

CURSO DE INTRODUÇÃO AO RUBY ON RAILS

CodigoFacilito (Uriel Hernandez)

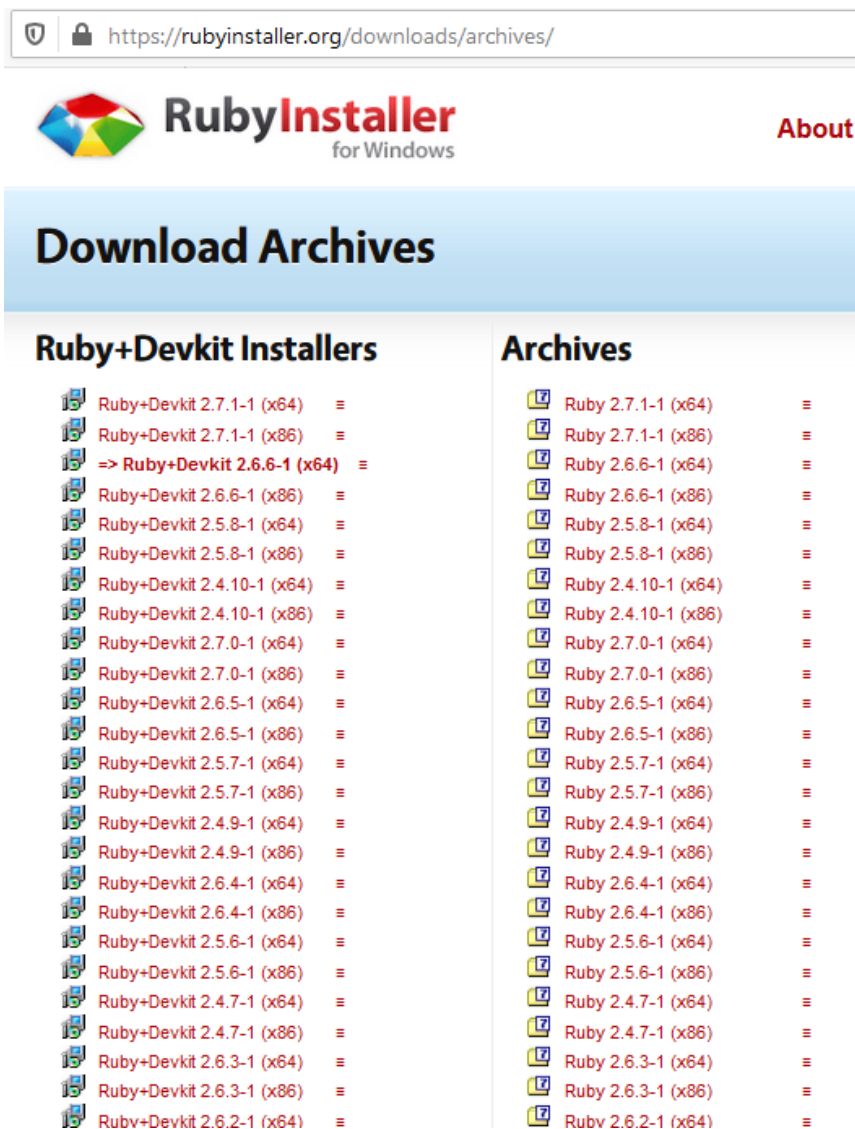
<https://codigofacilito.com/cursos/introduccion-rails>

Resumo do curso feito por Roberto Pinheiro

AULA 01 - INSTALAÇÃO

1.1 Instalando o Ruby

<https://rubyinstaller.org/downloads/archives/>



The screenshot shows the RubyInstaller website for Windows. The page has a header with the RubyInstaller logo and an 'About' link. Below the header is a blue banner with the text 'Download Archives'. The main content is divided into two columns: 'Ruby+Devkit Installers' and 'Archives'. Each column lists various versions of Ruby and Devkit, with icons representing the installer or archive files. The 'Ruby+Devkit Installers' column lists versions from 2.7.1-1 (x64) down to 2.6.2-1 (x64). The 'Archives' column lists versions from 2.7.1-1 (x64) down to 2.6.2-1 (x64).

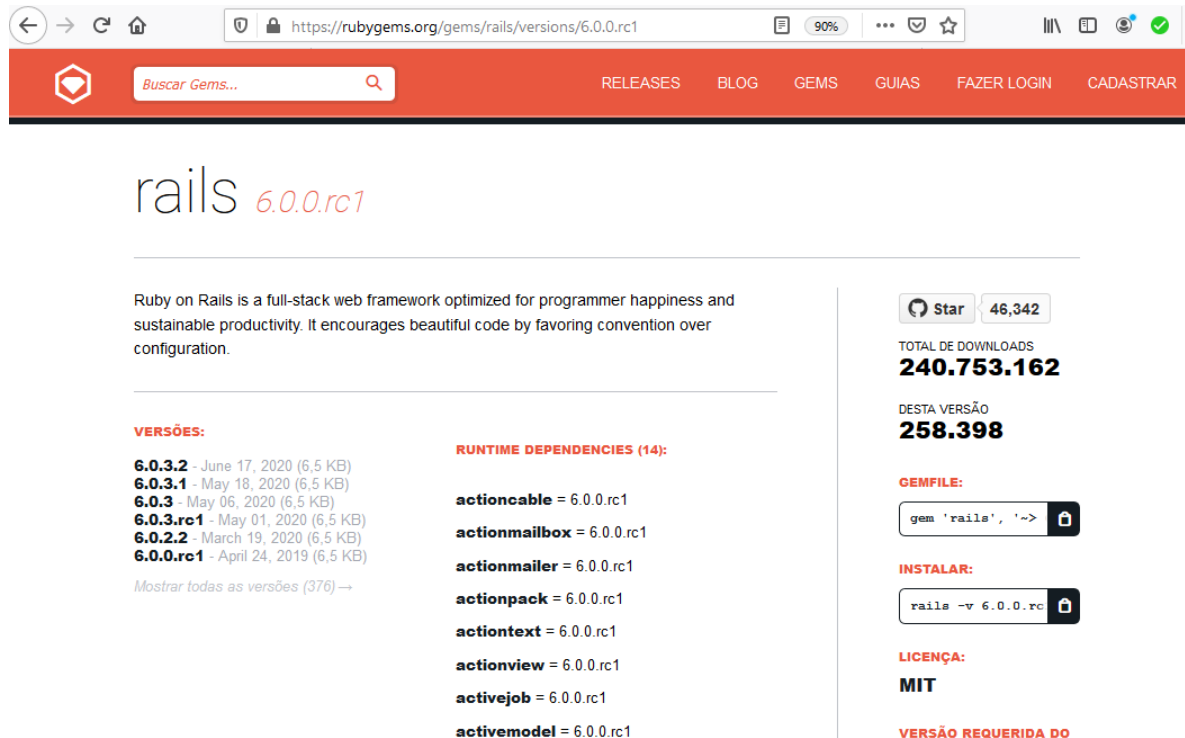
| Ruby+Devkit Installers | Archives |
|------------------------------|---------------------|
| Ruby+Devkit 2.7.1-1 (x64) | Ruby 2.7.1-1 (x64) |
| Ruby+Devkit 2.7.1-1 (x86) | Ruby 2.7.1-1 (x86) |
| => Ruby+Devkit 2.6.6-1 (x64) | Ruby 2.6.6-1 (x64) |
| Ruby+Devkit 2.6.6-1 (x86) | Ruby 2.6.6-1 (x86) |
| Ruby+Devkit 2.5.8-1 (x64) | Ruby 2.5.8-1 (x64) |
| Ruby+Devkit 2.5.8-1 (x86) | Ruby 2.5.8-1 (x86) |
| Ruby+Devkit 2.4.10-1 (x64) | Ruby 2.4.10-1 (x64) |
| Ruby+Devkit 2.4.10-1 (x86) | Ruby 2.4.10-1 (x86) |
| Ruby+Devkit 2.7.0-1 (x64) | Ruby 2.7.0-1 (x64) |
| Ruby+Devkit 2.7.0-1 (x86) | Ruby 2.7.0-1 (x86) |
| Ruby+Devkit 2.6.5-1 (x64) | Ruby 2.6.5-1 (x64) |
| Ruby+Devkit 2.6.5-1 (x86) | Ruby 2.6.5-1 (x86) |
| Ruby+Devkit 2.5.7-1 (x64) | Ruby 2.5.7-1 (x64) |
| Ruby+Devkit 2.5.7-1 (x86) | Ruby 2.5.7-1 (x86) |
| Ruby+Devkit 2.4.9-1 (x64) | Ruby 2.4.9-1 (x64) |
| Ruby+Devkit 2.4.9-1 (x86) | Ruby 2.4.9-1 (x86) |
| Ruby+Devkit 2.6.4-1 (x64) | Ruby 2.6.4-1 (x64) |
| Ruby+Devkit 2.6.4-1 (x86) | Ruby 2.6.4-1 (x86) |
| Ruby+Devkit 2.5.6-1 (x64) | Ruby 2.5.6-1 (x64) |
| Ruby+Devkit 2.5.6-1 (x86) | Ruby 2.5.6-1 (x86) |
| Ruby+Devkit 2.4.7-1 (x64) | Ruby 2.4.7-1 (x64) |
| Ruby+Devkit 2.4.7-1 (x86) | Ruby 2.4.7-1 (x86) |
| Ruby+Devkit 2.6.3-1 (x64) | Ruby 2.6.3-1 (x64) |
| Ruby+Devkit 2.6.3-1 (x86) | Ruby 2.6.3-1 (x86) |
| Ruby+Devkit 2.6.2-1 (x64) | Ruby 2.6.2-1 (x64) |

- Baixe a versão Ruby+Devkit 2.6.3-1 (x64) e instale.

1.2 Instalando o rails

- Instale o rails.

<https://rubygems.org/gems/rails/versions/6.0.0.rc1>



The screenshot shows the RubyGems page for the Rails 6.0.0.rc1 version. The page has a red header with navigation links: RELEASÉS, BLOG, GEMS, GUIAS, FAZER LOGIN, and CADASTRAR. The main content area features the Rails logo and the version number 6.0.0.rc1. Below this, there is a description of Ruby on Rails as a full-stack web framework. To the right, there are statistics: 46,342 stars and 240,753,162 total downloads. The 'DESTA VERSÃO' (This Version) section shows 258,398 downloads. The 'GEMFILE' section shows the command 'gem 'rails', '~>' and the 'INSTALAR' (Install) section shows the command 'rails -v 6.0.0.rc1'. The 'LICENÇA' (License) section shows MIT. The 'VERSÃO REQUERIDA DO' (Required Version) section is empty.

VERSÕES:

- 6.0.3.2 - June 17, 2020 (6,5 KB)
- 6.0.3.1 - May 18, 2020 (6,5 KB)
- 6.0.3 - May 06, 2020 (6,5 KB)
- 6.0.3.rc1 - May 01, 2020 (6,5 KB)
- 6.0.2.2 - March 19, 2020 (6,5 KB)
- 6.0.0.rc1 - April 24, 2019 (6,5 KB)

[Mostrar todas as versões \(376\) →](#)

RUNTIME DEPENDENCIES (14):

- actioncable = 6.0.0.rc1
- actionmailbox = 6.0.0.rc1
- actionmailer = 6.0.0.rc1
- actionpack = 6.0.0.rc1
- actiontext = 6.0.0.rc1
- actionview = 6.0.0.rc1
- activejob = 6.0.0.rc1
- activemodel = 6.0.0.rc1

Star 46,342

TOTAL DE DOWNLOADS
240.753.162

DESTA VERSÃO
258.398

GEMFILE:

```
gem 'rails', '~>'
```

INSTALAR:

```
rails -v 6.0.0.rc1
```

LICENÇA:
MIT

VERSÃO REQUERIDA DO

gem install rails -v 6.0.0.rc1

```
heto@DESKTOP-RROR617 MINGW64 ~
$ gem install rails -v 6.0.0.rc1
Successfully installed concurrent-ruby-1.1.7

HEADS UP! i18n 1.1 changed fallbacks to exclude default locale.
But that may break your application.

If you are upgrading your Rails application from an older version of Rails:

Please check your Rails app for 'config.i18n.fallbacks = true'.
If you're using I18n (>= 1.1.0) and Rails (< 5.2.2), this should be
'config.i18n.fallbacks = [I18n.default_locale]'.
If not, fallbacks will be broken in your app by I18n 1.1.x.

If you are starting a NEW Rails application, you can ignore this notice.

For more info see:
https://github.com/svenfuchs/i18n/releases/tag/v1.1.0

Successfully installed i18n-1.8.5
Successfully installed thread_safe-0.3.6
Successfully installed tzinfo-1.2.7
Successfully installed zeitwerk-2.4.0
Successfully installed activesupport-6.0.0.rc1
Successfully installed rack-2.2.3
Successfully installed rack-test-1.1.0
Successfully installed mini_portile2-2.4.0
Nokogiri is built with the packaged libraries: libxml2-2.9.10, libxslt-1.1.34, zlib-1.2.11, libiconv-1.15.
Successfully installed nokogiri-1.10.10-x64-mingw32
Successfully installed crass-1.0.6
Successfully installed loofah-2.7.0
Successfully installed rails-html-sanitizer-1.3.0
Successfully installed rails-dom-testing-2.0.3
Successfully installed builder-3.2.4
Successfully installed erubi-1.9.0
Successfully installed actionview-6.0.0.rc1
Successfully installed actionpack-6.0.0.rc1
Successfully installed activemodel-6.0.0.rc1
Successfully installed activerecord-6.0.0.rc1
Successfully installed globalid-0.4.2
Successfully installed activejob-6.0.0.rc1
Successfully installed mini_mime-1.0.2
Successfully installed mail-2.7.1
Successfully installed actionmailer-6.0.0.rc1
Temporarily enhancing PATH for MSYS/MINGW...
Building native extensions. This could take a while...
Successfully installed nio4r-2.5.2
Successfully installed websocket-extensions-0.1.5
Building native extensions. This could take a while...
```

-
-
-

```
Installing ri documentation for mini_mime-1.0.2
Parsing documentation for mail-2.7.1
Installing ri documentation for mail-2.7.1
Parsing documentation for actionmailer-6.0.0.rc1
Installing ri documentation for actionmailer-6.0.0.rc1
Parsing documentation for nio4r-2.5.2
Installing ri documentation for nio4r-2.5.2
Parsing documentation for websocket-extensions-0.1.5
Installing ri documentation for websocket-extensions-0.1.5
Parsing documentation for websocket-driver-0.7.3
Installing ri documentation for websocket-driver-0.7.3
Parsing documentation for actioncable-6.0.0.rc1
Installing ri documentation for actioncable-6.0.0.rc1
Parsing documentation for mimemagic-0.3.5
Installing ri documentation for mimemagic-0.3.5
Parsing documentation for marcel-0.3.3
Installing ri documentation for marcel-0.3.3
Parsing documentation for activestorage-6.0.0.rc1
Installing ri documentation for activestorage-6.0.0.rc1
Parsing documentation for actionmailbox-6.0.0.rc1
Installing ri documentation for actionmailbox-6.0.0.rc1
Parsing documentation for actiontext-6.0.0.rc1
Installing ri documentation for actiontext-6.0.0.rc1
Parsing documentation for thor-1.0.1
Installing ri documentation for thor-1.0.1
Parsing documentation for method_source-1.0.0
Installing ri documentation for method_source-1.0.0
Parsing documentation for railties-6.0.0.rc1
Installing ri documentation for railties-6.0.0.rc1
Parsing documentation for sprockets-4.0.2
Installing ri documentation for sprockets-4.0.2
Parsing documentation for sprockets-rails-3.2.1
Installing ri documentation for sprockets-rails-3.2.1
Parsing documentation for rails-6.0.0.rc1
Installing ri documentation for rails-6.0.0.rc1
Done installing documentation for concurrent-ruby, i18n, thread_safe, tzinfo, zeitwerk, activesupport, rack, rack-test, mini_portile2, nokogiri, crass, loofah, rails-html-sanitizer, rails-dom-testing, builder, erubi, actionview, actionpack, activemodel, activerecord, globalid, activejob, mini_mime, mail, actionmailer, nio4r, websocket-extensions, websocket-driver, actioncable, mimemagic, marcel, activestorage, actionmailbox, actiontext, thor, method_source, railties, sprockets, sprockets-rails, rails after 201 seconds
40 gems installed
```

```
beto1@DESKTOP-RROR61J MINGW64 ~
$ ruby -v
ruby 2.6.3p62 (2019-04-16 revision 67580) [x64-mingw32]

beto1@DESKTOP-RROR61J MINGW64 ~
$ gem -v
rails 3.0.3
$
beto1@DESKTOP-RROR61J MINGW64 ~
$ rails -v
Rails 6.0.0.rc1
```

- Instale a versão mais atual do node

```
beto1@DESKTOP-RROR61J MINGW64 ~
$ node -v
v12.16.1
```

```
beto1@DESKTOP-RROR61J MINGW64 ~
$ npm -v
6.13.4
```

- Instale o yarn:

```
beto1@DESKTOP-RROR61J MINGW64 ~
$ npm install -g yarn
C:\Users\beto1\AppData\Roaming\npm\yarn -> C:\Users\beto1\AppData\Roaming\npm\node_modules\yarn\bin\yarn.js
C:\Users\beto1\AppData\Roaming\npm\yarnpkg -> C:\Users\beto1\AppData\Roaming\npm\node_modules\yarn\bin\yarn.js
+ yarn@1.22.5
added 1 package in 1.979s

beto1@DESKTOP-RROR61J MINGW64 ~
$ yarn -v
1.22.5
```

- Instale o rvm:

```
beto1@DESKTOP-RROR61J MINGW64 ~
$ rvm -v
rvm 1.29.10-next (master) by Michal Papis, Piotr Kuczynski, Wayne E. Seguin [https://rvm.io]
```

- Instale o Laragon.

AULA 02 - PRIMEIROS PASSOS

2.1 Criar projeto de Ruby on Rails

Criando a aplicação

Na pasta do projeto, entre com o seguinte comando:

`rails new appblog --database=mysql`

```
heto1@DESKTOP-RROR61J MINGW64 /c/sites
$ rails new appblog --database=mysql
create
create  README.md
create  Rakefile
create  .ruby-version
create  config.ru
create  .gitignore
create  Gemfile
run     git init from "."
Initialized empty Git repository in C:/Sites/appblog/.git/
create  package.json
create  app
create  app/assets/config/manifest.js
create  app/assets/stylesheets/application.css
create  app/channels/application_cable/channel.rb
create  app/channels/application_cable/connection.rb
create  app/controllers/application_controller.rb
create  app/helpers/application_helper.rb
create  app/javascript/channels/consumer.js
create  app/javascript/channels/index.js
create  app/javascript/packs/application.js
create  app/jobs/application_job.rb
create  app/mailers/application_mailer.rb
create  app/models/application_record.rb
create  app/views/layouts/application.html.erb
create  app/views/layouts/mailer.html.erb
create  app/views/layouts/mailer.text.erb
create  app/assets/images/.keep
create  app/controllers/concerns/.keep
create  app/models/concerns/.keep
create  bin
create  bin/rails
create  bin/rake
create  bin/setup
```

```

.
.
.
00f00c opm@5.5.0
00f00c original@1.0.2
00f00c p-finally@1.0.0
00f00c p-map@2.1.0
00f00c p-retry@3.0.1
00f00c path-is-inside@1.0.2
00f00c path-to-regexp@0.1.7
00f00c portfinder@1.0.28
00f00c proxy-addr@2.0.6
00f00c querystringify@2.2.0
00f00c raw-body@2.4.0
00f00c regexp.prototype.flags@1.3.0
00f00c retry@0.12.0
00f00c select-hose@2.0.0
00f00c selfsigned@1.10.7
00f00c serve-index@1.9.1
00f00c serve-static@1.14.1
00f00c sockjs-client@1.4.0
00f00c sockjs@0.3.20
00f00c spdy-transport@3.0.0
00f00c spdy@4.0.2
00f00c strip-eof@1.0.0
00f00c thunky@1.1.0
00f00c type-is@1.6.18
00f00c unpipe@1.0.0
00f00c utils-merge@1.0.1
00f00c wbuf@1.7.3
00f00c webpack-dev-middleware@3.7.2
00f00c webpack-dev-server@3.11.0
00000c ws@6.2.1
Done in 35.43s.
Webpacker successfully installed -fAe -fi
```

Criando o banco de dados

rake db:create

```
C:\Sites\appblog (master)
λ rake db:create
Created database 'appblog_development'
Created database 'appblog_test'
```

Rodando a aplicação

- No Laragon, execute o servidor Apache e o MySQL.

rails server

```
PS C:\Sites\appblog> rails server
=> Booting Puma
=> Rails 6.0.3.2 application starting in development
=> Run `rails server --help` for more startup options
*** SIGUSR2 not implemented, signal based restart unavailable!
*** SIGUSR1 not implemented, signal based restart unavailable!
*** SIGHUP not implemented, signal based logs reopening unavailable!
Puma starting in single mode...
* Version 3.12.6 (ruby 2.6.3-p62), codename: Llamas in Pajamas
* Min threads: 5, max threads: 5
* Environment: development
* Listening on tcp://localhost:3000
Use Ctrl-C to stop
```

No browser, entre com a URL:

localhost:3000



Yay! You're on Rails!



Rails version: 6.0.3.2

Ruby version: ruby 2.6.3p62 (2019-04-16 revision 67580) [x64-mingw32]

2.2 Primeira página

Criando o controller home

rails generate controller Home index

```
C:\Sites\appblog (master)
λ rails generate controller Home index
  create  app/controllers/home_controller.rb
  route   get 'home/index'
  invoke  erb
  create  app/views/home
  create  app/views/home/index.html.erb
  invoke  test_unit
  create  test/controllers/home_controller_test.rb
  invoke  helper
  create  app/helpers/home_helper.rb
  invoke  test_unit
  invoke  assets
  invoke  scss
  create  app/assets/stylesheets/home.scss
```

app\controllers\home_controller.rb

```
class HomeController < ApplicationController
  def index
  end
end
```

Rotas

config\routes.rb

```
Rails.application.routes.draw do
  get 'home/index'
  # For details on the DSL available within this file, see https://guides.rubyonrails.org/routing.html
end
```

View

app\views\home\index.html.erb

```
<h1>Home#index</h1>
<p>Find me in app/views/home/index.html.erb</p>
```



Home#index

Find me in app/views/home/index.html.erb

Rotas

config/routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  # For details on the DSL available within this file, see
  https://guides.rubyonrails.org/routing.html
end
```

View

app\views\home\index.html.erb

```
<h1>Olá mundo!</h1>
<p>Seja bem-vindo!</p>
```



Olá mundo!

Seja bem-vindo!

2.3 Integrar bootstrap

Usando yarn para adicionar o bootstrap

yarn add bootstrap

```
C:\Sites\appblog (master)
λ yarn add bootstrap
yarn add v1.22.5
[1/4] Resolving packages...
[2/4] Fetching packages...
info fsevents@2.1.3: The platform "win32" is incompatible with this module.
info "fsevents@2.1.3" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@1.2.13: The platform "win32" is incompatible with this module.
info "fsevents@1.2.13" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies...
warning " > webpack-dev-server@3.11.0" has unmet peer dependency "webpack@^4.0.0 || ^5.0.0".
warning "webpack-dev-server > webpack-dev-middleware@3.7.2" has unmet peer dependency "webpack@^4.0.0".
warning " > bootstrap@4.5.2" has unmet peer dependency "jquery@1.9.1 - 3".
warning " > bootstrap@4.5.2" has unmet peer dependency "popper.js@^1.16.1".
[4/4] Building fresh packages...

success Saved lockfile.
success Saved 1 new dependency.
info Direct dependencies
└─ bootstrap@4.5.2
info All dependencies
└─ bootstrap@4.5.2
Done in 46.21s.
```

- Será criada a pasta:

`node_modules\bootstrap`

E será adicionado em `package.json`:

package.json

```
{
  "name": "app_blog",
  "private": true,
  "dependencies": {
    "@rails/actioncable": "^6.0.0-alpha",
    "@rails/activestorage": "^6.0.0-alpha",
    "@rails/ujs": "^6.0.0-alpha",
    "@rails/webpacker": "4.3.0",
    "bootstrap": "^4.5.2",
    "turbolinks": "^5.2.0"
  },
  "version": "0.1.0",
  "devDependencies": {
    "webpack-dev-server": "^3.11.0"
  }
}
```


Usando yarn para adicionar dependências

yarn add jquery popper.js

```
C:\Sites\apblog (master)
λ yarn add jquery popper.js
yarn add v1.22.5
[1/4] Resolving packages...
warning popper.js@1.16.1: You can find the new Popper v2 at @popperjs/core, this package is dedicated to the legacy v1
[2/4] Fetching packages...
info fsevents@2.1.3: The platform "win32" is incompatible with this module.
info "fsevents@2.1.3" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@1.2.13: The platform "win32" is incompatible with this module.
info "fsevents@1.2.13" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies...
warning " > webpack-dev-server@3.11.0" has unmet peer dependency "webpack@^4.0.0 || ^5.0.0".
warning "webpack-dev-server > webpack-dev-middleware@3.7.2" has unmet peer dependency "webpack@^4.0.0".
[4/4] Building fresh packages...

success Saved lockfile.
success Saved 2 new dependencies.
info Direct dependencies
├─ jquery@3.5.1
└─ popper.js@1.16.1
info All dependencies
├─ jquery@3.5.1
└─ popper.js@1.16.1
Done in 23.03s.
```

app\javascript\packs\application.js

// This file is automatically compiled by Webpack, along with any other files
// present in this directory. You're encouraged to place your actual application logic in
// a relevant structure within app/javascript and only use these pack files to reference
// that code so it'll be compiled.

```
require("@rails/ujs").start()
require("turbolinks").start()
require("@rails/activestorage").start()
require("channels")
```

```
import 'bootstrap'
import 'css/styles'
```

```
// Uncomment to copy all static images under ../images to the output folder and reference
// them with the image_pack_tag helper in views (e.g <%= image_pack_tag 'rails.png' %>)
// or the `imagePath` JavaScript helper below.
//
// const images = require.context('../images', true)
// const imagePath = (name) => images(name, true)
```

app\javascript\css\styles.scss

```
@import '~bootstrap/scss/bootstrap';
```

Compilando

./bin/webpack-dev-server

```
betol@DESKTOP-RR0R61J MINGW64 /c/sites/appblog (master)
$ ./bin/webpack-dev-server
[webpack-cli] Project is running at http://localhost:3035/
[webpack-cli] webpack output is served from /packs/
[webpack-cli] Content not from webpack is served from C:\sites\appblog\public\packs
[webpack-cli] 404s will fallback to /index.html
[webpack-cli] Hash: 53691d1dfb77252f99e2
Version: webpack 4.44.1
Time: 21371ms
Built at: 2020-09-05 20:10:56

      Asset      Size      Chunks
      Chunk Names
js/application-c1d386a6038c21038faf.js  1.68 MiB  application  [emitted] [immutable] application
js/application-c1d386a6038c21038faf.js.map  1.86 MiB  application  [emitted] [development] application
manifest.json  364 bytes  [emitted]

WARNING in (webpack)/buildin/global.js
There are multiple modules with names that only differ in casing.
This can lead to unexpected behavior when compiling on a filesystem with other case-semantic.
Use equal casing. Compare these module identifiers:
* C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\Sites\appblog\node_modules\webpack\buildin\global.js
  Used by 2 module(s), i. e.
    C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\Sites\appblog\node_modules\node-libs-browser\node_modules\punycode\punycode.js
* C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\sites\appblog\node_modules\webpack\buildin\global.js
  Used by 1 module(s), i. e.
    C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\sites\appblog\node_modules\popper.js\dist\esm\popper.js

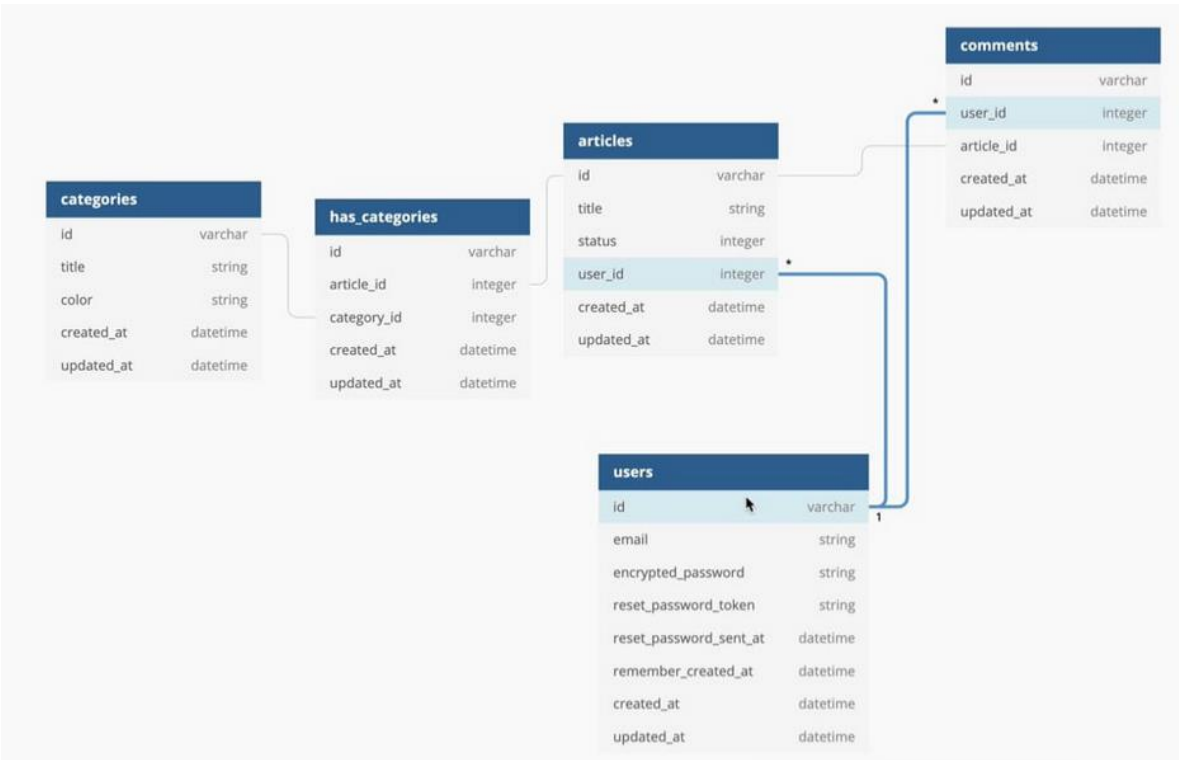
WARNING in (webpack)/buildin/module.js
There are multiple modules with names that only differ in casing.
This can lead to unexpected behavior when compiling on a filesystem with other case-semantic.
Use equal casing. Compare these module identifiers:
* C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\Sites\appblog\node_modules\webpack\buildin\module.js
  Used by 1 module(s), i. e.
    C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\Sites\appblog\node_modules\node-libs-browser\node_modules\punycode\punycode.js
* C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\sites\appblog\node_modules\webpack\buildin\module.js
  Used by 3 module(s), i. e.
    C:\sites\appblog\node_modules\babel-loader\lib\index.js??ref--10-0!C:\sites\appblog\node_modules\turboinks\dist\turboinks.js
[webpack-cli] Compiled with warnings.
```

localhost:3000/bemvindo

Olá mundo!

Seja bem-vindo!

2.4 Diagrama de base de dados do projeto



2.5 Models e Migrations

Criando o model Article e a migration

rails generate model Article title:string status:integer

```
C:\Sites\appblog (master)
λ rails generate model Article title:string status:integer
  invoke  active_record
  create  db/migrate/20200906013328_create_articles.rb
  create  app/models/article.rb
  invoke  test_unit
  create  test/models/article_test.rb
  create  test/fixtures/articles.yml
```

app\models\article.rb

```
class Article < ApplicationRecord
end
```

db\migrate\20200906013328_create_articles.rb

```
class CreateArticles < ActiveRecord::Migration[6.0]
  def change
    create_table :articles do |t|
      t.string :title
      t.integer :status

      t.timestamps
    end
  end
end
```

Executando a migration para criar a tabela

rake db:migrate

```
C:\Sites\appblog (master)
λ rake db:migrate
== 20200906013328 CreateArticles: migrating =====
-- create_table(:articles)
   -> 0.2405s
== 20200906013328 CreateArticles: migrated (0.2432s) =====
```

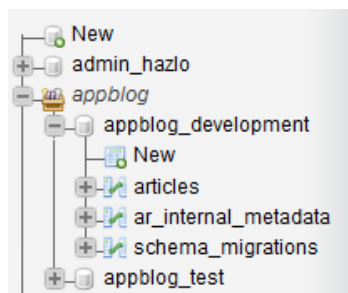
db/schema.rb

```
# This file is auto-generated from the current state of the database. Instead
# of editing this file, please use the migrations feature of Active Record to
# incrementally modify your database, and then regenerate this schema definition.
#
# This file is the source Rails uses to define your schema when running `rails
# db:schema:load`. When creating a new database, `rails db:schema:load` tends to
# be faster and is potentially less error prone than running all of your
# migrations from scratch. Old migrations may fail to apply correctly if those
# migrations use external dependencies or application code.
#
# It's strongly recommended that you check this file into your version control system.
```

```
ActiveRecord::Schema.define(version: 2020_09_06_013328) do
```

```
  create_table "articles", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4", force: :cascade do |t|
    t.string "title"
    t.integer "status"
    t.datetime "created_at", precision: 6, null: false
    t.datetime "updated_at", precision: 6, null: false
  end
```

```
end
```



Server: localhost:3306 > Database: appblog_development > Table: articles

Table structure | Relation view

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|--------------------------|--------------|--------------|--------------------|------------|------|---------|----------|----------------|--|
| <input type="checkbox"/> | 1 id | bigint(20) | | | No | None | | AUTO_INCREMENT | Change Drop More |
| <input type="checkbox"/> | 2 title | varchar(255) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| <input type="checkbox"/> | 3 status | int(11) | | | Yes | NULL | | | Change Drop More |
| <input type="checkbox"/> | 4 created_at | datetime(6) | | | No | None | | | Change Drop More |
| <input type="checkbox"/> | 5 updated_at | datetime(6) | | | No | None | | | Change Drop More |

↑ ☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Fulltext](#)

2.6 Criar artigos

Criando o controller Articles

rails generate controller Articles

```
C:\Sites\appblog (master)
λ rails generate controller Articles
   create  app/controllers/articles_controller.rb
   invoke  erb
   create  app/views/articles
   invoke  test_unit
   create  test/controllers/articles_controller_test.rb
   invoke  helper
   create  app/helpers/articles_helper.rb
   invoke  test_unit
   invoke  assets
   invoke  scss
   create  app/assets/stylesheets/articles.scss
```

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
  def new
    @article = Article.new
    @article.title = "Demo"
  end
  def create
    @article = Article.create(title: params[:article][:title])
    render json: @article
  end
end
```

config\routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  get "articles/new", to: "articles#new"
  post "articles", to: "articles#create"
end
```

app\views\articles\new.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div>
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div>
    <%= form.submit %>
  </div>
<% end %>
```

←

→

↺

🏠

localhost:3000/articles/new

Title

Create Article

←

→

↺

🏠

localhost:3000/articles

JSON

Raw Data

Headers

Save

Copy

Collapse All

Expand All

🔍 Filter JSON

id:

1

title:

"Demo"

status:

null

created_at:

"2020-09-06T02:33:32.281Z"

updated_at:

"2020-09-06T02:33:32.281Z"

←

→

↺

🏠

localhost:3000/articles

JSON

Raw Data

Headers

Save

Copy

Pretty Print

```
{"id":1,"title":"Demo","status":null,"created_at":"2020-09-06T02:33:32.281Z","updated_at":"2020-09-06T02:33:32.281Z"}
```

2.7 Texto enriquecido com ActionText

ActionText só está disponível a partir da versão 6 do Rails

Instalando o ActionText

rails action_text:install

```
C:\Sites\appblog (master)
λ rails action_text:install
Copying actiontext.scss to app/assets/stylesheets
  create  app/assets/stylesheets/actiontext.scss
Copying fixtures to test/fixtures/action_text/rich_texts.yml
  create  test/fixtures/action_text/rich_texts.yml
Copying blob rendering partial to app/views/active_storage/blobs/_blob.html.erb
  create  app/views/active_storage/blobs/_blob.html.erb
Installing JavaScript dependencies
  run    yarn add trix@^1.2.0 @rails/actiontext@^6.0.3-2 from "."
yarn add v1.22.5
[1/4] Resolving packages...
[2/4] Fetching packages...
info fsevents@2.1.3: The platform "win32" is incompatible with this module.
info "fsevents@2.1.3" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@1.2.13: The platform "win32" is incompatible with this module.
info "fsevents@1.2.13" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies...
warning " > webpack-dev-server@3.11.0" has unmet peer dependency "webpack@^4.0.0 || ^5.0.0".
warning "webpack-dev-server > webpack-dev-middleware@3.7.2" has unmet peer dependency "webpack@^4.0.0".
[4/4] Building fresh packages...

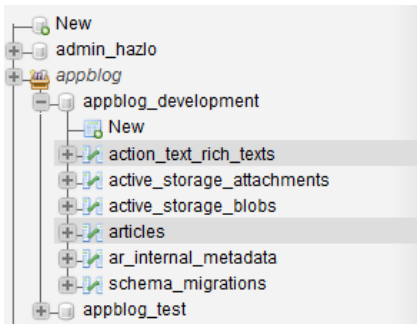
success Saved lockfile.
success Saved 2 new dependencies.
info Direct dependencies
├─ @rails/actiontext@6.0.3-2
└─ trix@1.2.0
info All dependencies
├─ @rails/actiontext@6.0.3-2
└─ trix@1.2.0
Done in 58.11s.
Adding trix to app/javascript/packs/application.js all
  append  app/javascript/packs/application.js
Adding @rails/actiontext to app/javascript/packs/application.js
  append  app/javascript/packs/application.js
Copied migration 20200906024946_create_active_storage_tables.active_storage.rb from active_storage
Copied migration 20200906024947_create_action_text_tables.action_text.rb from action_text
```

Executando as migrations

rake db:migrate

```
C:\Sites\appblog (master)
λ rake db:migrate
== 20200906024946 CreateActiveStorageTables: migrating =====
-- create_table(:active_storage_blobs, {})
   -> 0.4207s
-- create_table(:active_storage_attachments, {})
   -> 0.3917s
== 20200906024946 CreateActiveStorageTables: migrated (0.8183s) =====

== 20200906024947 CreateActionTextTables: migrating =====
-- create_table(:action_text_rich_texts)
   -> 0.3143s
== 20200906024947 CreateActionTextTables: migrated (0.3158s) =====
```

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
end
```

app\views\articles

```
<%= form_with(model: @article, local: true) do |form| %>
  <div>
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div>
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div>
    <%= form.submit %>
  </div>
<% end %>
```

localhost:3000/articles/new 90%

Title Demo

Content

Rich text editor toolbar: Bold, Italic, Underline, Link, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Attach file, Undo, Redo.

Create Article

localhost:3000/articles/new 90%

Title Texto enriquecido

Content

Rich text editor toolbar: Bold, Italic, Underline, Link, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Attach file, Undo, Redo.

Meu primeiro artigo.

Olá mundo! Este é o meu primeiro artigo.

Link para o meu perfil

Create Article

←

→

↺

🏠

localhost:3000/articles

JSON

Raw Data

Headers

Save Copy Collapse All Expand All Filter JSON

id:

2

title:

"Texto enriquecido"

status:

null

created_at:

"2020-09-06T03:22:21.328Z"

updated_at:

"2020-09-06T03:22:22.385Z"

←

→

↺

🏠

localhost:3000/articles

JSON

Raw Data

Headers

Save Copy Pretty Print

```
{ "id": 2, "title": "Texto enriquecido", "status": null, "created_at": "2020-09-06T03:22:21.328Z", "updated_at": "2020-09-06T03:22:22.385Z" }
```

2.8 Mostrar artigos

Usando o console do rails

rails console

Article.find(2)

```
C:\Sites\appblog (master)
> rails console
Loading development environment (Rails 6.0.3.2)
irb(main):001:0> Article.find(2)
(65.0ms) SET NAMES utf8mb4, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_VALUE_ON_ZERO'),
@@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
Article Load (0.7ms) SELECT `articles`.* FROM `articles` WHERE `articles`.`id` = 2 LIMIT 1
=> #<Article id: 2, title: "Texto enriquecido", status: nil, created_at: "2020-09-06 03:22:21", updated_at: "2020-09-06 03:22:22">
```

article = Article.find(2)

article.title

```
irb(main):002:0> article = Article.find(2)
Article Load (1.0ms) SELECT `articles`.* FROM `articles` WHERE `articles`.`id` = 2 LIMIT 1
=> #<Article id: 2, title: "Texto enriquecido", status: nil, created_at: "2020-09-06 03:22:21", updated_at: "2020-09-06 03:22:22">
irb(main):003:0> article.title
=> "Texto enriquecido"
```

Controller

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
  def show
    @article = Article.find(params[:id])
  end
  def new
    @article = Article.new
    @article.title = "Demo"
  end
  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end
end
```

Rotas

config\routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  get "articles/new", to: "articles#new"
  get "articles/:id", to: "articles#show"
  post "articles", to: "articles#create"
end
```

app\views\articles\show.html.erb

```
<h1><%= @article.title %></h1>
<div>
  <%= @article.content %>
</div>
```



Demo



Texto enriquecido

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

2.9 Editar artigos

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
  def new
    @article = Article.new
  end
  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end
  def show
    @article = Article.find(params[:id])
  end
  def edit
    @article = Article.find(params[:id])
  end
  def update
    @article = Article.find(params[:id])
    @article.update(title: params[:article][:title], content: params[:article][:content])
    redirect_to @article
  end
end
```

config\routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  get "articles/new", to: "articles#new"
  get "articles/:id", to: "articles#show"
  get "articles/:id/edit", to: "articles#edit"

  patch "/articles/:id", to: "articles#update", as: :article
  post "articles", to: "articles#create"
end
```

app\views\articles\edit.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div>
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div>
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div>
    <%= form.submit %>
  </div>
<% end %>
```

localhost:3000/articles/2/edit

Title

Texto enriquecido

Content

B

I

S

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

Update Article

localhost:3000/articles/2/edit

90%

Title

Texto enriquecido v2

Content

B

I

S

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

Update Article

localhost:3000/articles/2

Texto enriquecido v2

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

```
Started GET "/articles/2" for 127.0.0.1 at 2020-09-06 01:47:04 -0300
Processing by ArticlesController#show as HTML
Parameters: {"id"=>"2"}
Article Load (0.8ms) SELECT `articles`. * FROM `articles` WHERE `articles`.`id` = 2 LIMIT 1
  ↳ app/controllers/articles_controller.rb:10:in "show"
Rendering articles/show.html.erb within layouts/application
ActionText::RichText Load (7.1ms) SELECT `action_text_rich_texts`. * FROM `action_text_rich_texts` WHERE `action_text_rich_texts`.`record_id` = 2 AND `action_text_rich_texts`.`record_type` = "Article" AND `action_text_rich_texts`.`name` = "content" LIMIT 1
  ↳ app/views/articles/show.html.erb:3
Rendered C:/Ruby26-x64/lib/ruby/gems/2.6.0/gems/actiontext-6.0.3.2/app/views/action_text/content/_layout.html.erb (Duration: 9.4ms | Allocations: 401)
Rendered articles/show.html.erb within layouts/application (Duration: 175.9ms | Allocations: 1890)
Completed 200 OK in 371ms (Views: 307.9ms | ActiveRecord: 7.9ms | Allocations: 16626)
```

Showing rows 0 - 1 (2 total, Query took 0.0299 seconds.)

SELECT * FROM `articles`

☐ Profiling [\[Edit inline\]](#)

☐ Show all

Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

+ Options

id

title

status

created_at

updated_at

☐

Edit

Copy

Delete

1

Demo

NULL

2020-09-06 02:33:32.281687

2020-09-06 02:33:32.281687

☐

Edit

Copy

Delete

2

Texto enriquecido v2

NULL

2020-09-06 03:22:21.328455

2020-09-06 04:47:03.852745

☐ Check all

With selected:

Edit

Copy

Delete

Export

2.10 Eliminar artigos

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
  def index
    @articles = Article.all
  end
  def new
    @article = Article.new
  end
  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end
  def show
    @article = Article.find(params[:id])
  end
  def edit
    @article = Article.find(params[:id])
  end
  def update
    @article = Article.find(params[:id])
    @article.update(title: params[:article][:title], content: params[:article][:content])
    redirect_to @article
  end
  def destroy
    @article = Article.find(params[:id])
    @article.destroy
    redirect_to articles_path
  end
end
```

app\views\articles\show.html.erb

```
<h1><%= @article.title %></h1>
<div>
  <%= @article.content %>
</div>
<div>
  <%= link_to "Excluir o artigo", @article, method: :delete %>
</div>
```

app\views\articles\index.html.erb

```
<h1>Lista de artigos</h1>

<% @articles.each do |article| %>
  <div>
    <%= article.id %>
    <%= article.title %>
  </div>
<% end %>
```

config/routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"

  get "/articles", to: "articles#index"
  get "/articles/new", to: "articles#new"
  get "/articles/:id", to: "articles#show"
  get "/articles/:id/edit", to: "articles#edit"

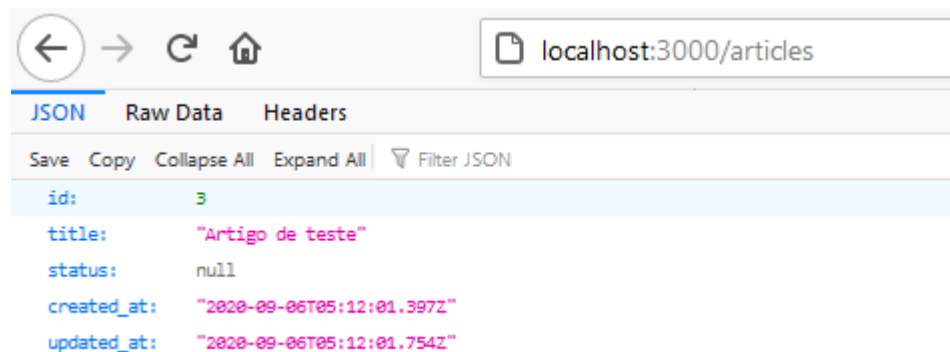
  patch "/articles/:id", to: "articles#update", as: :article
  post "/articles", to: "articles#create"
  delete "/articles/:id", to: "articles#destroy"
end
```

Criando um novo artigo

Vamos criar um artigo para depois eliminá-lo.



The screenshot shows a web browser at `localhost:3000/articles/new`. The form has a title field with the text "Artigo de teste" and a content field with the text "Este é apenas um artigo de teste". Below the content field is a "Create Article" button.



The screenshot shows a web browser at `localhost:3000/articles` displaying the JSON response for the newly created article. The response is shown in the "JSON" tab of a developer tool.

| id: | 3 |
|-------------|----------------------------|
| title: | "Artigo de teste" |
| status: | null |
| created_at: | "2020-09-06T05:12:01.397Z" |
| updated_at: | "2020-09-06T05:12:01.754Z" |

Excluindo o artigo

←

→

↺

🏠

🔒📄 localhost:3000/articles/3

Artigo de teste

Este é apenas um artigo de teste

[Excluir o artigo](#)

✔ Showing rows 0 - 2 (3 total, Query took 0.1705 seconds.)

SELECT * FROM `articles`

☐ Profiling [\[Edit in\]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

| | | id | title | status | created_at | updated_at | | |
|--------------------------|------|------|--------|--------|----------------------|------------|----------------------------|----------------------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | Demo | NULL | 2020-09-06 02:33:32.281687 | 2020-09-06 02:33:32.281687 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | Texto enriquecido v2 | NULL | 2020-09-06 03:22:21.328455 | 2020-09-06 04:47:03.852745 |
| <input type="checkbox"/> | Edit | Copy | Delete | 3 | Artigo de teste | NULL | 2020-09-06 05:12:01.397905 | 2020-09-06 05:12:01.754010 |

☐ Check all | With selected: Edit Copy Delete Export

←

→

↺

🏠

🔒📄 localhost:3000/articles

Lista de artigos

- 1 Demo
- 2 Texto enriquecido v2

✔ Showing rows 0 - 1 (2 total, Query took 0.0048 seconds.)

SELECT * FROM `articles`

☐ Profiling [\[Edit in\]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

| | | id | title | status | created_at | updated_at | | |
|--------------------------|------|------|--------|--------|----------------------|------------|----------------------------|----------------------------|
| <input type="checkbox"/> | Edit | Copy | Delete | 1 | Demo | NULL | 2020-09-06 02:33:32.281687 | 2020-09-06 02:33:32.281687 |
| <input type="checkbox"/> | Edit | Copy | Delete | 2 | Texto enriquecido v2 | NULL | 2020-09-06 03:22:21.328455 | 2020-09-06 04:47:03.852745 |

☐ Check all | With selected: Edit Copy Delete Export

2.11 Rota base

config/routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  root to: "home#index"

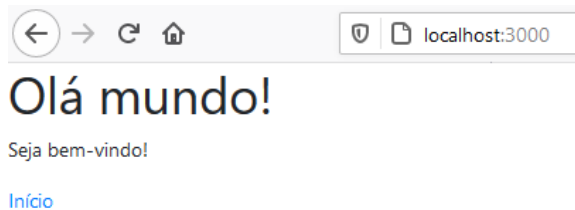
  get "/articles", to: "articles#index"
  get "/articles/new", to: "articles#new"
  get "/articles/:id", to: "articles#show"
  get "/articles/:id/edit", to: "articles#edit"

  patch "/articles/:id", to: "articles#update", as: :article
  post "/articles", to: "articles#create"
  delete "/articles/:id", to: "articles#destroy"
end
```

app/views/home/index.html.erb

```
<h1>Olá mundo!</h1>
<p>Seja bem-vindo!</p>

<%= link_to "Início", root_path %>
```



AULA 03 - MODULARIZAR E RECICLAR O CÓDIGO

3.1 before_action e after_action

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
```

```
  before_action :find_article, except: [:index, :create, :new]
```

```
  def index
    @articles = Article.all
  end
```

```
  def new
    @article = Article.new
  end
```

```
  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end
```

```
  def show
  end
```

```
  def edit
  end
```

```
  def update
    @article.update(title: params[:article][:title], content: params[:article][:content])
    redirect_to @article
  end
```

```
  def destroy
    @article.destroy
    redirect_to articles_path
  end
```

```
  private
```

```
  def find_article
    @article = Article.find(params[:id])
  end
end
```

3.2 Partial

app\views\articles_form.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div>
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div>
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div>
    <%= form.submit %>
  </div>
<% end %>
```

app\views\articles\new.html.erb

```
<%= render "articles/form" %>
```

app\views\articles\edit.html.erb

```
<%= render "articles/form" %>
```

3.3 Render de coleções

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end

  def show
  end

  def edit
  end

  def update
    @article.update(title: params[:article][:title], content: params[:article][:content])
    redirect_to @article
  end

  def destroy
    @article.destroy
    redirect_to articles_path
  end

  private

  def find_article
    @article = Article.find(params[:id])
  end
end
```

config/routes.rb

```
Rails.application.routes.draw do
  get "/bemvindo", to: "home#index"
  root to: "home#index"

  get "/articles", to: "articles#index"
  get "/articles/new", to: "articles#new"
  get "/articles/:id", to: "articles#show"
  get "/articles/:id/edit", to: "articles#edit"

  patch "/articles/:id", to: "articles#update", as: :article
  post "/articles", to: "articles#create"
  delete "/articles/:id", to: "articles#destroy"
end
```

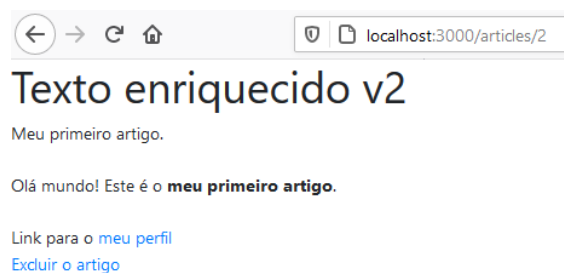
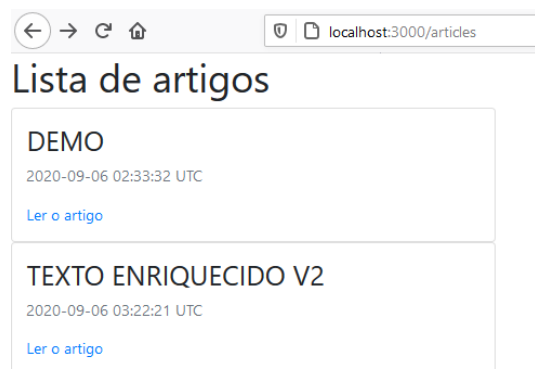
app/views/articles/index.html.erb

```
<h1>Lista de artigos</h1>
```

```
<%= render @articles %>
```

app/views/articles/_article.html.erb

```
<div class="card" style="padding:15px;max-width: 500px;">
  <h3 class="text-uppercase"><%= article.title %></h3>
  <p class="text-secondary"><%= article.created_at %></p>
  <%= link_to "Ler o artigo", article %>
</div>
```



3.4 Layouts

app\views\layouts\application.html.erb

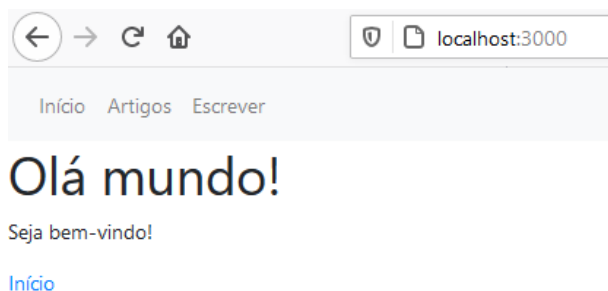
```
<!DOCTYPE html>
<html>
  <head>
    <title>Appblog</title>
    <%= csrf_meta_tags %>
    <%= csp_meta_tag %>

    <%= stylesheet_link_tag 'application', media: 'all', 'data-turbolinks-track': 'reload' %>
    <%= javascript_pack_tag 'application', 'data-turbolinks-track': 'reload' %>
  </head>

  <body>
    <%= render "partials/nav" %>
    <%= yield %>
  </body>
</html>
```

app\views\partials_nav.html.erb

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item">
        <%= link_to "Início", root_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Artigos", articles_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Escrever", articles_new_path, class:"nav-link" %>
      </li>
    </ul>
  </div>
</nav>
```



Lista de artigos

DEMO

2020-09-06 02:33:32 UTC

[Ler o artigo](#)

TEXTO ENRIQUECIDO V2

2020-09-06 03:22:21 UTC

[Ler o artigo](#)



localhost:3000/articles/new

90%







Title

Content









Create Article

3.4 Webpack e SASS

app\javascript\css\styles.scss

```
@import '~bootstrap/scss/bootstrap';
```

```
.small-container{
  width: 100%;
  max-width: 850px;
}

.large-container{
  width: 100%;
  max-width: 960px;
}

.center-block{
  margin: 0 auto;
}

.padding{
  padding: 10px 15px;
}

.margin-top{
  margin-top: 1.5em;
}

.field{
  @extend .margin-top;
  label{
    @extend .text-uppercase;
    @extend .text-secondary;
  }
  &:first-of-type{
    margin-top:0;
  }
  input{
    @extend .form-control;
    @extend .bg-light;
  }
  input[type='checkbox']{
    display: inline-block;
    width:auto;
    vertical-align: middle;
    margin-right: 0.5em;
  }
}
```

app\views\articles\edit.html.erb

```
<div class="small-container center-block">
  <%= render "articles/form" %>
</div>
```

app\views\articles\new.html.erb

```
<div class="small-container center-block">
  <%= render "articles/form" %>
</div>
```

app\views\articles_form.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div class="field">
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div class="field">
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div class="margin-top">
    <%= form.submit %>
  </div>
<% end %>
```

app\views\articles\index.html.erb

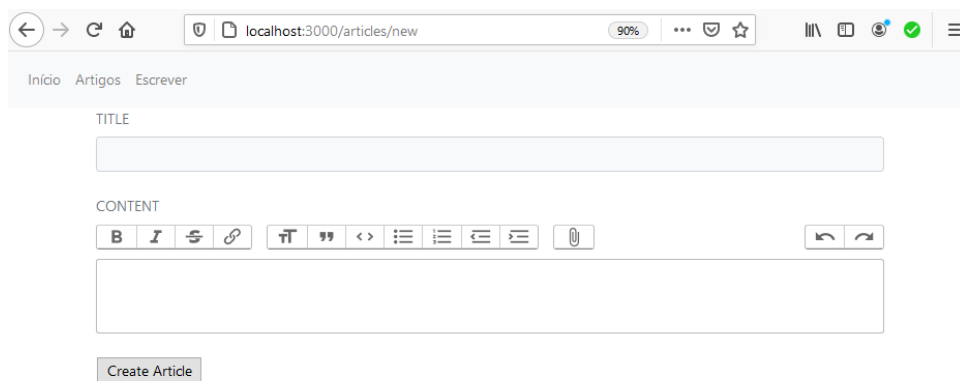
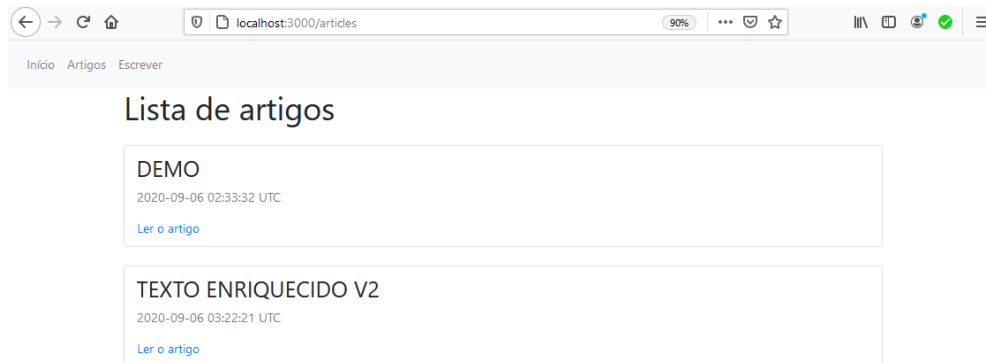
```
<div class="large-container center-block">
  <h1>Lista de artigos</h1>
  <%= render @articles %>
</div>
```

app\views\partials_nav.html.erb

```
<nav class="navbar navbar-expand-lg navbar-light bg-light padding">
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item">
        <%= link_to "Início", root_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Artigos", articles_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Escrever", articles_new_path, class:"nav-link" %>
      </li>
    </ul>
  </div>
</nav>
```

app\views\articles_article.html.erb

```
<div class="card padding margin-top" >
  <h3 class="text-uppercase"><%= article.title %></h3>
  <p class="text-secondary"><%= article.created_at %></p>
  <%= link_to "Ler o artigo", article %>
</div>
```



TITLE

Texto enriquecido v2

CONTENT

B

I

S

TT

<>

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

Update Article

AULA 04 - AUTENTICAÇÃO DE USUÁRIOS

4.1 Instalar devise

Baixando devise

Gemfile

```
source 'https://rubygems.org'
git_source(:github) { |repo| "https://github.com/#{repo}.git" }

ruby '2.6.3'

# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 6.0.0.rc1'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5'
# Transpile app-like JavaScript. Read more: https://github.com/rails/webpacker
gem 'webpacker', '~> 4.0'
# Turbolinks makes navigating your web application faster. Read more:
https://github.com/turbolinks/turbolinks
gem 'turbolinks', '~> 5'
# Build JSON APIs with ease. Read more: https://github.com/rails/jbuilder
gem 'jbuilder', '~> 2.5'
# Use Redis adapter to run Action Cable in production
# gem 'redis', '~> 4.0'
# Use Active Model has_secure_password
# gem 'bcrypt', '~> 3.1.7'

# Use Active Storage variant
# gem 'image_processing', '~> 1.2'

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.4.2', require: false

gem 'devise'

group :development, :test do
  # Call 'byebug' anywhere in the code to stop execution and get a debugger console
  gem 'byebug', platforms: [:mri, :mingw, :x64_mingw]
end

group :development do
  # Access an interactive console on exception pages or by calling 'console' anywhere in the code.
  gem 'web-console', '>= 3.3.0'
end
```

```
group :test do
  # Adds support for Capybara system testing and selenium driver
  gem 'capybara', '>= 2.15'
  gem 'selenium-webdriver'
  # Easy installation and use of web drivers to run system tests with browsers
  gem 'webdrivers'
end
```

Windows does not include zoneinfo files, so bundle the tzinfo-data gem
gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]

No terminal, execute o comando:

bundle install

```
C:\Sites\apppblog (master)
λ bundle install
Fetching gem metadata from https://rubygems.org/.....
Fetching gem metadata from https://rubygems.org/.
Resolving dependencies....
Using rake 13.0.1
Using concurrent-ruby 1.1.7
Using i18n 1.8.5
Using minitest 5.14.2
Using thread_safe 0.3.6
Using tzinfo 1.2.7
Using zeitwerk 2.4.0
Using activesupport 6.0.3.2
Using builder 3.2.4
Using erubi 1.9.0
Using mini_portile2 2.4.0
Using nokogiri 1.10.10 (x64-mingw32)
Using rails-dom-testing 2.0.3
Using crass 1.0.6
Using loofah 2.7.0
Using rails-html-sanitizer 1.3.0
Using actionview 6.0.3.2
Using rack 2.2.3
Using rack-test 1.1.0
Using actionpack 6.0.3.2
```

•
•
•

```
Fetching orm_adapter 0.5.0
Installing orm_adapter 0.5.0
Using method_source 1.0.0
Using thor 1.0.1
Using railties 6.0.3.2
Fetching responders 3.0.1
Installing responders 3.0.1
Fetching warden 1.2.9
Installing warden 1.2.9
Fetching devise 4.7.2
Installing devise 4.7.2
Using ffi 1.13.1 (x64-mingw32)
Using jbuilder 2.10.0
Using mysql2 0.5.3 (x64-mingw32)
Using puma 3.12.6
Using rack-proxy 0.6.5
Using sprockets 3.7.2
Using sprockets-rails 3.2.1
Using rails 6.0.3.2
Using rb-fsevent 0.10.4
Using rb-inotify 0.10.1
Using rubyzip 2.3.0
Using sass-listen 4.0.0
Using sass 3.7.4
Using tilt 2.0.10
Using sass-rails 5.1.0
Using selenium-webdriver 3.142.7
Using turbolinks-source 5.2.0
Using turbolinks 5.2.1
Using tzinfo-data 1.2020.1
Using web-console 4.0.4
Using webdrivers 4.4.1
Using webpacker 4.3.0
Bundle complete! 15 Gemfile dependencies, 77 gems now installed.
Use `bundle info [gemname]` to see where a bundled gem is installed.
```

Instalando e configurando devise

rails generate devise:install

```
C:\Sites\appblog (master)
λ rails generate devise:install
   create  config/initializers/devise.rb
   create  config/locales/devise.en.yml
=====

Depending on your application's configuration some manual setup may be required:

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', port: 3000 }

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

   * Required for all applications. *

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

       root to: "home#index"

   * Not required for API-only Applications *

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>

   * Not required for API-only Applications *

4. You can copy Devise views (for customization) to your app by running:

       rails g devise:views

   * Not required *

=====
```

app\views\layouts\application.html.erb

```
<!DOCTYPE html>
<html>
  <head>
    <title>Appblog</title>
    <%= csrf_meta_tags %>
    <%= csp_meta_tag %>

    <%= stylesheet_link_tag 'application', media: 'all', 'data-turbolinks-track': 'reload' %>
    <%= javascript_pack_tag 'application', 'data-turbolinks-track': 'reload' %>
  </head>

  <body>
    <% if notice %>
      <p class="alert alert-primary"><%= notice %></p>
    <% end %>
    <% if alert %>
      <p class="alert alert-danger"><%= alert %></p>
    <% end %>
    <%= render "partials/nav" %>
    <%= yield %>
  </body>
</html>
```

4.2 Tabela de usuários para o registro e login

Criando model User e a migration

rails generate devise User

```
C:\Sites\appblog (master)
> rails generate devise User
Deprecation warning: Expected boolean default value for '--orm'; got :active_record (string).
This will be rejected in the future unless you explicitly pass the options `check_default_type: false` or call `all
ow_incompatible_default_type!` in your code
You can silence deprecations warning by setting the environment variable THOR_SILENCE_DEPRECATION.
  invoke  active_record
  create  db/migrate/20200906151750_devise_create_users.rb
  create  app/models/user.rb
  invoke  test_unit
  create  test/models/user_test.rb
  create  test/fixtures/users.yml
  insert  app/models/user.rb
  route   devise_for :users
```

app\models\user.rb

```
class User < ApplicationRecord
  # Include default devise modules. Others available are:
  # :confirmable, :lockable, :timeoutable, :trackable and :omniauthable
  devise :database_authenticatable, :registerable,
         :recoverable, :rememberable, :validatable
end
```

db\migrate\20200906151750_devise_create_users.rb

```
# frozen_string_literal: true

class DeviseCreateUsers < ActiveRecord::Migration[6.0]
  def change
    create_table :users do |t|
      ## Database authenticatable
      t.string :email, null: false, default: ""
      t.string :encrypted_password, null: false, default: ""

      ## Recoverable
      t.string :reset_password_token
      t.datetime :reset_password_sent_at

      ## Rememberable
      t.datetime :remember_created_at

      ## Trackable
      # t.integer :sign_in_count, default: 0, null: false
      # t.datetime :current_sign_in_at
      # t.datetime :last_sign_in_at
      # t.string :current_sign_in_ip
      # t.string :last_sign_in_ip
    end
  end
end
```



```

## Confirmable
# t.string :confirmation_token
# t.datetime :confirmed_at
# t.datetime :confirmation_sent_at
# t.string :unconfirmed_email # Only if using reconfirmable

## Lockable
# t.integer :failed_attempts, default: 0, null: false # Only if lock strategy is :failed_attempts
# t.string :unlock_token # Only if unlock strategy is :email or :both
# t.datetime :locked_at

t.timestamps null: false
end

add_index :users, :email, unique: true
add_index :users, :reset_password_token, unique: true
# add_index :users, :confirmation_token, unique: true
# add_index :users, :unlock_token, unique: true
end
end

```

config/routes.rb

```

Rails.application.routes.draw do
  devise_for :users
  get "/bemvindo", to: "home#index"
  root to: "home#index"

  get "/articles", to: "articles#index"
  get "/articles/new", to: "articles#new"
  get "/articles/:id", to: "articles#show"
  get "/articles/:id/edit", to: "articles#edit"

  patch "/articles/:id", to: "articles#update", as: :article
  post "/articles", to: "articles#create"
  delete "/articles/:id", to: "articles#destroy"
end

```

Executando a migration para criar a tabela Users

rake db:migrate

```

C:\Sites\appblog (master)
λ rake db:migrate
== 20200906151750 DeviseCreateUsers: migrating =====
-- create_table(:users)
--> 1.1530s
-- add_index(:users, :email, {:unique=>true})
--> 0.6425s
-- add_index(:users, :reset_password_token, {:unique=>true})
--> 0.2144s
== 20200906151750 DeviseCreateUsers: migrated (2.0147s) =====

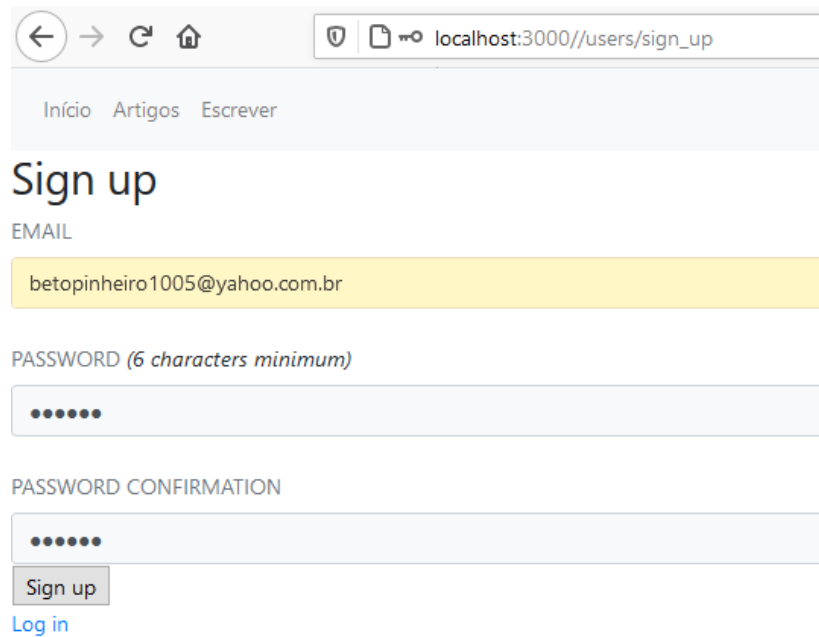
```

Registrando um usuário

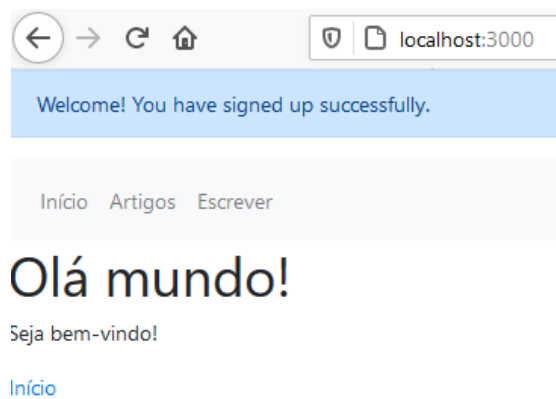
- No browser, entre com a URL:

http://localhost:3000//users/sign_up

password: 123456



A screenshot of a web browser showing a sign-up form. The address bar displays 'localhost:3000//users/sign_up'. The page has a navigation bar with 'Início', 'Artigos', and 'Escrever'. The main heading is 'Sign up'. Below it, there are two input fields: 'EMAIL' with the value 'betopinheiro1005@yahoo.com.br' and 'PASSWORD (6 characters minimum)' with masked characters. A 'PASSWORD CONFIRMATION' field is also present with masked characters. A 'Sign up' button is at the bottom, followed by a 'Log in' link.



A screenshot of the browser showing a success message: 'Welcome! You have signed up successfully.' Below this is a navigation bar with 'Início', 'Artigos', and 'Escrever'. The main heading is 'Olá mundo!'. Below it, the text 'Seja bem-vindo!' is displayed, followed by a link to 'Início'.



A screenshot of a database query result in a tool like DBeaver. The query is 'SELECT * FROM `users`'. The result shows one row of data for a user. The columns are: id, email, encrypted_password, reset_password_token, reset_password_sent_at, remember_created_at, and created_at.

| | id | email | encrypted_password | reset_password_token | reset_password_sent_at | remember_created_at | created_at |
|---|----|-------------------------------|---|----------------------|------------------------|---------------------|--------------------|
| 1 | | betopinheiro1005@yahoo.com.br | \$2a\$12\$P10EG1PeP3GLIth9q0BWOWV2krSnH4BD7owg.5mqYg... | NULL | NULL | NULL | 2020-09-06 16:00:4 |

4.3 Trabalhar com a sessão atual

Listando as rotas

rails routes

```
hermes@DESKTOP-4B0R6L1 MINGW64 /c:/sites/appblog (master)
$ rails routes

   Prefix Verb   URI Pattern
new_user_session GET    /users/sign_in(.:format)
user_session POST   /users/sign_in(.:format)
destroy_user_session DELETE /users/sign_out(.:format)
new_user_password GET    /users/password/new(.:format)
edit_user_password GET    /users/password/edit(.:format)
user_password PATCH  /users/password(.:format)
PUT     /users/password(.:format)
POST    /users/password(.:format)
cancel_user_registration GET    /users/cancel(.:format)
new_user_registration GET    /users/sign_up(.:format)
edit_user_registration GET    /users/edit(.:format)
user_registration PATCH  /users(.:format)
PUT     /users(.:format)
DELETE  /users(.:format)
POST    /users(.:format)
benvindo GET    /benvindo(.:format)
root GET    /
articles GET    /articles(.:format)
articles_new GET    /articles/new(.:format)
GET     /articles/:id(.:format)
GET     /articles/:id/edit(.:format)
article PATCH  /articles/:id(.:format)
POST    /articles/:id(.:format)
DELETE  /articles/:id(.:format)
rails_postmark_inbound_emails POST   /rails/action_mailbox/postmark/inbound_emails(.:format)
rails_relay_inbound_emails POST   /rails/action_mailbox/relay/inbound_emails(.:format)
rails_sendgrid_inbound_emails POST   /rails/action_mailbox/sendgrid/inbound_emails(.:format)
rails_mandrill_inbound_health_check GET    /rails/action_mailbox/mandrill/inbound_emails(.:format)
rails_mandrill_inbound_emails POST   /rails/action_mailbox/mandrill/inbound_emails(.:format)
rails_mailgun_inbound_emails POST   /rails/action_mailbox/mailgun/inbound_emails(.:format)
rails_conductor_inbound_emails GET    /rails/conductor/action_mailbox/inbound_emails(.:format)
POST    /rails/conductor/action_mailbox/inbound_emails(.:format)
new_rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/new(.:format)
edit_rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/:id/edit(.:format)
rails_conductor_inbound_email GET    /rails/conductor/action_mailbox/inbound_emails/:id(.:format)
PATCH  /rails/conductor/action_mailbox/inbound_emails/:id(.:format)
PUT     /rails/conductor/action_mailbox/inbound_emails/:id(.:format)
DELETE  /rails/conductor/action_mailbox/inbound_emails/:id(.:format)
rails_conductor_inbound_email_reroute POST   /rails/conductor/action_mailbox/inbound_email_id/reroute(.:format)
rails_service_blob GET    /rails/active_storage/blobs/:signed_id/*filename(.:format)
rails_blob_representation GET    /rails/active_storage/representations/:signed_blob_id/variation_key/*filename(.:format)
rails_disk_service GET    /rails/active_storage/disk/:encoded_key/*filename(.:format)
update_rails_disk_service PUT     /rails/active_storage/disk/:encoded_token(.:format)
rails_direct_uploads POST   /rails/active_storage/direct_uploads(.:format)

Controller#Action
devise/sessions#new
devise/sessions#create
devise/sessions#destroy
devise/passwords#new
devise/passwords#edit
devise/passwords#update
devise/passwords#destroy
devise/registrations#cancel
devise/registrations#new
devise/registrations#edit
devise/registrations#update
devise/registrations#destroy
devise/registrations#create
home#index
articles#index
articles#new
articles#show
articles#edit
articles#update
articles#create
articles#destroy
action_mailbox/ingresses/postmark/inbound_emails#create
action_mailbox/ingresses/relay/inbound_emails#create
action_mailbox/ingresses/sendgrid/inbound_emails#create
action_mailbox/ingresses/mandrill/inbound_emails#health_check
action_mailbox/ingresses/mandrill/inbound_emails#create
action_mailbox/ingresses/mailgun/inbound_emails#create
rails/conductor/action_mailbox/inbound_emails#index
rails/conductor/action_mailbox/inbound_emails#create
rails/conductor/action_mailbox/inbound_emails#new
rails/conductor/action_mailbox/inbound_emails#edit
rails/conductor/action_mailbox/inbound_emails#show
rails/conductor/action_mailbox/inbound_emails#update
rails/conductor/action_mailbox/inbound_emails#destroy
rails/conductor/action_mailbox/reroutes#create
active_storage/blobs#show
active_storage/representations#show
active_storage/disk#show
active_storage/disk#update
active_storage/direct_uploads#create
```

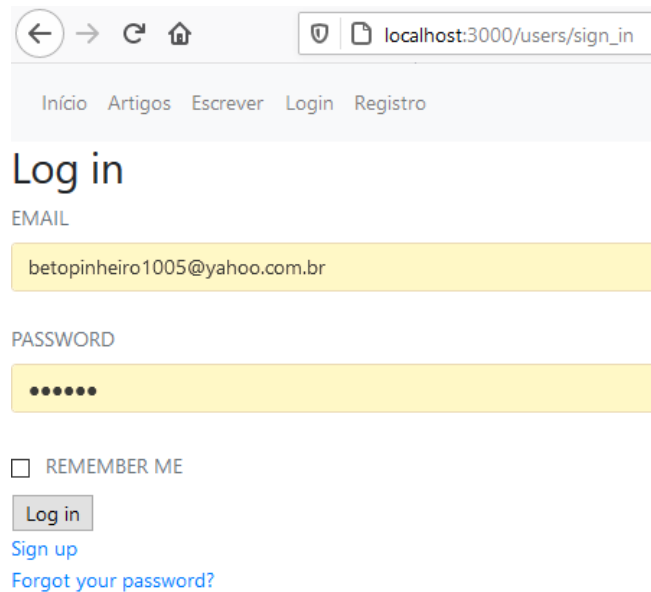
app\views\partials_nav.html.erb

```
<nav class="navbar navbar-expand-lg navbar-light bg-light padding">
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item">
        <%= link_to "Início", root_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Artigos", articles_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Escrever", articles_new_path, class:"nav-link" %>
      </li>
      <% if user_signed_in? %>
        <li class="nav-item">
          <%= link_to "Sair", destroy_user_session_path, method: :delete, class:"nav-link" %>
        </li>
      <% else %>
        <li class="nav-item">
          <%= link_to "Login", new_user_session_path, class:"nav-link" %>
        </li>
        <li class="nav-item">
          <%= link_to "Registro", new_user_registration_path, class:"nav-link" %>
        </li>
      <% end %>
    </ul>
  </div>
</nav>
```

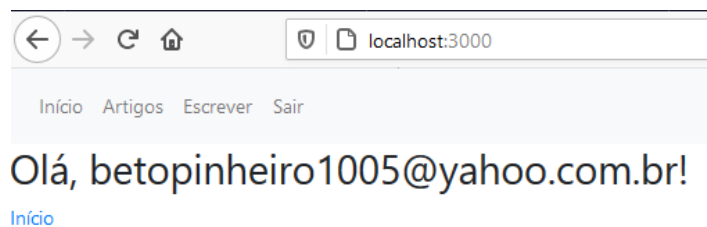
app\views\home\index.html.erb

```
<% if user_signed_in? %>
  <h2>Olá, <%= current_user.email %>!</h2>
  <%= link_to "Início", root_path %>
<% end %>
```

Iniciando sessão

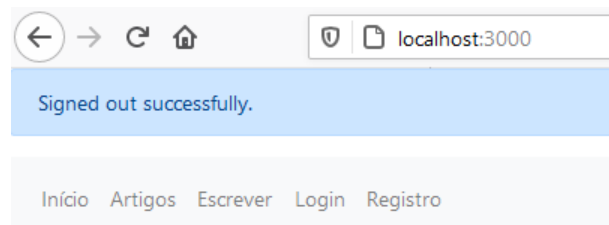


A screenshot of a web browser showing the login page. The address bar displays 'localhost:3000/users/sign_in'. A navigation bar at the top contains links: 'Início', 'Artigos', 'Escrever', 'Login', and 'Registro'. The main heading is 'Log in'. Below it, there are two input fields: 'EMAIL' with the value 'betopinheiro1005@yahoo.com.br' and 'PASSWORD' with masked characters '.....'. A checkbox labeled 'REMEMBER ME' is present. A 'Log in' button is below the password field. At the bottom, there are links for 'Sign up' and 'Forgot your password?'.



A screenshot of a web browser showing the home page after a successful login. The address bar displays 'localhost:3000'. The navigation bar now includes 'Sair' instead of 'Login'. The main heading is 'Olá, betopinheiro1005@yahoo.com.br!'. Below the heading is a link for 'Início'.

Encerrando sessão



A screenshot of a web browser showing the home page after a successful logout. The address bar displays 'localhost:3000'. A blue banner at the top of the content area says 'Signed out successfully.'. The navigation bar contains links: 'Início', 'Artigos', 'Escrever', 'Login', and 'Registro'.

4.4 Proteger rotas com login

app\controllers\home_controller.rb

```
class HomeController < ApplicationController
  before_action :authenticate_user!
  def index
  end
end
```

- Com isso, se o usuário não estiver logado, ao tentar ir para a página inicial (localhost:3000), será redirecionado para a tela de login.

← → ↻ 🏠 🔒 📄 localhost:3000/users/sign_in 90% ... 📄 🌐 🟢 ☰

You need to sign in or sign up before continuing.

[Início](#) [Artigos](#) [Escrever](#) [Login](#) [Registro](#)

Log in

EMAIL

betopinheiro1005@yahoo.com.br

PASSWORD

.....

☐ REMEMBER ME

[Log in](#)

[Sign up](#)

[Forgot your password?](#)

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = Article.create(title: params[:article][:title], content: params[:article][:content])
    render json: @article
  end

  def show
  end
```

```

def edit
end

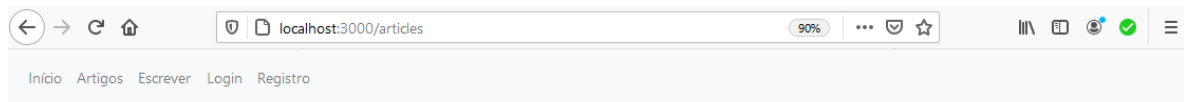
def update
  @article.update(title: params[:article][:title], content: params[:article][:content])
  redirect_to @article
end

def destroy
  @article.destroy
  redirect_to articles_path
end

private

def find_article
  @article = Article.find(params[:id])
end
end

```



Lista de artigos

DEMO

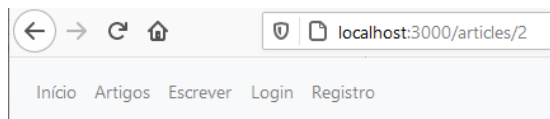
2020-09-06 02:33:32 UTC

[Ler o artigo](#)

TEXTO ENRIQUECIDO V2

2020-09-06 03:22:21 UTC

[Ler o artigo](#)



Texto enriquecido v2

Meu primeiro artigo.

Olá mundo! Este é o **meu primeiro artigo**.

Link para o [meu perfil](#)

[Excluir o artigo](#)

localhost:3000/articles/2/edit

Início

Artigos

Escrever

Login

Registro

Log in

EMAIL

PASSWORD

☐ REMEMBER ME

Log in

[Sign up](#)

[Forgot your password?](#)

localhost:3000/users/sign_in

90%

You need to sign in or sign up before continuing.

Início

Artigos

Escrever

Login

Registro

Log in

EMAIL

PASSWORD

☐ REMEMBER ME

Log in

[Sign up](#)

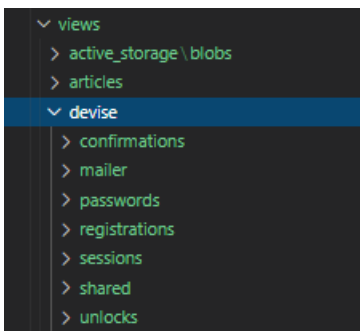
[Forgot your password?](#)

4.5 Modificar formulários de autenticação

Gerando as views de devise

rails generate devise:views

```
C:\Sites\appblog (master)
λ rails generate devise:views
  invoke  Devise::Generators::SharedViewsGenerator
  create  app/views/devise/shared
  create  app/views/devise/shared/_error_messages.html.erb
  create  app/views/devise/shared/_links.html.erb
  invoke  form_for
  create  app/views/devise/confirmations
  create  app/views/devise/confirmations/new.html.erb
  create  app/views/devise/passwords
  create  app/views/devise/passwords/edit.html.erb
  create  app/views/devise/passwords/new.html.erb
  create  app/views/devise/registrations
  create  app/views/devise/registrations/edit.html.erb
  create  app/views/devise/registrations/new.html.erb
  create  app/views/devise/sessions
  create  app/views/devise/sessions/new.html.erb
  create  app/views/devise/unlocks
  create  app/views/devise/unlocks/new.html.erb
  invoke  erb
  create  app/views/devise/mailer
  create  app/views/devise/mailer/confirmation_instructions.html.erb
  create  app/views/devise/mailer/email_changed.html.erb
  create  app/views/devise/mailer/password_change.html.erb
  create  app/views/devise/mailer/reset_password_instructions.html.erb
  create  app/views/devise/mailer/unlock_instructions.html.erb
```



Personalizando a tela de login

app\views\devise\sessions\new.html.erb

```
<div class="small-container center-block">
  <h2>Log in</h2>

  <%= form_for(resource, as: resource_name, url: session_path(resource_name)) do |f| %>
    <div class="field">
      <%= f.label :email, "Email" %><br />
      <%= f.email_field :email, autofocus: true, autocomplete: "email" %>
    </div>

    <div class="field">
      <%= f.label :password, "Senha" %><br />
      <%= f.password_field :password, autocomplete: "current-password" %>
    </div>
```



```

<% if devise_mapping.rememberable? %>
  <div class="field">
    <%= f.check_box :remember_me %>
    <%= f.label :remember_me, "Lembrar" %>
  </div>
<% end %>

<div class="actions">
  <%= f.submit "Entrar", class: "btn btn-primary" %>
</div>
<% end %>

<%= render "devise/shared/links" %>
</div>

```

Início Artigos Escrever Login Registro

Log in

EMAIL

betopinheiro1005@yahoo.com.br

SENHA

.....

☐ LEMBRAR

Entrar

[Criar conta](#)
[Esqueceu a senha?](#)

app\views\devise\shared_links.html.erb

```

<%- if controller_name != 'sessions' %>
  <%= link_to "Já tenho conta", new_session_path(resource_name) %><br />
<% end %>

<%- if devise_mapping.registerable? && controller_name != 'registrations' %>
  <%= link_to "Criar conta", new_registration_path(resource_name) %><br />
<% end %>

<%- if devise_mapping.recoverable? && controller_name != 'passwords' && controller_name != 'registrations' %>
  <%= link_to "Esqueceu a senha?", new_password_path(resource_name) %><br />
<% end %>

<%- if devise_mapping.confirmable? && controller_name != 'confirmations' %>
  <%= link_to "Didn't receive confirmation instructions?", new_confirmation_path(resource_name) %><br />
<% end %>

<%- if devise_mapping.lockable? && resource_class.unlock_strategy_enabled?(:email) && controller_name != 'unlocks' %>
  <%= link_to "Didn't receive unlock instructions?", new_unlock_path(resource_name) %><br />
<% end %>

```

```

<%- if devise_mapping.omniauthable? %>
  <%- resource_class.omniauth_providers.each do |provider| %>
    <%= link_to "Sign in with #{OmniAuth::Utils.camelize(provider)}",
omniauth_authorize_path(resource_name, provider) %><br />
  <% end %>
<% end %>

```

Personalizando a tela de registro

app\views\devise\registrations\new.html.erb

```

<div class="small-container center-block">
  <h2>Criar conta</h2>

  <%= form_for(resource, as: resource_name, url: registration_path(resource_name)) do |f| %>
    <%= render "devise/shared/error_messages", resource: resource %>

    <div class="field">
      <%= f.label :email %><br />
      <%= f.email_field :email, autofocus: true, autocomplete: "email" %>
    </div>

    <div class="field">
      <%= f.label :password, "Senha" %>
      <% if @minimum_password_length %>
      <em>(<%= @minimum_password_length %> caracteres, no mínimo)</em>
      <% end %><br />
      <%= f.password_field :password, autocomplete: "new-password" %>
    </div>

    <div class="field">
      <%= f.label :password_confirmation, "Confirmar senha" %><br />
      <%= f.password_field :password_confirmation, autocomplete: "new-password" %>
    </div>

    <div class="actions">
      <%= f.submit "Cadastrar", class: "btn btn-primary margin-top" %>
    </div>
  <% end %>

```

```
<div class="margin-top"></div>
  <%= render "devise/shared/links" %>
</div>
```

```
</div>
```

Início Artigos Escrever Login Registro

Criar conta

EMAIL

SENHA (6 caracteres, no mínimo)

CONFIRMAR SENHA

[Cadastrar](#)

[Já tenho conta](#)

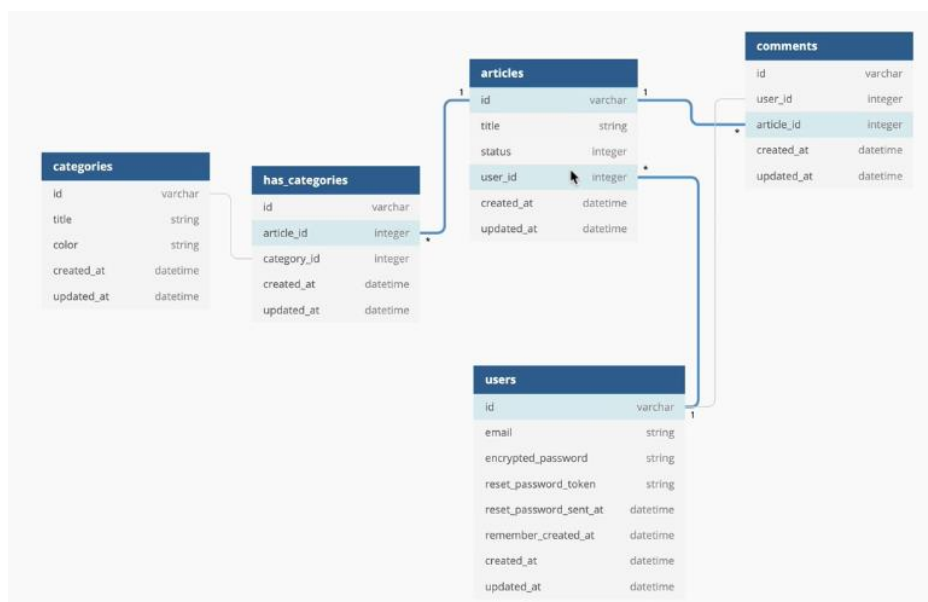
AULA 05 - RELAÇÃO UM A MUITOS

5.1 Tipos de relações



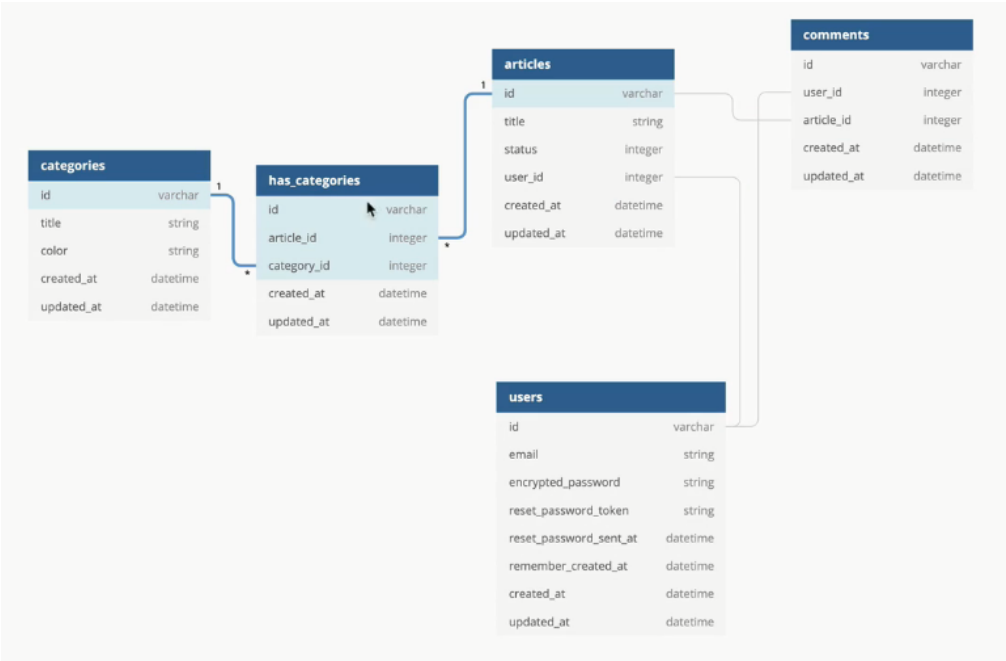
Relação um a muitos

- Um usuário pode ter muitos artigos
- Um artigo pode ter muitos comentários
- Um artigo pode pertencer a muitas categorias



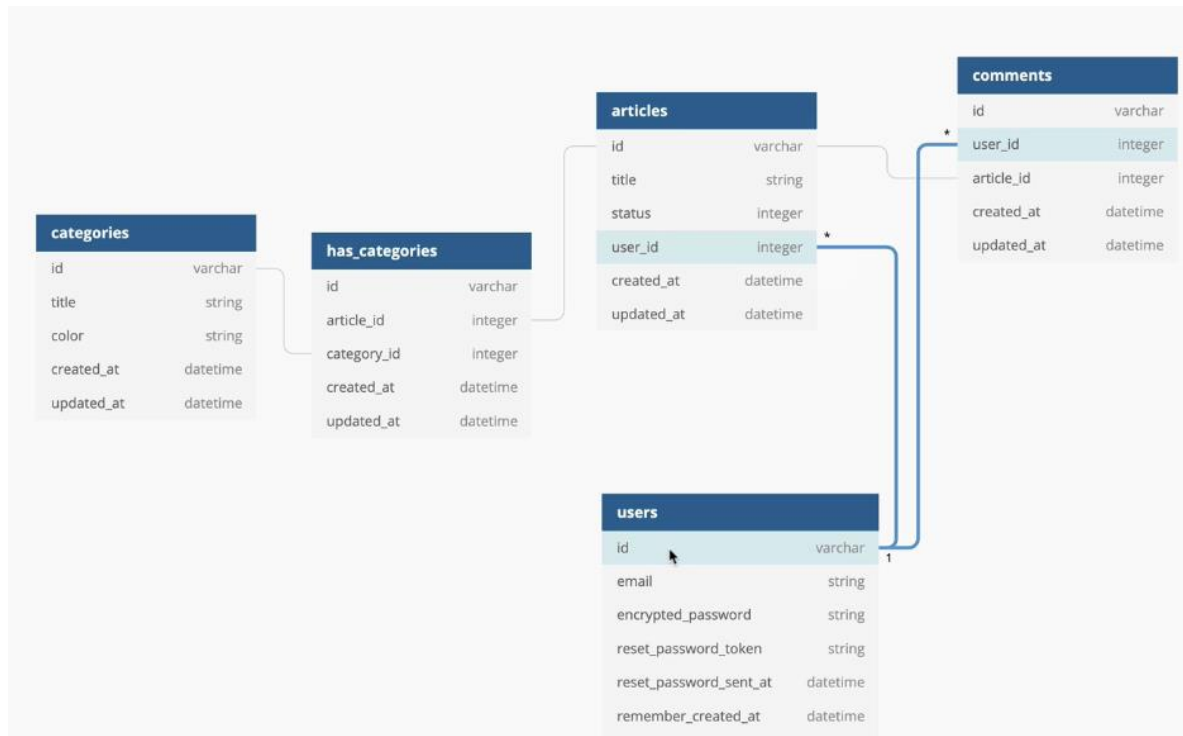
Relações muitos a muitos

- Exemplo: Relacionamento entre artigos e categorias (representados por has_categories)



5.2 Relação entre usuários e artigos

- Tanto a tabela articles como a tabela comments devem fazer referência ao usuário através do campo user_id.



Criando o campo user_id na tabela de artigos

- Todas as modificações na estrutura de uma determinada tabela devem ser realizadas através de migrations.

`rails generate migration add_user_id_to_articles user:references`

```
C:\Sites\appblog (master)
λ rails generate migration add_user_id_to_articles user:references
  invoke  active_record
  create  db/migrate/20200906194246_add_user_id_to_articles.rb
```

`db\migrate\20200906194246_add_user_id_to_articles.rb`

```
class AddUserIdToArticles < ActiveRecord::Migration[6.0]
  def change
    add_reference :articles, :user, null: false, foreign_key: true, default: 1
  end
end
```

Executando a migration

rake db:migrate

```
C:\Sites\appblog (master)
λ rake db:migrate
== 20200906194246 AddUserIdToArticles: migrating =====
-- add_reference(:articles, :user, {:null=>false, :foreign_key=>true, :default=>1})
   -> 3.0166s
== 20200906194246 AddUserIdToArticles: migrated (3.0191s) =====
```

db/schema.rb

```
# This file is auto-generated from the current state of the database. Instead
# of editing this file, please use the migrations feature of Active Record to
# incrementally modify your database, and then regenerate this schema definition.
#
# This file is the source Rails uses to define your schema when running `rails
# db:schema:load`. When creating a new database, `rails db:schema:load` tends to
# be faster and is potentially less error prone than running all of your
# migrations from scratch. Old migrations may fail to apply correctly if those
# migrations use external dependencies or application code.
#
# It's strongly recommended that you check this file into your version control system.
```

```
ActiveRecord::Schema.define(version: 2020_09_06_194246) do
```

```
  create_table "action_text_rich_texts", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4", force:
:cascade do |t|
    t.string "name", null: false
    t.text "body", size: :long
    t.string "record_type", null: false
    t.bigint "record_id", null: false
    t.datetime "created_at", precision: 6, null: false
    t.datetime "updated_at", precision: 6, null: false
    t.index ["record_type", "record_id", "name"], name: "index_action_text_rich_texts_uniqueness",
unique: true
  end
```

```
  create_table "active_storage_attachments", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4",
force: :cascade do |t|
    t.string "name", null: false
    t.string "record_type", null: false
    t.bigint "record_id", null: false
    t.bigint "blob_id", null: false
    t.datetime "created_at", null: false
    t.index ["blob_id"], name: "index_active_storage_attachments_on_blob_id"
    t.index ["record_type", "record_id", "name", "blob_id"], name:
"index_active_storage_attachments_uniqueness", unique: true
  end
```

```

create_table "active_storage_blobs", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4", force:
:cascade do |t|
  t.string "key", null: false
  t.string "filename", null: false
  t.string "content_type"
  t.text "metadata"
  t.bigint "byte_size", null: false
  t.string "checksum", null: false
  t.datetime "created_at", null: false
  t.index ["key"], name: "index_active_storage_blobs_on_key", unique: true
end

```

```

create_table "articles", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4", force: :cascade do |t|
  t.string "title"
  t.integer "status"
  t.datetime "created_at", precision: 6, null: false
  t.datetime "updated_at", precision: 6, null: false
  t.bigint "user_id", default: 1, null: false
  t.index ["user_id"], name: "index_articles_on_user_id"
end

```

```

create_table "users", options: "ENGINE=InnoDB DEFAULT CHARSET=utf8mb4", force: :cascade do |t|
  t.string "email", default: "", null: false
  t.string "encrypted_password", default: "", null: false
  t.string "reset_password_token"
  t.datetime "reset_password_sent_at"
  t.datetime "remember_created_at"
  t.datetime "created_at", precision: 6, null: false
  t.datetime "updated_at", precision: 6, null: false
  t.index ["email"], name: "index_users_on_email", unique: true
  t.index ["reset_password_token"], name: "index_users_on_reset_password_token", unique: true
end

```

```

add_foreign_key "active_storage_attachments", "active_storage_blobs", column: "blob_id"
add_foreign_key "articles", "users"
end

```

Showing rows 0 - 1 (2 total, Query took 0.0041 seconds.)

SELECT * FROM `articles`

☐ Profiling [\[Edit inlir](#)

☐ Show all | Number of rows: 25 | Filter rows: | Sort by key:

+ Options

| | | id | title | status | created_at | updated_at | user_id |
|--------------------------|--------------------|----|----------------------|--------|----------------------------|----------------------------|---------|
| <input type="checkbox"/> | Edit Copy Delete | 1 | Demo | NULL | 2020-09-06 02:33:32.281687 | 2020-09-06 02:33:32.281687 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 2 | Texto enriquecido v2 | NULL | 2020-09-06 03:22:21.328455 | 2020-09-06 04:47:03.852745 | 1 |

☐ Check all | With selected: Edit Copy Delete Export

5.3 Configurar relação nos modelos

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
end
```

app\models\user.rb

```
class User < ApplicationRecord
  # Include default devise modules. Others available are:
  # :confirmable, :lockable, :timeoutable, :trackable and :omniauthable
  devise :database_authenticatable, :registerable,
         :recoverable, :rememberable, :validatable
  has_many :articles
end
```

Usando o console do rails para ver os relacionamentos

rails console

```
Article.last
User.find(1)
article = Article.last
article.user
```

```
C:\Sites\apppblog (master)
> rails console
Loading development environment (Rails 6.0.3.2)
irb(main):001:0> Article.last
(171.3ms) SET NAMES utf8mb4, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_V
ALUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
Article Load (15.5ms) SELECT `articles`.* FROM `articles` ORDER BY `articles`.`id` DESC LIMIT 1
=> #<Article id: 2, title: "Texto enriquecido v2", status: nil, created_at: "2020-09-06 03:22:21", updated_at: "202
0-09-06 04:47:03", user_id: 1>
irb(main):002:0> User.find(1)
User Load (0.8ms) SELECT `users`.* FROM `users` WHERE `users`.`id` = 1 LIMIT 1
=> #<User id: 1, email: "betopinheiro1005@yahoo.com.br", created_at: "2020-09-06 16:00:48", updated_at: "2020-09-06
16:00:48">
irb(main):003:0> article = Article.last
Article Load (1.0ms) SELECT `articles`.* FROM `articles` ORDER BY `articles`.`id` DESC LIMIT 1
=> #<Article id: 2, title: "Texto enriquecido v2", status: nil, created_at: "2020-09-06 03:22:21", updated_at: "202
0-09-06 04:47:03", user_id: 1>
irb(main):004:0> article.user
User Load (0.7ms) SELECT `users`.* FROM `users` WHERE `users`.`id` = 1 LIMIT 1
=> #<User id: 1, email: "betopinheiro1005@yahoo.com.br", created_at: "2020-09-06 16:00:48", updated_at: "2020-09-06
16:00:48">
irb(main):005:0> |
```

```
User.find(1)
user.articles
```

```
irb(main):010:0> user = User.find(1)
User Load (1.0ms) SELECT `users`.* FROM `users` WHERE `users`.`id` = 1 LIMIT 1
=> #<User id: 1, email: "betopinheiro1005@yahoo.com.br", created_at: "2020-09-06 16:00:48", updated_at: "2020-09-06
16:00:48">
irb(main):011:0> user.articles
Article Load (27.6ms) SELECT `articles`.* FROM `articles` WHERE `articles`.`user_id` = 1 LIMIT 11
=> #<ActiveRecord::Associations::CollectionProxy [#<Article id: 1, title: "Demo", status: nil, created_at: "2020-09
-06 02:33:32", updated_at: "2020-09-06 02:33:32", user_id: 1>, #<Article id: 2, title: "Texto enriquecido v2", stat
us: nil, created_at: "2020-09-06 03:22:21", updated_at: "2020-09-06 04:47:03", user_id: 1>]>
irb(main):012:0> |
```

5.4 Guardar autor de um artigo

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = current_user.articles.create(title: params[:article][:title],
      content: params[:article][:content])
    redirect_to @article
  end

  def show
  end

  def edit
  end

  def update
    @article.update(title: params[:article][:title], content: params[:article][:content])
    redirect_to @article
  end

  def destroy
    @article.destroy
    redirect_to articles_path
  end

  private

  def find_article
    @article = Article.find(params[:id])
  end
end
```

Criando uma nova conta

Senha: 123456

localhost:3000/users/sign_up

90%

Início

Artigos

Escrever

Login

Registro

Criar conta

EMAIL

uriel_hernandez@gmail.com

SENHA (6 caracteres, no mínimo)

••••••

CONFIRMAR SENHA

••••••

Cadastrar

[Já tenho conta](#)

localhost:3000

90%

Welcome! You have signed up successfully.

Início

Artigos

Escrever

Sair

Olá, [uriel_hernandez@gmail.com!](#)

[Início](#)

Criando um novo artigo

localhost:3000/articles/new

90%

Início

Artigos

Escrever

Sair

TITLE

Melhorias da versão 6 do Ruby on Rails

CONTENT

B

I

S

L

TT

”

<

>

≡

≡

≡

≡

Este é um artigo criado por Uriel Hernandez que aborda as melhorias nessa nova versão do Ruby on Rails.

Create Article

Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

`SELECT * FROM `articles``

☐ Profiling [Edit inline] [Edit] [Export]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

| | | id | title | status | created_at | updated_at | user_id |
|--------------------------|------------------|----|--|--------|----------------------------|----------------------------|---------|
| <input type="checkbox"/> | Edit Copy Delete | 1 | Demo | NULL | 2020-09-06 02:33:32.281687 | 2020-09-06 02:33:32.281687 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 2 | Texto enriquecido v2 | NULL | 2020-09-06 03:22:21.328455 | 2020-09-06 04:47:03.852745 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 4 | Melhorias da versão 6 do Ruby on Rails | NULL | 2020-09-06 21:00:42.622564 | 2020-09-06 21:00:44.314574 | 2 |

☐ Check all | With selected: Edit Copy Delete Export

localhost:3000/articles/

Início Artigos Escrever Sair

Lista de artigos

DEMO

2020-09-06 02:33:32 UTC

[Ler o artigo](#)

TEXTO ENRIQUECIDO V2

2020-09-06 03:22:21 UTC

[Ler o artigo](#)

MELHORIAS DA VERSÃO 6 DO RUBY ON RAILS

2020-09-06 21:00:42 UTC

[Ler o artigo](#)

localhost:3000/articles/4

Início Artigos Escrever Sair

Melhorias da versão 6 do Ruby on Rails

Este é um artigo criado por Uriel Hernandez que aborda as melhorias nessa nova versão do Ruby on Rails.

[Excluir o artigo](#)

Verificando com o console do Rails

Article.last.user

```
C:\Sites\lappblog (master)
> rails console
Loading development environment (Rails 6.0.3.2)
irb(main):001:0> Article.last.user
(0.9ms) SET NAMES utf8mb4, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_VAL
UE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
Article Load (47.0ms) SELECT `articles`. * FROM `articles` ORDER BY `articles`.`id` DESC LIMIT 1
User Load (0.6ms) SELECT `users`. * FROM `users` WHERE `users`.`id` = 2 LIMIT 1
=> #<User id: 2, email: "uriel_hernandez@gmail.com", created_at: "2020-09-06 20:34:18", updated_at: "2020-09-06 20:
34:18">
irb(main):002:0> |
```

5.5 Mostrar objetos das associações

config\routes.rb

```
Rails.application.routes.draw do
  devise_for :users
  get "/bemvindo", to: "home#index"
  root to: "home#index"

  get "/articles/user/:user_id", to: "articles#from_author"
  get "/articles", to: "articles#index"
  get "/articles/new", to: "articles#new"
  get "/articles/:id", to: "articles#show"
  get "/articles/:id/edit", to: "articles#edit"

  patch "/articles/:id", to: "articles#update", as: :article
  post "/articles", to: "articles#create"
  delete "/articles/:id", to: "articles#destroy"
end
```

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = current_user.articles.create(title: params[:article][:title],
                                             content: params[:article][:content])
    redirect_to @article
    # render json: @article
  end

  def show
  end

  def edit
  end
```

```

def update
  @article.update(title: params[:article][:title], content: params[:article][:content])
  redirect_to @article
end

def destroy
  @article.destroy
  redirect_to articles_path
end

def from_author
  @user = User.find(params[:user_id])
end

private

def find_article
  @article = Article.find(params[:id])
end
end

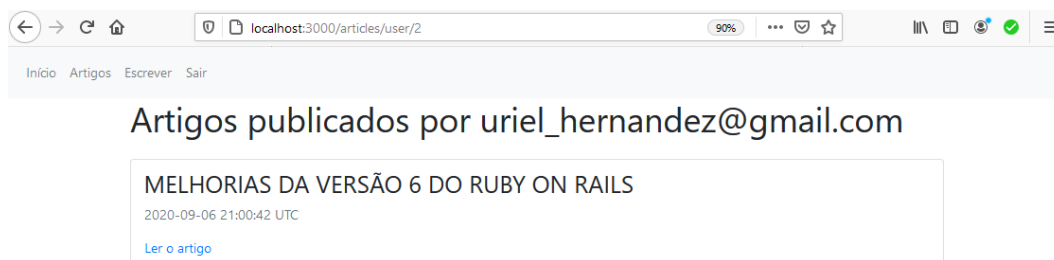
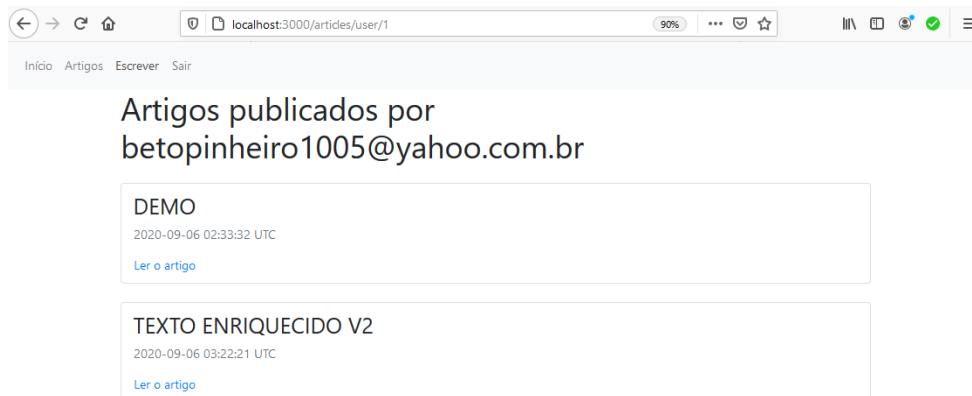
```

app\views\articles\from_author.html.erb

```

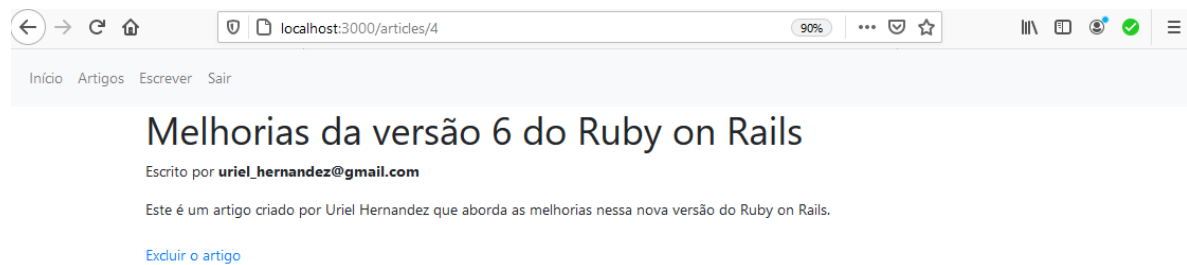
<div class="large-container center-block">
  <h1>Artigos publicados por <%= @user.email %></h1>
  <%= render @user.articles %>
</div>

```



app\views\articles\show.html.erb

```
<div class="large-container center-block">
  <h1><%= @article.title %></h1>
  <p>Escrito por <strong><%= @article.user.email %></strong></p>
  <div>
    <%= @article.content %>
  </div>
  <div class="margin-top">
    <%= link_to "Excluir o artigo", @article, method: :delete %>
  </div>
</div>
```



AULA 06 - BOAS PRÁTICAS

6.1 Parâmetros fortes (strong parameters)

Parâmetros previnem ataques de formulários.

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new, :from_author]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = current_user.articles.create(article_params)
    redirect_to @article
    # render json: @article
  end

  def show
  end

  def edit
  end

  def update
    @article.update(article_params)
    redirect_to @article
  end

  def destroy
    @article.destroy
    redirect_to articles_path
  end

  def from_author
    @user = User.find(params[:user_id])
  end

  private
```



```
def find_article
  @article = Article.find(params[:id])
end

def article_params
  params.require(:article).permit(:title, :content)
end
```

Criando um novo artigo



The screenshot shows a web browser at the URL `localhost:3000/articles/new`. The page has a navigation bar with links: `Início`, `Artigos`, `Escrever`, and `Sair`. The form is titled "TITLE" and contains a text input field with the value "Artigo para teste de strong parametes". Below the title is a "CONTENT" section with a rich text editor toolbar (bold, italic, link, unlink, text color, background color, bulleted list, numbered list, indent, outdent, undo, redo) and a text area containing the text "Artigo sendo criado para testar a funcionalidade de parâmetros fortes.". At the bottom of the form is a "Create Article" button.



The screenshot shows the article show page at the URL `localhost:3000/articles/5`. The page displays the article title "Artigo para teste de strong parametes" in a large font. Below the title, it says "Escrito por `uriel_hernandez@gmail.com`". The content of the article is "Artigo sendo criado para testar a funcionalidade de parâmetros fortes.". At the bottom of the article content is a link "Excluir o artigo".

Editando um artigo



The screenshot shows the article edit page at the URL `localhost:3000/articles/5/edit`. The form is titled "TITLE" and contains a text input field with the value "Artigo para teste de strong parameters - Corrigido". Below the title is a "CONTENT" section with a rich text editor toolbar and a text area containing the text "Artigo sendo criado para testar a funcionalidade de parâmetros fortes.". At the bottom of the form is an "Update Article" button.

Artigo para teste de strong parameters - Corrigido

Escrito por **uriel_hernandez@gmail.com**

Artigo sendo criado para testar a funcionalidade de parâmetros fortes.

[Excluir o artigo](#)

6.2 O que é REST

REpresentational State Transfer

Regras de comunicação entre cliente e servidor.

São princípios que definem como se dará a comunicação entre equipes.

Seis limitantes em REST

1. A arquitetura cliente/servidor
2. Que seja Stateless (sem estado)
3. Cacheabilidade
4. Que o sistema pode estar baseado em camadas
5. Que possua uma interface uniforme
6. Que possa enviar código sob demanda

1 - Arquitetura cliente/servidor

O benefício desse princípio é a portabilidade de elementos. A interface pode ser multi-plataforma e funcionar independente do servidor.

2 - Que seja Stateless

Não existe contexto entre cliente e servidor. O servidor não é capaz de identificar o cliente. O cliente deve enviar ao servidor todo o necessário para completar essa petição. Cada petição entre os dois componentes devem ser independentes e nunca dependerá de petições anteriores. Esse princípio beneficia o rendimento do servidor.

3 - Princípio da Cacheabilidade

Aborda da possibilidade que algumas respostas podem ter de armazenar em cache. O servidor deve definir quais respostas devem ser cacheadas e quais não. E por quanto tempo.

4 - Princípio do sistema em camadas

O servidor deve estar composto de distintas camadas. Cada camada com uma responsabilidade bem definida. As camadas devem ser independentes uma das outras. Uma camada deve se comunicar com as camadas adjacentes.

5 - Interface uniforme

Junto com a regra de não estado são os princípios mais importantes. Permite que cada camada do sistema evolua independentemente (a comunicação é standard).

6 - Código sob demanda

Esta regra está definida para que o servidor possa enviar scripts e códigos de modo instantâneo para estender a funcionalidade do cliente. É uma regra opcional.

6.3 Rotas REST

config/routes.rb

```
Rails.application.routes.draw do
  devise_for :users
  get "/bemvindo", to: "home#index"
  root to: "home#index"

  resources :articles do
    get "/user/:user_id", to: "articles#from_author", on: :collection
  end
end
```

app/views/partials/_nav.html.erb

```
<nav class="navbar navbar-expand-lg navbar-light bg-light padding">
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item">
        <%= link_to "Início", root_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Artigos", articles_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Escrever", new_article_path, class:"nav-link" %>
      </li>
      <% if user_signed_in? %>
      <li class="nav-item">
        <%= link_to "Sair", destroy_user_session_path, method: :delete, class:"nav-link" %>
      </li>
      <% else %>
      <li class="nav-item">
        <%= link_to "Login", new_user_session_path, class:"nav-link" %>
      </li>
      <li class="nav-item">
        <%= link_to "Registro", new_user_registration_path, class:"nav-link" %>
      </li>
      <% end %>
    </ul>
  </div>
</nav>
```

←

→

↺

🏠

🔒 localhost:3000/articles/new

90%

⋮

👤

🌟

🔍

📖

👤

✅

☰

Início

Artigos

Escrever

Sair

TITLE

CONTENT

B

I

U

🔗

↕

“”

<>

☰

☷

↶

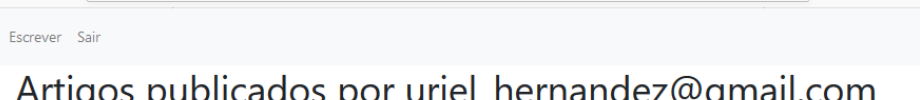
↷

📎

↶

↷

Create Article



← → ↺ 🏠

🔒 📄 localhost:3000/artigos/user/2 90% ... 📄 📧 ✅ ☰

Início Artigos Escrever Sair

Artigos publicados por uriel_hernandez@gmail.com

MELHORIAS DA VERSÃO 6 DO RUBY ON RAILS

2020-09-06 21:00:42 UTC

[Ler o artigo](#)













ARTIGO PARA TESTE DE STRONG PARAMETERS - CORRIGIDO

2020-09-06 22:47:49 UTC

[Ler o artigo](#)

The screenshot shows a web browser window with the address bar displaying 'localhost:3000/articles' and a 90% zoom level. The browser's navigation bar includes links for 'Início', 'Artigos', 'Escrever', and 'Sair'. The main content area is titled 'Lista de artigos' and contains four article cards. Each card displays the article title, a timestamp, and a link to 'Ler o artigo'.

| Article Title | Timestamp | Action |
|--|-------------------------|------------------------------|
| DEMO | 2020-09-06 02:33:32 UTC | Ler o artigo |
| TEXTO ENRIQUECIDO V2 | 2020-09-06 03:22:21 UTC | Ler o artigo |
| MELHORIAS DA VERSÃO 6 DO RUBY ON RAILS | 2020-09-06 21:00:42 UTC | Ler o artigo |
| ARTIGO PARA TESTE DE STRONG PARAMETERS - CORRIGIDO | 2020-09-06 22:47:49 UTC | Ler o artigo |





localhost:3000/articles/4
90%









[Início](#)
[Artigos](#)
[Escrever](#)
[Sair](#)

[Excluir o artigo](#)

AULA 07 - RELAÇÕES MUITOS A MUITOS

Scaffold cria um CRUD completo e de forma automática.

7.1 Scaffold de categorias

Gerando scaffold de categorias

rails generate scaffold Category title:string color:string

```
C:\Sites\appblog (master)
λ rails generate scaffold Category title:string color:string
  invoke  active_record
  create  db/migrate/20200907010301_create_categories.rb
  create  app/models/category.rb
  invoke  test_unit
  create  test/models/category_test.rb
  create  test/fixtures/categories.yml
  invoke  resource_route
  route   resources :categories
  invoke  scaffold_controller
  create  app/controllers/categories_controller.rb
  invoke  erb
  create  app/views/categories
  create  app/views/categories/index.html.erb
  create  app/views/categories/edit.html.erb
  create  app/views/categories/show.html.erb
  create  app/views/categories/new.html.erb
  create  app/views/categories/_form.html.erb
  invoke  test_unit
  create  test/controllers/categories_controller_test.rb
  create  test/system/categories_test.rb
  invoke  helper
  create  app/helpers/categories_helper.rb
  invoke  test_unit
  invoke  jbuilder
  create  app/views/categories/index.json.jbuilder
  create  app/views/categories/show.json.jbuilder
  create  app/views/categories/_category.json.jbuilder
  invoke  assets
  invoke  scss
  create  app/assets/stylesheets/categories.scss
  invoke  scss
  create  app/assets/stylesheets/scaffolds.scss
```

Migration

db\migrate\20200907010301_create_categories.rb

```
class CreateCategories < ActiveRecord::Migration[6.0]
  def change
    create_table :categories do |t|
      t.string :title
      t.string :color

      t.timestamps
    end
  end
end
```

Model

app\models\category.rb

```
class Category < ApplicationRecord
end
```

Controller

app\controllers\categories_controller.rb

```
class CategoriesController < ApplicationController
  before_action :set_category, only: [:show, :edit, :update, :destroy]

  # GET /categories
  # GET /categories.json
  def index
    @categories = Category.all
  end

  # GET /categories/1
  # GET /categories/1.json
  def show
  end

  # GET /categories/new
  def new
    @category = Category.new
  end

  # GET /categories/1/edit
  def edit
  end

  # POST /categories
  # POST /categories.json
  def create
    @category = Category.new(category_params)

    respond_to do |format|
      if @category.save
        format.html { redirect_to @category, notice: 'Category was successfully created.' }
        format.json { render :show, status: :created, location: @category }
      else
        format.html { render :new }
        format.json { render json: @category.errors, status: :unprocessable_entity }
      end
    end
  end

  # PATCH/PUT /categories/1
  # PATCH/PUT /categories/1.json
  def update
    respond_to do |format|
```



```

    if @category.update(category_params)
      format.html { redirect_to @category, notice: 'Category was successfully updated.' }
      format.json { render :show, status: :ok, location: @category }
    else
      format.html { render :edit }
      format.json { render json: @category.errors, status: :unprocessable_entity }
    end
  end
end

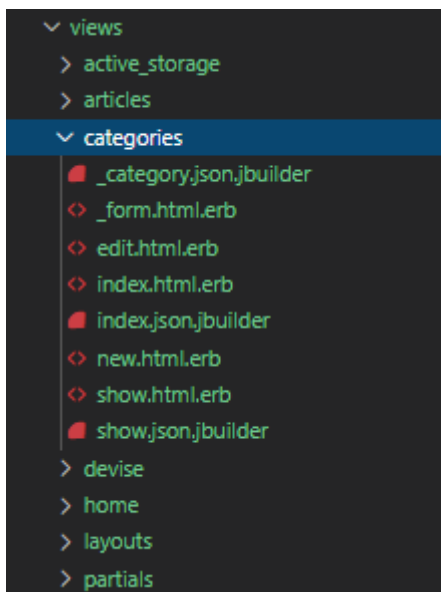
# DELETE /categories/1
# DELETE /categories/1.json
def destroy
  @category.destroy
  respond_to do |format|
    format.html { redirect_to categories_url, notice: 'Category was successfully destroyed.' }
    format.json { head :no_content }
  end
end

private
# Use callbacks to share common setup or constraints between actions.
def set_category
  @category = Category.find(params[:id])
end

# Only allow a list of trusted parameters through.
def category_params
  params.require(:category).permit(:title, :color)
end
end

```

Views



app\views\categories\index.html.erb

```
<p id="notice"><%= notice %></p>

<h1>Categories</h1>

<table>
  <thead>
    <tr>
      <th>Title</th>
      <th>Color</th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @categories.each do |category| %>
      <tr>
        <td><%= category.title %></td>
        <td><%= category.color %></td>
        <td><%= link_to 'Show', category %></td>
        <td><%= link_to 'Edit', edit_category_path(category) %></td>
        <td><%= link_to 'Destroy', category, method: :delete, data: { confirm: 'Are you sure?' } %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>

<%= link_to 'New Category', new_category_path %>
```

app\views\categories\new.html.erb

```
<h1>New Category</h1>

<%= render 'form', category: @category %>

<%= link_to 'Back', categories_path %>
```

app\views\categories\edit.html.erb

```
<h1>Editing Category</h1>

<%= render 'form', category: @category %>

<%= link_to 'Show', @category %> |
<%= link_to 'Back', categories_path %>
```

app\views\categories_form.html.erb

```
<%= form_with(model: category, local: true) do |form| %>
  <% if category.errors.any? %>
    <div id="error_explanation">
      <h2><%= pluralize(category.errors.count, "error") %> prohibited this category from being
saved:</h2>

      <ul>
        <% category.errors.full_messages.each do |message| %>
          <li><%= message %></li>
        <% end %>
      </ul>
    </div>
  <% end %>

  <div class="field">
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>

  <div class="field">
    <%= form.label :color %>
    <%= form.text_field :color %>
  </div>

  <div class="actions">
    <%= form.submit %>
  </div>
<% end %>
```

app\views\categories\show.html.erb

```
<p id="notice"><%= notice %></p>

<p>
  <strong>Title:</strong>
  <%= @category.title %>
</p>

<p>
  <strong>Color:</strong>
  <%= @category.color %>
</p>

<%= link_to 'Edit', edit_category_path(@category) %> |
<%= link_to 'Back', categories_path %>
```

←

→

↺

🏠

🔒

📄

localhost:3000/categories

Início

Artigos

Escrever

Sair

Categories

Title Color

[New Category](#)

←

→

↺

🏠

🔒

📄

localhost:3000/categories/new

Início

Artigos

Escrever

Sair

New Category

TITLE

COLOR

Create Category

[Back](#)

Criando uma categoria

←

→

↺

🏠

🔒

📄

localhost:3000/categories/new

Início

Artigos

Escrever

Sair

New Category

TITLE

Programação

COLOR

black

Create Category

[Back](#)

←

→

↺

🏠

🔒

📄

localhost:3000/categories/1

Category was successfully created.

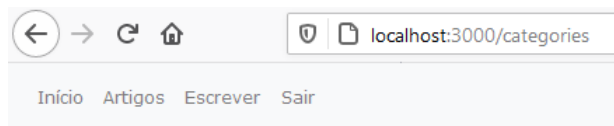
[Início](#) [Artigos](#) [Escrever](#) [Sair](#)

Category was successfully created.

Title: Programação

Color: black

[Edit](#) | [Back](#)



Categories

Title **Color**
Programação black Show [Edit](#) Destroy

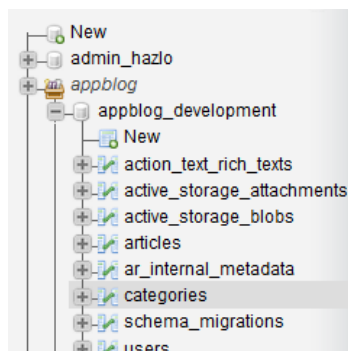
New Category

- Exclua o arquivo app/assets/stylesheets/scaffold.scss

Executando as migrations

`rake db:migrate`

```
C:\Sites\appblog (master)
λ rake db:migrate
== 20200907010301 CreateCategories: migrating =====
-- create_table(:categories)
   -> 0.5881s
== 20200907010301 CreateCategories: migrated (0.5896s) =====
```



Personalizando as views

`app\views\categories\new.html.erb`

```
<div class="small-container center-block">
  <h1>Nova Categoria</h1>
  <%= render 'form', category: @category %>
  <%= link_to 'Back', categories_path %>
</div>
```

app\views\categories\edit.html.erb

```
<div class="small-container center-block">
  <h1>Editor Categoria</h1>

  <%= render 'form', category: @category %>

  <div class="margin-top">
    <%= link_to 'Show', @category %> |
    <%= link_to 'Back', categories_path %>
  </div>

</div>
```

app\views\categories_form.html.erb

```
<%= form_with(model: category, local: true) do |form| %>
  <% if category.errors.any? %>
    <div id="error_explanation">
      <h2><%= pluralize(category.errors.count, "error") %> prohibited this category from being
      saved:</h2>

      <ul>
        <% category.errors.full_messages.each do |message| %>
          <li><%= message %></li>
        <% end %>
      </ul>
    </div>
  <% end %>

  <div class="field">
    <%= form.label :title, "Título" %>
    <%= form.text_field :title %>
  </div>

  <div class="field">
    <%= form.label :color, "Cor" %>
    <%= form.color_field :color %>
  </div>

  <div class="actions margin-top">
    <%= form.submit "Enviar", class: "btn btn-primary" %>
  </div>
<% end %>
```

app\views\categories\show.html.erb

```
<div class="small-container center-block">
  <p id="notice"><%= notice %></p>

  <p>
    <strong>Título:</strong>
    <%= @category.title %>
  </p>

  <p>
    <strong>Cor:</strong>
    <%= @category.color %>
  </p>

  <div class="margin-top">
    <%= link_to 'Edit', edit_category_path(@category) %> |
    <%= link_to 'Back', categories_path %>
  </div>

</div>
```

app\views\categories\index.html.erb

```
<div class="small-container center-block">
  <p id="notice"><%= notice %></p>

  <h1>Categorias</h1>

  <table class="table table-striped">
    <thead>
      <tr>
        <th>Título</th>
        <th>Cor</th>
        <th colspan="3"></th>
      </tr>
    </thead>

    <tbody>
      <% @categories.each do |category| %>
        <tr>
          <td><%= category.title %></td>
          <td><%= category.color %></td>
          <td><%= link_to 'Show', category %></td>
          <td><%= link_to 'Edit', edit_category_path(category) %></td>
          <td><%= link_to 'Destroy', category, method: :delete, data: { confirm: 'Tem certeza que deseja excluir?' } %></td>
        </tr>
      <% end %>
    </tbody>
  </table>
  <br>
  <%= link_to 'New Category', new_category_path %>
</div>
```

localhost:3000/categories/new

90%

[Início](#) [Artigos](#) [Escrever](#) [Sair](#)

Nova Categoria

TÍTULO

COR

Enviar

Back

localhost:3000/categories/1/edit

90%

[Início](#) [Artigos](#) [Escrever](#) [Sair](#)

Editar Categoria

TÍTULO

Programação

COR

Enviar

Show | Back

localhost:3000/categories/1/

[Início](#) [Artigos](#) [Escrever](#) [Sair](#)

Título: Programação

Cor: black

Edit | Back

localhost:3000/categories

90%

[Início](#) [Artigos](#) [Escrever](#) [Sair](#)

Categorias

| Título | Cor | | | |
|-------------|---------|------|------|---------|
| Programação | #000000 | Show | Edit | Destroy |

New Category

7.2 Tabelas associativas e relação nos modelos

Gerando o model HasCategory

rails generate model HasCategory article:references category:references

```
C:\Sites\appblog (master)
λ rails generate model HasCategory article:references category:references
  invoke  active_record
  create  db/migrate/20200907024131_create_has_categories.rb
  create  app/models/has_category.rb
  invoke  test_unit
  create  test/models/has_category_test.rb
  create  test/fixtures/has_categories.yml
```

db\migrate\20200907024131_create_has_categories.rb

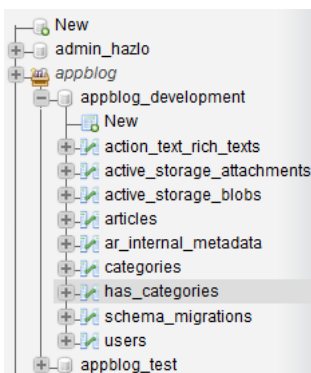
```
class CreateHasCategories < ActiveRecord::Migration[6.0]
  def change
    create_table :has_categories do |t|
      t.references :article, null: false, foreign_key: true
      t.references :category, null: false, foreign_key: true

      t.timestamps
    end
  end
end
```

Executando a migration

rake db:migrate

```
C:\Sites\appblog (master)
λ rake db:migrate
== 20200907024131 CreateHasCategories: migrating =====
-- create_table(:has_categories)
-> 0.9847s
== 20200907024131 CreateHasCategories: migrated (0.9868s) =====
```



Server: localhost:3306 » Database: appblog_development » Table: has_categories

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|----------------------------|----------------------|-------------|-----------|------------|------|---------|----------|----------------|--|
| <input type="checkbox"/> 1 | id 🔑 | bigint(20) | | | No | None | | AUTO_INCREMENT | Change Drop More |
| <input type="checkbox"/> 2 | article_id 🔑 | bigint(20) | | | No | None | | | Change Drop More |
| <input type="checkbox"/> 3 | category_id 🔑 | bigint(20) | | | No | None | | | Change Drop More |
| <input type="checkbox"/> 4 | created_at | datetime(6) | | | No | None | | | Change Drop More |
| <input type="checkbox"/> 5 | updated_at | datetime(6) | | | No | None | | | Change Drop More |

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Fulltext](#)

Relacionamentos nos modelos

app\models\has_category.rb

```
class HasCategory < ApplicationRecord
  belongs_to :article
  belongs_to :category
end
```

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
  has_many :has_categories
  has_many :categories, through: :has_categories
end
```

app\models\category.rb

```
class Category < ApplicationRecord
  has_many :has_categories
  has_many :articles, through: :has_categories
end
```

7.3 Gravar registros muitos a muitos

app\views\articles_form.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div class="field">
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div class="field">
    <%= form.label :category_elements %>
    <%= form.text_field :category_elements %>
  </div>
  <div class="field">
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div class="margin-top">
    <%= form.submit %>
  </div>
<% end %>
```

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController
  before_action :find_article, except: [:index, :create, :new, :from_author]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
  end

  def create
    @article = current_user.articles.create(article_params)
    @article.save_categories
    redirect_to @article
    # render json: @article
  end

  def show
  end

  def edit
  end
```

```

def update
  @article.update(article_params)
  @article.save_categories
  redirect_to @article
end

def destroy
  @article.destroy
  redirect_to articles_path
end

def from_author
  @user = User.find(params[:user_id])
end

private

def find_article
  @article = Article.find(params[:id])
end

def article_params
  params.require(:article).permit(:title, :content, :category_elements)
end
end

```

app\models\article.rb

```

class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
  has_many :has_categories
  has_many :categories, through: :has_categories
  attr_accessor :category_elements

  def save_categories
    # category_elements 1,2,3
    # Converter isso em um array 1,2,3 =>[1,2,3]
    categories_array = category_elements.split(",")
    # Iterar esse array
    categories_array.each do |category_id|
      # Criar HasCategory
      HasCategory.create(article_id: 1, category_id: 2)
      HasCategory.create(article: self, category_id: category_id)
    end
  end
end
end

```

← → ↻ 🏠 90% ... 🌟 ☆ 🖨️ 📄 🔄 🟢 ☰

Início Artigos Escrever Sair

TITLE

CATEGORY IDS

CONTENT

B *I* S 🔗 **TT** **”** **<>** **≡** **≡** **≡** **≡**

← → ↻ 🏠

Início Artigos Escrever Sair

Demo com categories

Escrito por **betopinheiro1005@yahoo.com.br**

Olá mundo!

[Excluir o artigo](#)

✓ Showing rows 0 - 0 (1 total, Query took 0.0162 seconds.)

`SELECT * FROM `has_categories``

☐ Profiling

☐ Show all | Number of rows: Filter rows:

+ Options

| | id | article_id | category_id | created_at | updated_at |
|---|----|------------|-------------|----------------------------|----------------------------|
| <input type="checkbox"/> Edit Copy Delete | 1 | 7 | 1 | 2020-09-07 05:04:07.436064 | 2020-09-07 05:04:07.436064 |

☐ Check all With selected: Edit Copy Delete Export

Usando o console do Rails

rails console

HasCategory.count

Article.find(1).categories

```
C:\Sites\appblog (master)
λ rails console
Loading development environment (Rails 6.0.3.2)
irb(main):001:0> HasCategory.count
(29.3ms) SET NAMES utf8mb4, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_VA
LUE_ON_ZERO'), @@SESSION.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
(16.9ms) SELECT COUNT(*) FROM `has_categories`
=> 1
irb(main):002:0> Article.find(1).categories
Article Load (30.4ms) SELECT `articles`.* FROM `articles` WHERE `articles`.`id` = 1 LIMIT 1
Category Load (32.0ms) SELECT `categories`.* FROM `categories` INNER JOIN `has_categories` ON `categories`.`id`
= `has_categories`.`category_id` WHERE `has_categories`.`article_id` = 1 LIMIT 11
=> #<ActiveRecord::Associations::CollectionProxy []>
irb(main):003:0> |
```

Criando uma nova categoria

←

→

🏠

🔍

📄

localhost:3000/categories/new

90%

⋮

🔒

☆

Início

Artigos

Escrever

Sair

Nova Categoria

TÍTULO

Tech

COR

Enviar

Back

A screenshot of a web browser window. The address bar shows 'localhost:3000/categories/2'. Below the address bar, a blue banner displays the message 'Category was successfully created.' Below the banner, a navigation bar contains links: 'Início', 'Artigos', 'Escrever', and 'Sair'. The main content area shows the message 'Category was successfully created.' followed by 'Titulo: Tech' and 'Cor: #00#40'. At the bottom, there are links for 'Edit' and 'Back'.

Showing rows 0 - 5 (6 total, Query took 0.0006 seconds.)

SELECT * FROM `articles`

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: Filter rows: Sort by key:

+ Options

| | | id | title | status | created_at | updated_at | user_id |
|--------------------------|--|----|--|--------|----------------------------|----------------------------|---------|
| <input type="checkbox"/> | Edit Copy Delete | 1 | Demo | NULL | 2020-09-06 02:33:32.281687 | 2020-09-06 02:33:32.281687 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 2 | Texto enriquecido v2 | NULL | 2020-09-06 03:22:21.328455 | 2020-09-06 04:47:03.852745 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 4 | Melhorias da versão 6 do Ruby on Rails | NULL | 2020-09-06 21:00:42.622564 | 2020-09-06 21:00:44.314574 | 2 |
| <input type="checkbox"/> | Edit Copy Delete | 5 | Artigo para teste de strong parameters - Corrigido | NULL | 2020-09-06 22:47:49.758651 | 2020-09-06 22:52:01.596020 | 2 |
| <input type="checkbox"/> | Edit Copy Delete | 6 | Demo com categories | NULL | 2020-09-07 04:52:49.428058 | 2020-09-07 04:52:53.804692 | 1 |
| <input type="checkbox"/> | Edit Copy Delete | 7 | Demo com categories | NULL | 2020-09-07 05:04:05.284149 | 2020-09-07 05:30:16.911892 | 1 |

☐ Check all With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

- Como se pode ver o registro ficou duplicado.

Editando o último registro

localhost:3000/articles/7/edit

90%

Início

Artigos

Escrever

Sair

TITLE

Demo com categories 2

CATEGORY ELEMENTS

1.2


CONTENT


B


I


U


[Link](#)























Olá mundo!

Update Article



Usando o console do Rails

rails console

HasCategory.count

Article.find(1).categories

```
irb(main):003:0> HasCategory.count
(1.4ms) SELECT COUNT(*) FROM `has_categories`
=> 3
irb(main):004:0> Article.find(1).categories
Article Load (1.1ms) SELECT `articles`.* FROM `articles` WHERE `articles`.`id` = 1 LIMIT 1
Category Load (0.9ms) SELECT `categories`.* FROM `categories` INNER JOIN `has_categories` ON `categories`.`id` = `has_categories`.`category_id` WHERE `has_categories`.`article_id` = 1 LIMIT 11
=> #<ActiveRecord::Associations::CollectionProxy []>
irb(main):005:0> |
```

Showing rows 0 - 2 (3 total, Query took 0.0047 seconds.)

`SELECT * FROM `has_categories``

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain\]](#)

☐ Show all | Number of rows: | Filter rows: | Sort by key:

+ Options

| | | id | article_id | category_id | created_at | updated_at |
|--------------------------|--|----|------------|-------------|----------------------------|----------------------------|
| <input type="checkbox"/> | Edit Copy Delete | 1 | 7 | 1 | 2020-09-07 05:04:07.436064 | 2020-09-07 05:04:07.436064 |
| <input type="checkbox"/> | Edit Copy Delete | 2 | 7 | 1 | 2020-09-07 05:30:17.338682 | 2020-09-07 05:30:17.338682 |
| <input type="checkbox"/> | Edit Copy Delete | 3 | 7 | 2 | 2020-09-07 05:30:17.568282 | 2020-09-07 05:30:17.568282 |

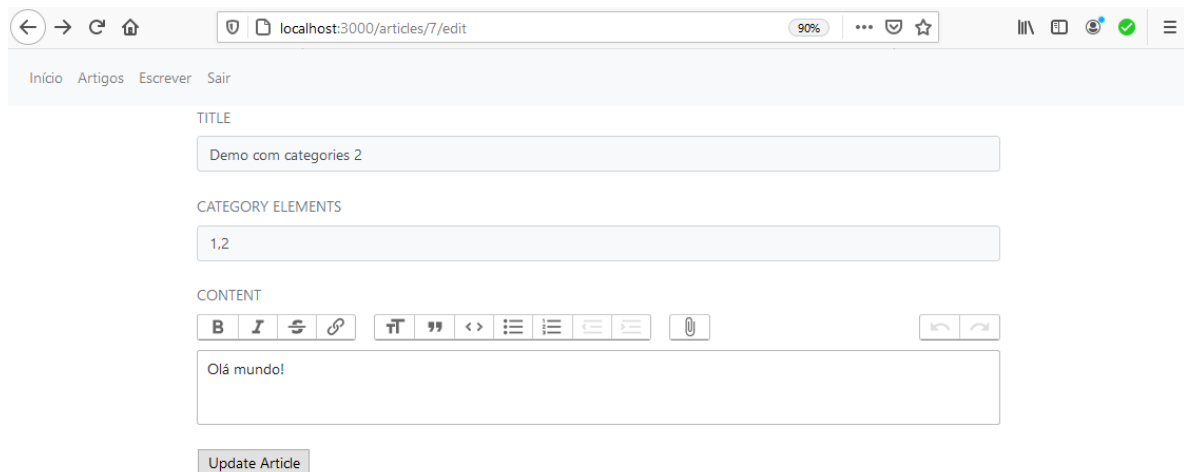
☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

7.4 Evitar registros duplicados

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
  has_many :has_categories
  has_many :categories, through: :has_categories
  attr_accessor :category_elements

  def save_categories
    # category_elements 1,2,3
    # Converter isso em um array 1,2,3 =>[1,2,3]
    categories_array = category_elements.split(",")
    # Iterar esse array
    categories_array.each do |category_id|
      # Criar HasCategory HasCategory < article_id: 1, category_id: 2
      unless HasCategory.where(article:self, category_id:category_id).any?
        HasCategory.find_or_create_by(article: self, category_id: category_id)
      end
    end
  end
end
```



← → ↺ 🏠 localhost:3000/articles/7/edit 90% ... 📄 ⌕ ⌂

Início Artigos Escrever Sair

TITLE

Demo com categories 2

CATEGORY ELEMENTS

1,2

CONTENT

B *I* U 🔗 **¶** **”** **<** **>** **☰** **☷** **☰** **☷** **📎** **↶** **↷**

Olá mundo!

Update Article



← → ↺ 🏠 localhost:3000/articles/7

Início Artigos Escrever Sair

Demo com categories 2

Escrito por **betopinheiro1005@yahoo.com.br**

Olá mundo!

[Excluir o artigo](#)

Usando o console do Rails

rails console

HasCategory.count

```
irb(main):006:0> HasCategory.count  
  (1.0ms)  SELECT COUNT(*) FROM `has_categories`  
=> 3  
irb(main):007:0> |
```

Ou seja, não foi criado um novo registro (duplicado).

7.5 Check boxes

app\views\articles_form.html.erb

```
<%= form_with(model: @article, local: true) do |form| %>
  <div class="field">
    <%= form.label :title %>
    <%= form.text_field :title %>
  </div>
  <div class="field">
    <%= form.label :category_elements %>
    <div class="row">
      <% @categories.each do |category| %>
        <label class="col-6 col-sm-4">
          <%= form.check_box :category_elements, {multiple: true}, category.id, nil %>
          <%= category.title %>
        </label>
      <% end %>
    </div>
  </div>
  <div class="field">
    <%= form.label :content %>
    <%= form.rich_text_area :content %>
  </div>
  <div class="margin-top">
    <%= form.submit %>
  </div>
<% end %>
```

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
  has_many :has_categories
  has_many :categories, through: :has_categories
  attr_accessor :category_elements

  def save_categories
    # category_elements 1,2,3
    # Iterar esse array
    category_elements.each do |category_id|
      # Criar HasCategory HasCategory < article_id: 1, category_id: 2
      HasCategory.find_or_create_by(article: self, category_id: category_id)
    end
  end
end
```

app\controllers\articles_controller.rb

```
class ArticlesController < ApplicationController

  before_action :find_article, except: [:index, :create, :new, :from_author]
  before_action :authenticate_user!, only: [:new, :create, :edit, :update, :destroy]

  def index
    @articles = Article.all
  end

  def new
    @article = Article.new
    @categories = Category.all
  end

  def create
    @article = current_user.articles.create(article_params)
    @article.save_categories
    redirect_to @article
    # render json: @article
  end

  def show
  end

  def edit
    @categories = Category.all
  end

  def update
    @article.update(article_params)
    @article.save_categories
    redirect_to @article
  end

  def destroy
    @article.destroy
    redirect_to articles_path
  end

  def from_author
    @user = User.find(params[:user_id])
  end

  private

  def find_article
    @article = Article.find(params[:id])
  end

  def article_params
    params.require(:article).permit(:title, :content, category_elements: [])
  end
end
```

Eliminando todos os registros de HasCategory

rails console

HasCategory.destroy_all

HasCategory.count

```
irb(main):007:0> HasCategory.destroy_all
HasCategory Load (7.6ms) SELECT `has_categories`.* FROM `has_categories`
(0.9ms) BEGIN
HasCategory Destroy (17.1ms) DELETE FROM `has_categories` WHERE `has_categories`.`id` = 1
(130.3ms) COMMIT
(0.3ms) BEGIN
HasCategory Destroy (81.0ms) DELETE FROM `has_categories` WHERE `has_categories`.`id` = 2
(84.5ms) COMMIT
(0.3ms) BEGIN
HasCategory Destroy (92.7ms) DELETE FROM `has_categories` WHERE `has_categories`.`id` = 3
(76.7ms) COMMIT
=> [#<HasCategory id: 1, article_id: 7, category_id: 1, created_at: "2020-09-07 05:04:07", updated_at: "2020-09-07 05:04:07">, #<HasCategory id: 2, article_id: 7, category_id: 1, created_at: "2020-09-07 05:30:17", updated_at: "2020-09-07 05:30:17">, #<HasCategory id: 3, article_id: 7, category_id: 2, created_at: "2020-09-07 05:30:17", updated_at: "2020-09-07 05:30:17">]
irb(main):008:0> HasCategory.count
(72.9ms) SELECT COUNT(*) FROM `has_categories`
=> 0
```

Atualizando um artigo

←

→

↶

🏠

localhost:3000/articles/1/edit

90%

⋮

🔒

☆

🔍

📄

🔄

✅

☰

Início Artigos Escrever Sair

TITLE

Demo

CATEGORY ELEMENTS

☒ PROGRAMAÇÃO

☒ TECH

CONTENT

B

I

U

🔗

↶

↷

<>

☰

☰

☰

☰

📎

↶

↷

Informando a que categorias pertence o artigo.

Update Article

←

→

↶

🏠

localhost:3000/articles/1

90%

⋮

🔒

☆

🔍

📄

🔄

✅

☰

Início Artigos Escrever Sair

Demo

Escrito por **betopinheiro1005@yahoo.com.br**

Informando a que categorias pertence o artigo.

[Excluir o artigo](#)

rails console

HasCategory.count

```
irb(main):009:0> HasCategory.count
(3.3ms) SELECT COUNT(*) FROM `has_categories`
=> 2
```

Showing rows 0 - 1 (2 total, Query took 0.1550 seconds.)
 SELECT * FROM `has_categories`
 Profiling [Edit inline] [Edit] [Explain SQL] [Create]
 Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: PRIMARY (ASC)
 + Options
 id article_id category_id created_at updated_at
 Edit Copy Delete 4 1 1 2020-09-07 06:54:24.253727 2020-09-07 06:54:24.253727
 Edit Copy Delete 5 1 2 2020-09-07 06:54:24.338463 2020-09-07 06:54:24.338463
 Check all With selected: Edit Copy Delete Export

rails console

HasCategory.destroy_all

HasCategory.count

```
irb(main):010:0> HasCategory.destroy_all
HasCategory Load (0.9ms) SELECT `has_categories`.* FROM `has_categories`
(0.4ms) BEGIN
HasCategory Destroy (0.8ms) DELETE FROM `has_categories` WHERE `has_categories`.`id` = 4
(56.0ms) COMMIT
(0.3ms) BEGIN
HasCategory Destroy (45.4ms) DELETE FROM `has_categories` WHERE `has_categories`.`id` = 5
(67.0ms) COMMIT
=> [#<HasCategory id: 4, article_id: 1, category_id: 1, created_at: "2020-09-07 06:54:24", updated_at: "2020-09-07 06:54:24">, #<HasCategory id: 5, article_id: 1, category_id: 2, created_at: "2020-09-07 06:54:24", updated_at: "2020-09-07 06:54:24">]
irb(main):011:0> HasCategory.count
(0.6ms) SELECT COUNT(*) FROM `has_categories`
=> 0
```

Atualizando o artigo

localhost:3000/articles/1/edit
 90%
 Início Artigos Escrever Sair

TITLE
 Demo

CATEGORY ELEMENTS
 PROGRAMACAO
 TECH

CONTENT
 Informando a que categorias pertence o artigo.
 Update Article

← → ↻ 🏠 🔒 localhost:3000/articles/1 90% ... 📄 📌 📱 🟢 ☰

Início Artigos Escrever Sair

Demo

Escrito por **betopinheiro1005@yahoo.com.br**

Informando a que categorias pertence o artigo.

[Excluir o artigo](#)

rails console

HasCategory.count

```
irb(main):012:0> HasCategory.count
(0.8ms) SELECT COUNT(*) FROM `has_categories`
=> 1
irb(main):013:0> |
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0042 seconds.)

`SELECT * FROM `has_categories``

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create\]](#)

☐ Show all | Number of rows: Filter rows:

+ Options

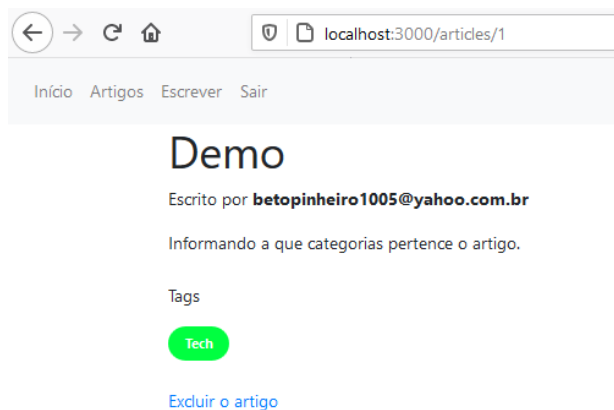
| | | | | id | article_id | category_id | created_at | updated_at |
|--------------------------|--|--|--|----|------------|-------------|----------------------------|----------------------------|
| <input type="checkbox"/> | | | | 6 | 1 | 2 | 2020-09-07 07:01:51.352185 | 2020-09-07 07:01:51.352185 |

☐ Check all With selected: Edit Copy Delete Export

7.6 Mostrar objetos associados

app\views\articles\show.html.erb

```
<div class="large-container center-block">
  <h1><%= @article.title %></h1>
  <p>Escrito por <strong><%= @article.user.email %></strong></p>
  <div>
    <%= @article.content %>
  </div>
  <div class="margin-top">
    <p class="label">Tags</p>
    <% @article.categories.each do |category| %>
      <span class="badge badge-pill padding" style="background-color: <%= category.color %>">
        <%= link_to category.title, category, class: "text-white"%>
      </span>
    <% end %>
  </div>
  <div class="margin-top">
    <%= link_to "Excluir o artigo", @article, method: :delete %>
  </div>
</div>
```



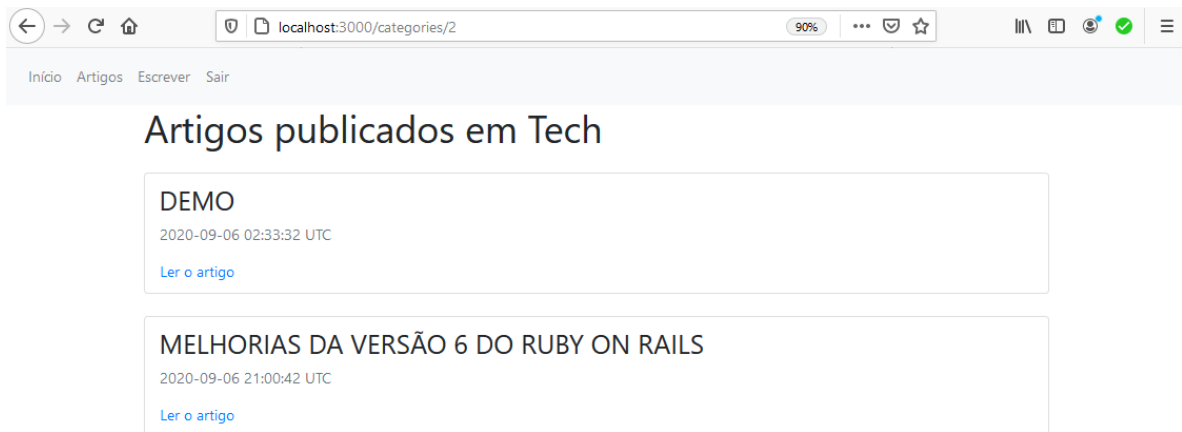
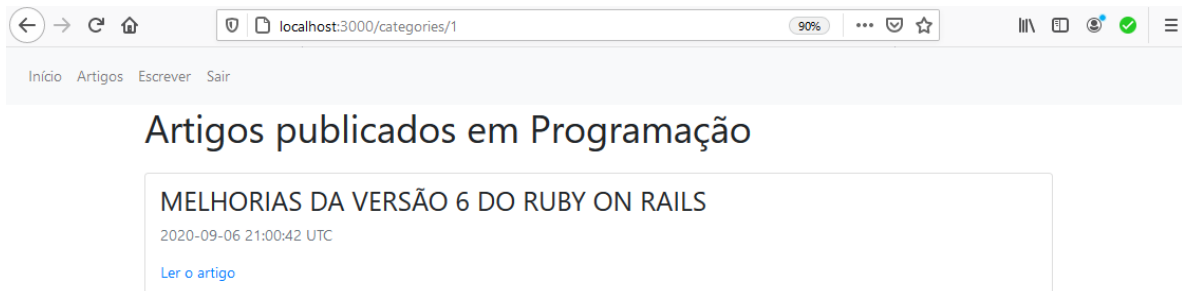
Editando um artigo





app\views\categories\show.html.erb

```
<div class="small-container center-block">
  <h1>Artigos publicados em <%= @category.title %></h1>
  <%= render @category.article %>
</div>
```



7.7 Eliminar associação

app\models\article.rb

```
class Article < ApplicationRecord
  has_rich_text :content
  belongs_to :user #campo adicional
  has_many :has_categories
  has_many :categories, through: :has_categories
  attr_accessor :category_elements

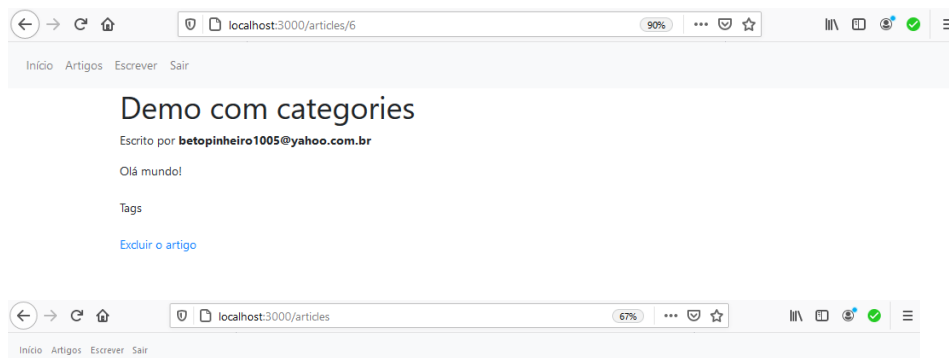
  def save_categories
    # category_elements 1,2,3
    # Iterar esse array

    return has_categories.destroy_all if category_elements.nil? || category_elements.empty?

    has_categories.where.not(category_id: category_elements).destroy_all

    category_elements.each do |category_id|
      # Criar HasCategory
      HasCategory < article_id: 1, category_id: 2
      HasCategory.find_or_create_by(article: self, category_id: category_id)
    end
  end
end
```

Excluindo um artigo



Editando um artigo

localhost:3000/articles/7/edit

67%

Início

Artigos

Escrever

Sair

TITLE

Demo com categories 2

CATEGORY ELEMENTS

☐ PROGRAMAÇÃO

☐ TECH

CONTENT

B

I

S

P

↶

↷

<>

≡

≡

≡

≡

Olá mundo!

Update Article

localhost:3000/articles/7/edit

67%

Início

Artigos

Escrever

Sair

TITLE

Demo com categories

CATEGORY ELEMENTS

☒ PROGRAMAÇÃO

☐ TECH

CONTENT

B

I

S

P

↶

↷

<>

≡

≡

≡

≡

Olá mundo!

Update Article

localhost:3000/articles/7

67%

Início

Artigos

Escrever

Sair

Demo com categories

Escrito por betopinheiro1005@yahoo.com.br

Olá mundo!

Tags

Programação

[Excluir o artigo](#)

AULA 08 - ASPECTOS SOCIAIS DO BLOG

8.1 Subir arquivos

app\models\user.rb

```
class User < ApplicationRecord
  # Include default devise modules. Others available are:
  # :confirmable, :lockable, :timeoutable, :trackable and :omniauthable
  devise :database_authenticatable, :registerable,
         :recoverable, :rememberable, :validatable
  has_many :articles
  has_one_attached :avatar
end
```

app\views\users\edit.html.erb

```
<div class="small-container center-block">
  <p class="font-weight-bold text-uppercase margin-top">
    Editar usuário
  </p>

  <%= form_with(model: current_user, local: true) do |form| %>
    <div class="field">
      <%= form.label :avatar %>
      <%= form.file_field :avatar %>
    </div>
    <div class="field">
      <%= form.submit "Gravar", class: "btn btn-primary" %>
    </div>
  <% end %>
</div>
```

Criando o controller Users com o método edit

rails generate controller Users edit

```
C:\Sites\appblog (master)
λ rails generate controller Users edit
   create  app/controllers/users_controller.rb
   route   get 'users/edit'
   invoke  erb
   create  app/views/users
   create  app/views/users/edit.html.erb
   invoke  test_unit
   create  test/controllers/users_controller_test.rb
   invoke  helper
   create  app/helpers/users_helper.rb
   invoke  test_unit
   invoke  assets
   invoke  scss
   create  app/assets/stylesheets/users.scss
```

config\routes.rb

```
Rails.application.routes.draw do
  resources :categories
  devise_for :users
  get "/bemvindo", to: "home#index"

  get "/perfil", to: "users#edit"
  resources :users, only: [:update]

  root to: "home#index"
  resources :articles do
    get "/user/:user_id", to: "articles#from_author", on: :collection
  end
end
```

app\controllers\users_controller.rb

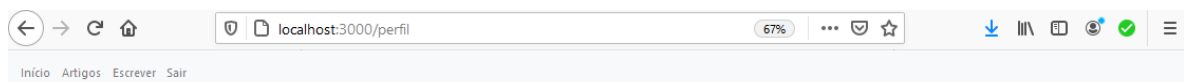
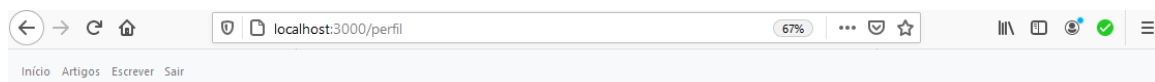
```
class UsersController < ApplicationController
  before_action :authenticate_user!

  def edit
  end

  def update
    current_user.update(user_params)
    redirect_back(fallback_location: root_path)
  end

  def user_params
    params.require(:user).permit(:avatar)
  end
end
```

end



8.2 Mostrar arquivo subido

app\views\users\edit.html.erb

```
<div class="small-container center-block">
  <p class="font-weight-bold text-uppercase margin-top">
    Editar usuário
  </p>

  <% if current_user.avatar.attached? %>
    <%= image_tag url_for(current_user.avatar), height:200 %>
  <% end %>

  <%= form_with(model: current_user, local: true) do |form| %>
    <div class="field">
      <%= form.label :avatar %>
      <%= form.file_field :avatar %>
    </div>
    <div class="field">
      <%= form.submit "Gravar", class: "btn btn-primary" %>
    </div>
  <% end %>

</div>
```

