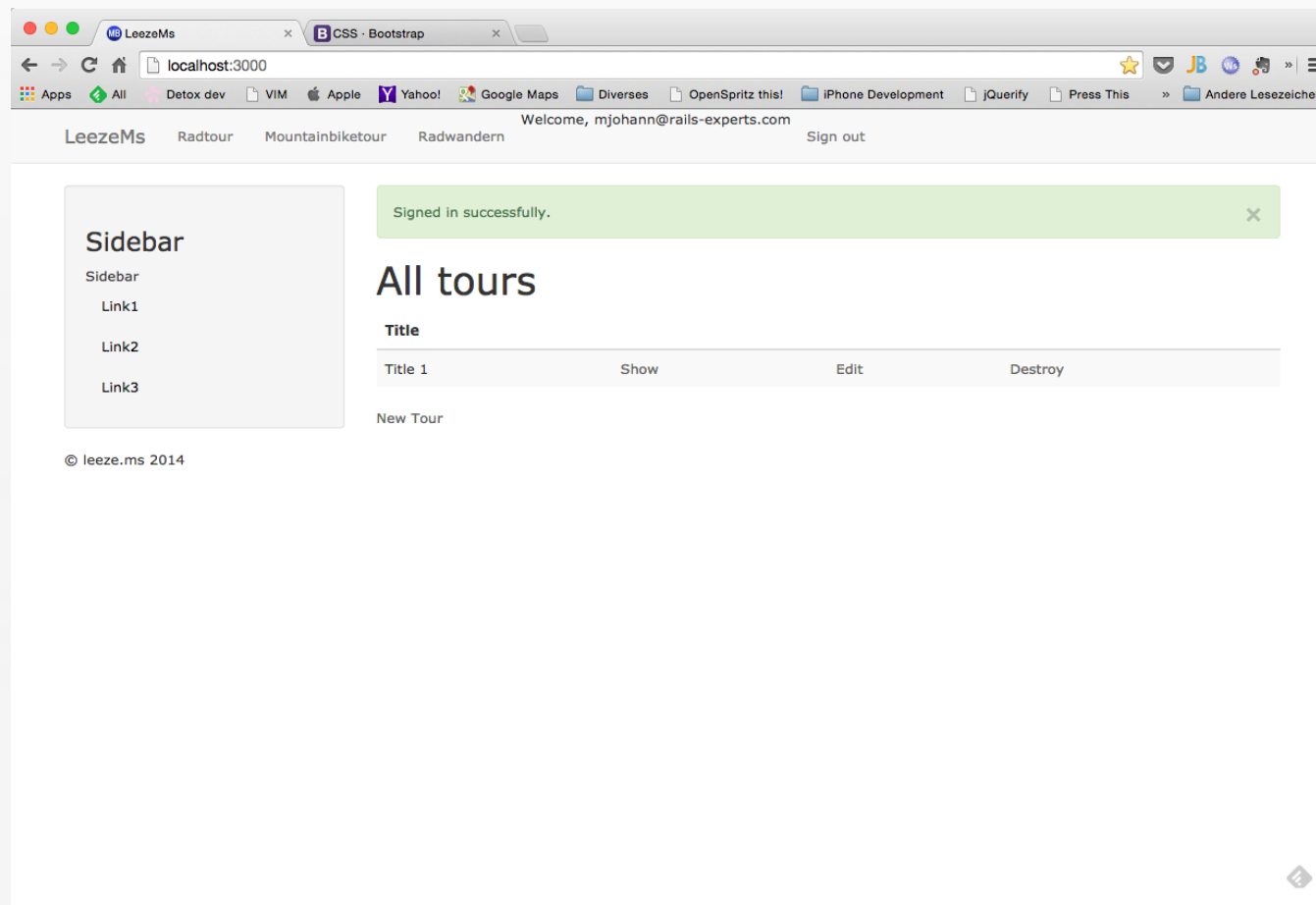
```
1  require 'rails_helper'
2
3  describe 'Sign in' do
4    context 'existing user' do
5      let!(:user) { FactoryGirl.create(:user) }
6
7      before(:each) do
8        sign_in user
9      end
10
11     it 'allows to sign in' do
12       expect(page).to have_content "Welcome, #{user.email}"
13     end
14
15     it 'allows to sign out' do
16       click_link 'Sign out'
17       expect(page).to_not have_content "Welcome, #{user.email}"
18       expect(page).to have_content 'Sign in'
19     end
20   end
21 end
```

Story 5: Refactoring

- Tests ausführen

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec spec/features/login_spec.rb
..
Finished in 0.58246 seconds (files took 1.62 seconds to load)
2 examples, 0 failures
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master •
```

Ergebnis

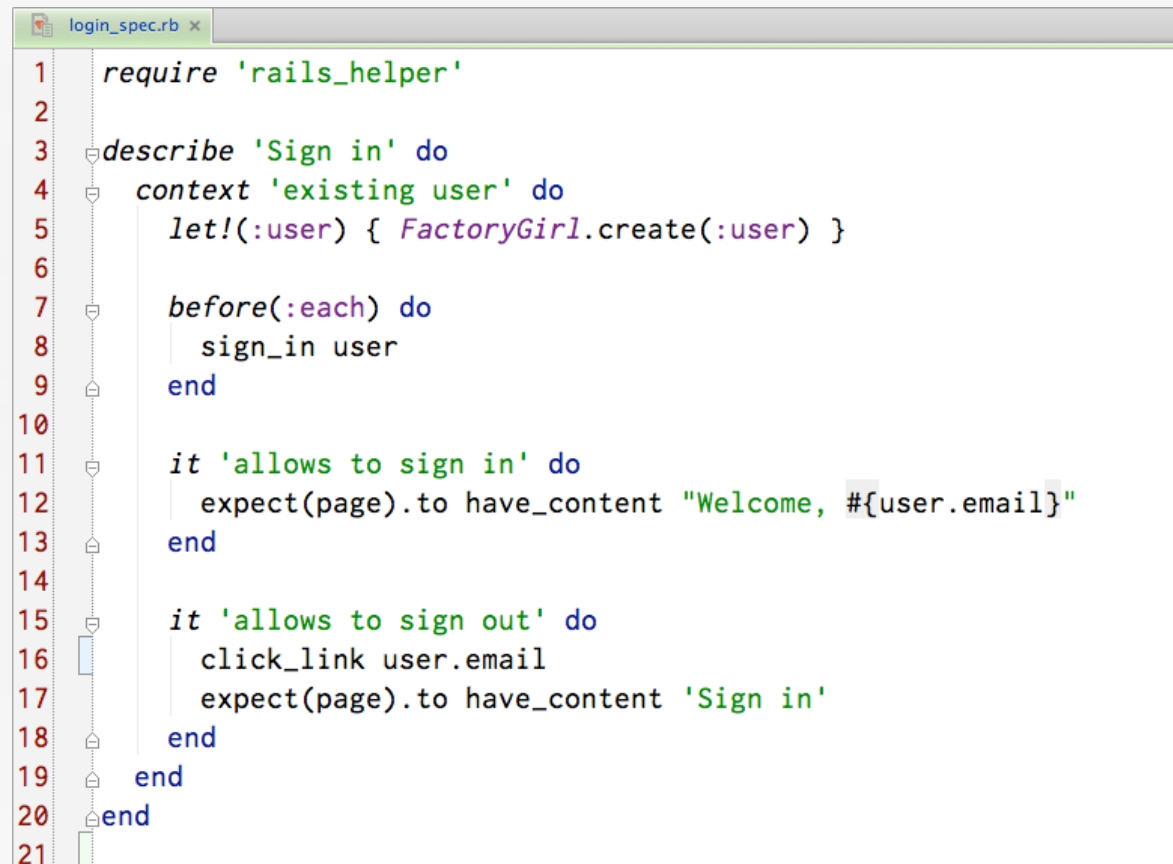


- --> Navigation fällt auseinander!

Story 5: Refactoring

- Idee: Logout bei Klick auf Mailadresse

spec/features/login_spec.rb



```
1  require 'rails_helper'
2
3  describe 'Sign in' do
4    context 'existing user' do
5      let!(:user) { FactoryGirl.create(:user) }
6
7      before(:each) do
8        sign_in user
9      end
10
11     it 'allows to sign in' do
12       expect(page).to have_content "Welcome, #{user.email}"
13     end
14
15     it 'allows to sign out' do
16       click_link user.email
17       expect(page).to have_content 'Sign in'
18     end
19   end
20 end
21
```


Story 5: Refactoring

- Tests ausführen

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
category_tours GET    /:category_id(.:format)      tours#index
root GET             /                             tours#index
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec spec/features/login_spec.rb
.F

Failures:

  1) Sign in existing user allows to sign out
     Failure/Error: click_link user.email
     Capybara::ElementNotFound:
       Unable to find link "ayla@robel.net"
     # ./spec/features/login_spec.rb:16:in `block (3 levels) in <top (required)>'

Finished in 0.61387 seconds (files took 2.73 seconds to load)
2 examples, 1 failure

Failed examples:
```

Story 5: Refactoring

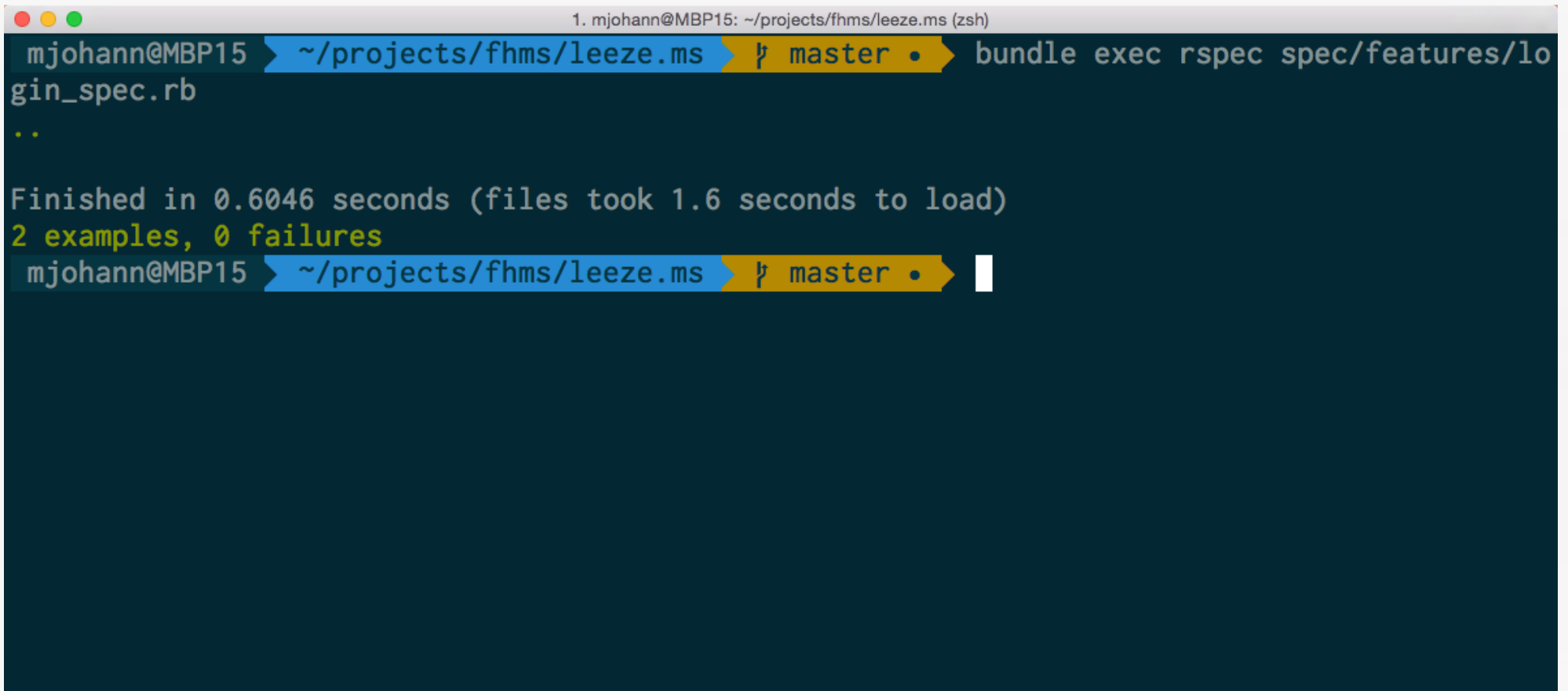
- Navigation anpassen

app/views/shared/_navigation.html.erb

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

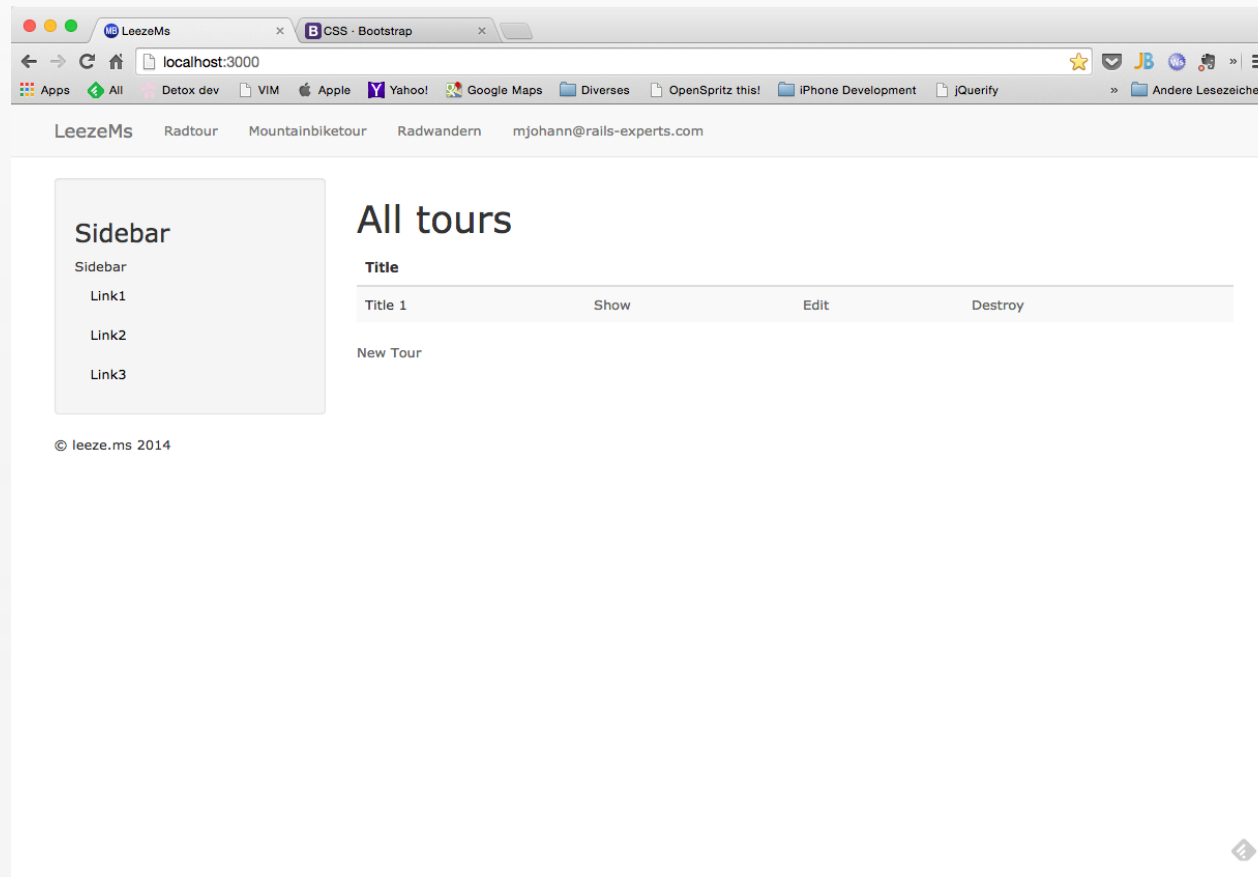
Story 5: Refactoring

- Tests ausführen

A terminal window with a dark blue background and light gray text. The window title is "1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)". The prompt is "mjohann@MBP15 > ~/projects/fhms/leeze.ms". The command "bundle exec rspec spec/features/login_spec.rb" has been entered. The output shows "Finished in 0.6046 seconds (files took 1.6 seconds to load)" and "2 examples, 0 failures" in green text. The prompt is now "mjohann@MBP15 > ~/projects/fhms/leeze.ms" with a cursor.

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
mjohann@MBP15 > ~/projects/fhms/leeze.ms bundle exec rspec spec/features/login_spec.rb
..
Finished in 0.6046 seconds (files took 1.6 seconds to load)
2 examples, 0 failures
mjohann@MBP15 > ~/projects/fhms/leeze.ms
```

Ergebnis



- --> Weitere Idee: Navigation rechtsbündig machen

Story 5: Refactoring

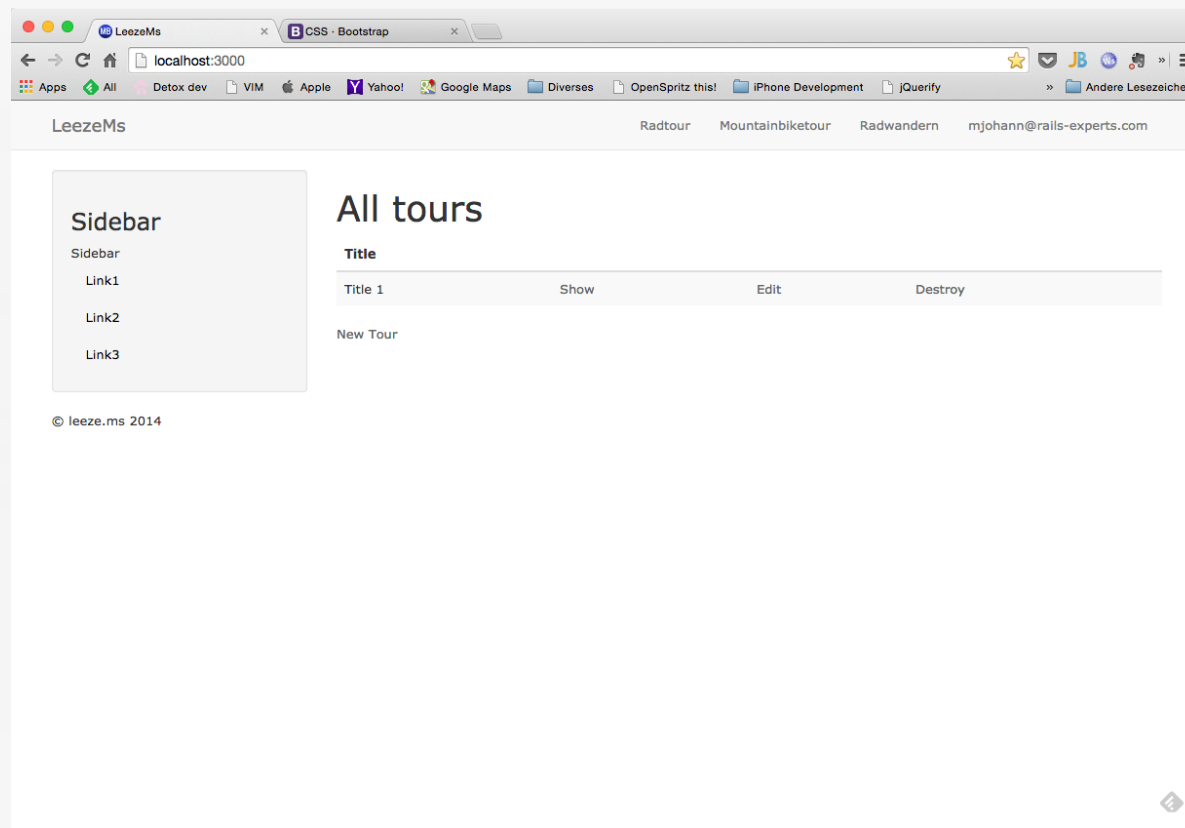
- Navigation anpassen

app/views/shared/_navigation.html.erb

```
1 <div class="navbar navbar-default navbar-static-top">
2   <div class="container">
3     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#navbar-collapse">
4       <span class="icon-bar"></span>
5       <span class="icon-bar"></span>
6       <span class="icon-bar"></span>
7     </button>
8     <a class="navbar-brand" href="#">LeezeMs</a>
9
10    <div class="navbar-collapse collapse navbar-responsive-collapse">
11      <ul class="nav navbar-nav pull-right">
12        <% Category.all.each do |category| %>
13          <li><%= link_to category.name, category_tours_path(category) %></li>
14        <% end %>
15        <% if current_user %>
16          <li><%= link_to current_user.email, destroy_user_session_path, method: :delete %></li>
17        <% else %>
18          <li><%= link_to 'Sign in', new_user_session_path %></li>
19          <li><%= link_to 'Sign up', new_user_registration_path %></li>
20        <% end %>
21      </ul>
22    </div>
23  </div>
24</div>
```

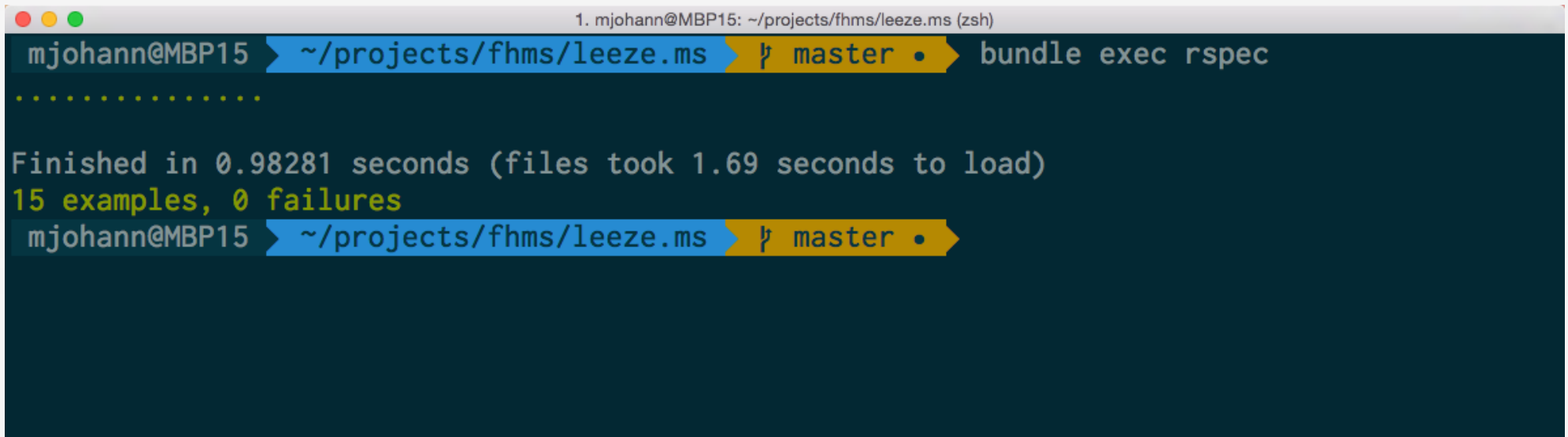
Story 5: Refactoring

- Ergebnis:



Story 5: Refactoring

- Tests ausführen

A terminal window with a dark blue background and light gray text. The window title bar shows three colored circles (red, yellow, green) on the left and the text '1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)' on the right. The terminal content shows a command prompt 'mjohann@MBP15' followed by a blue arrow pointing to the path '~/projects/fhms/leeze.ms', then a yellow arrow pointing to 'master', and finally the command 'bundle exec rspec'. Below this, there are several dots '.....'. Then, the text 'Finished in 0.98281 seconds (files took 1.69 seconds to load)' is displayed, followed by '15 examples, 0 failures' in yellow. The prompt 'mjohann@MBP15' appears again with the same path and branch indicators, but no command is entered yet.

```
1. mjohann@MBP15: ~/projects/fhms/leeze.ms (zsh)
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master • bundle exec rspec
.....
Finished in 0.98281 seconds (files took 1.69 seconds to load)
15 examples, 0 failures
mjohann@MBP15 > ~/projects/fhms/leeze.ms > master •
```

Taskboard

