

# Curso de Ruby on Rails - aulas 31 a 40

## Jackson Pires

<https://www.youtube.com/watch?v=ZHPondVB9RQ&list=PLe3LRfCs4go-mkvHRMSXEOG-HDbzesyaP>

Resumo do curso feito por Roberto Pinheiro

### **AULA 31 - NITROUS.IO**

É uma plataforma onde se pode desenvolver uma aplicação Ruby on Rails toda na Web.

**Nitrous.IO foi descontinuado.**

## AULA 32 - SELF E MONKEY PATCH EM RUBY

### SELF

**Self** é uma palavra reservada que dá acesso ao **objeto corrente**.

Assim podemos dizer que ao usar **obj.meth**, estamos enviando o **meth** ao **obj**.

### Gemfile

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

ruby '2.5.1'

gem 'pry', '~> 0.11.3'
gem 'rb-readline', '~> 0.5.3'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.3'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'duktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# 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 ActiveRecord has_secure_password
gem 'bcrypt', '~> 3.1.7'

# Use ActiveSupport variant
gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
gem 'capistrano-rails', group: :development
```

```

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

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 chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

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

```

```

[1] pry(main)> puts self
main
INFORMAÇÕES: não foi possível localizar arquivos para o(s) padrão(ões) especificado(s).
=> nil
[2] pry(main)> class Teste
[2] pry(main)*   def ola
[2] pry(main)*     puts "Ola #{self}"
[2] pry(main)*   end
[2] pry(main)* end
=> :ola
[3] pry(main)> x = Teste.new
=> #<Teste:0x00000000003d72780>
[4] pry(main)> x.ola
Ola #<Teste:0x00000000003d72780>
=> nil
[5] pry(main)> puts x
#<Teste:0x00000000003d72780>
=> nil
[6] pry(main)> puts self
main
=> nil

```

## MONKEY PATCH

É quando se altera em tempo de execução uma classe.

```
[1] pry(main)> 1.class
INFORMAÇÕES: não foi possível localizar arquivos para o(s) padrão(ões) especificado(s).
=> Integer
[2] pry(main)> "oi".class
=> String
```

Para, por exemplo, abrir a classe String, basta redeclará-la

```
[3] pry(main)> class String
[3] pry(main)*   def ola
[3] pry(main)*     puts "Ola..."
[3] pry(main)*   end
[3] pry(main)* end
=> :ola
[4] pry(main)> x = "oi"
=> "oi"
[5] pry(main)> x.ola
Ola...
=> nil
```

O self de uma string é a própria string.

## Sobrescrevendo o método existente dentro da classe String

```
[6] pry(main)> class String
[6] pry(main)*   def ola
[6] pry(main)*     puts "Ola #{self}"
[6] pry(main)*   end
[6] pry(main)* end
=> :ola
[7] pry(main)> x = "Jackson"
=> "Jackson"
[8] pry(main)> x.ola
Ola Jackson
=> nil
[9] pry(main)> "Roberto".ola
Ola Roberto
=> nil
```

Outra forma de abrir uma classe é usar **class\_eval**:

```
[11] pry(main)> String.class_eval do
[11] pry(main)*   def ola
[11] pry(main)*     puts "Ola #{self} - Seja bem-vindo!"
[11] pry(main)*   end
[11] pry(main)* end
=> :ola
[12] pry(main)> x.ola
Ola Jackson - Seja bem-vindo!
=> nil
```

```
[13] pry(main)> "Roberto".ola
Ola Roberto - Seja bem-vindo!
=> nil
```

class\_eval funciona apenas se a classe já existir.

## AULA 33 - MÉTODOS DE INSTÂNCIA X MÉTODOS DE CLASSE

### MÉTODOS DE INSTÂNCIA

São métodos que são criados dentro de uma classe e ficam disponíveis para os objetos daquela classe.

```
[1] pry(main)> class Teste
[1] pry(main)*   def oi
[1] pry(main)*     puts "oi"
[1] pry(main)*   end
[1] pry(main)* end
INFORMAÇÕES: não foi possível localizar arquivos para o(s) padrão(ões) especificado(s).
=> :oi
[2] pry(main)> x = Teste.new
=> #<Teste:0x0000000002ccbd8>
[3] pry(main)> x.oi
oi
=> nil
```

```
[4] pry(main)> Teste.class_eval do
[4] pry(main)*   def ola
[4] pry(main)*     puts "Ola..."
[4] pry(main)*   end
[4] pry(main)* end
=> :ola
[5] pry(main)> x.oi
oi
=> nil
[6] pry(main)> x.ola
Ola...
=> nil
```

### MÉTODOS DE CLASSE

São métodos estáticos acessados diretamente na classe sem precisar instanciar a classe.

```
[8] pry(main)> class Teste
[8] pry(main)*   def self.welcome
[8] pry(main)*     puts "Seja bem-vindo!"
[8] pry(main)*   end
[8] pry(main)* end
=> :welcome
[9] pry(main)> Teste.welcome
Seja bem-vindo!
=> nil
```

## instance\_eval

É declarar métodos específicos para uma determinada instância (objeto).

```
[12] pry(main)> y = Teste.new
=> #<Teste:0x000000000035c1fe0>
[13] pry(main)> y.instance_eval do
[13] pry(main)*   def hello
[13] pry(main)*     puts "Ola mundo!"
[13] pry(main)*   end
[13] pry(main)* end
=> :hello
[14] pry(main)> y.hello
Ola mundo!
=> nil
[15] pry(main)> x.hello
NoMethodError: undefined method `hello' for #<Teste:0x00000000002ccbd8>
from (pry):35:in `__pry__'
[16] pry(main)> 
```

## AULA 34 - SINGLETON PATTERN VS SINGLETON CLASS

### SINGLETON PATTERN

Singleton é um padrão de projeto de software (do inglês Design Pattern). Este padrão garante a existência de apenas uma instância de uma classe, mantendo um ponto global de acesso ao seu objeto.

```
[16] pry(main)> require 'singleton'
=> true
[17] pry(main)>
[18] pry(main)> class Foobar
[18] pry(main)*   include Singleton
[18] pry(main)*   def teste
[18] pry(main)*     puts "Testando..."
[18] pry(main)*   end
[18] pry(main)* end
=> :teste
[19] pry(main)> x = Foobar.new
NoMethodError: private method `new' called for Foobar:Class
from (pry):43:in `__pry__'
[20] pry(main)> Foobar.instance.teste
Testando...
=> nil
```

### SINGLETON CLASS

class << object

```
[1] pry(main)> class Teste
[1] pry(main)*   def oi
[1] pry(main)*     puts "oi..."
[1] pry(main)*   end
[1] pry(main)* end
INFORMAÇÕES: não foi possível localizar arquivos para o(s) padrão(ões) especificado(s).
=> :oi
[2] pry(main)> x = Teste.new
=> #<Teste:0x0000000003e2f4c0>
[3] pry(main)> y = Teste.new
=> #<Teste:0x0000000003cf5848>
[4] pry(main)> x.oi
oi...
=> nil
[5] pry(main)> y.oi
oi...
=> nil
```



```
[6] pry(main)> class << y
[6] pry(main)*   def ola
[6] pry(main)*     puts "ola..."
[6] pry(main)*   end
[6] pry(main)* end
=> :ola
[7] pry(main)> x.ola
NoMethodError: undefined method `ola' for #<Teste:0x0000000003e2f4c0>
from (pry):15:in `__pry__'
[8] pry(main)> y.ola
ola...
=> nil
```

## AULA 35 - PARÊNTESES, COLCHETES E CHAVES NO RUBY

### PARÊNTESES

No Ruby é opcional.

```
[14] pry(main)> class Teste
[14] pry(main)*   def ola(nome)
[14] pry(main)*     puts "Ola #{nome}"
[14] pry(main)*   end
[14] pry(main)* end
=> :ola
[15] pry(main)> x.ola
ArgumentError: wrong number of arguments (given 0, expected 1)
from (pry):27:in `ola'
[16] pry(main)> x.ola("Jackson")
Ola Jackson
=> nil
[17] pry(main)> x.ola "Jackson"
Ola Jackson
=> nil
```

```
[19] pry(main)> class Teste
[19] pry(main)*   def oi nome
[19] pry(main)*     puts "Oi #{nome}"
[19] pry(main)*   end
[19] pry(main)* end
=> :oi
[20] pry(main)> x.oi
ArgumentError: wrong number of arguments (given 0, expected 1)
from (pry):36:in `oi'
[21] pry(main)> x.oi("Roberto")
Oi Roberto
=> nil
[22] pry(main)> x.oi "Roberto"
Oi Roberto
=> nil
```

### GUIA DE BOAS PRÁTICAS DO RUBY

<https://github.com/rubensmabueno/ruby-style-guide/blob/master/README-PT-BR.md>

## COLCHETES

Basicamente são utilizados com arrays ou posicionamento de arrays.

```
[24] pry(main)> frutas = ["laranja", "abacaxi", "pera", "uva"]
=> ["laranja", "abacaxi", "pera", "uva"]
[25] pry(main)> frutas.class
=> Array
[26] pry(main)> frutas[2]
=> "pera"
```

```
[27] pry(main)> nome = "Roberto"
=> "Roberto"
[28] pry(main)> nome[4]
=> "r"
```

## CHAVES

São utilizadas com hash e blocos de código.

```
[38] pry(main)> aluno = {:nome => "Roberto", :idade => 58, :altura => 1.78}
=> {:nome=>"Roberto", :idade=>58, :altura=>1.78}
[39] pry(main)> aluno.class
=> Hash
[40] pry(main)> aluno[:altura]
=> 1.78
```

```
[4] pry(main)> Teste.class_eval {
[4] pry(main)*   def hello
[4] pry(main)*     puts "Ola mundo!"
[4] pry(main)*   end
[4] pry(main)* }
=> :hello
```

## AULA 36 - CRIANDO UM FORMULÁRIO DE PESQUISA

rails g scaffold Customer name:string email:string

```
C:\Sites\ror-jp-p3>rails g scaffold Customer name:string email:string
  invoke  active_record
  create  db/migrate/20191025112054_create_customers.rb
  create  app/models/customer.rb
  invoke  test_unit
  create  test/models/customer_test.rb
  create  test/fixtures/customers.yml
  invoke  resource_route
   route  resources :customers
  invoke  scaffold_controller
  create  app/controllers/customers_controller.rb
  invoke  erb
  create  app/views/customers
  create  app/views/customers/index.html.erb
  create  app/views/customers/edit.html.erb
  create  app/views/customers/show.html.erb
  create  app/views/customers/new.html.erb
  create  app/views/customers/_form.html.erb
  invoke  test_unit
  create  test/controllers/customers_controller_test.rb
  create  test/system/customers_test.rb
  invoke  helper
  create  app/helpers/customers_helper.rb
  invoke  test_unit
  invoke  jbuilder
  create  app/views/customers/index.json.jbuilder
  create  app/views/customers/show.json.jbuilder
  create  app/views/customers/_customer.json.jbuilder
  invoke  assets
  invoke  coffee
  create  app/assets/javascripts/customers.coffee
  invoke  scss
  create  app/assets/stylesheets/customers.scss
  invoke  scss
  create  app/assets/stylesheets/scaffolds.scss
```

rake db:create

```
C:\Sites\ror-jp-p3>rake db:create
Created database 'ror-jp-p3_development'
Created database 'ror-jp-p3_test'
```

rake db:migrate

```
C:\Sites\ror-jp-p3>rake db:migrate
== 20191025112054 CreateCustomers: migrating =====
-- create_table(:customers)
   -> 0.5789s
== 20191025112054 CreateCustomers: migrated (0.5809s) =====
```

## Gemfile

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

ruby '2.5.1'

# Faker
gem 'faker'
gem 'pry', '~> 0.11.3'
gem 'rb-readline', '~> 0.5.3'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.3'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'duktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# 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 ActiveSupport has_secure_password
# gem 'bcrypt', '~> 3.1.7'

# Use ActiveSupport variant
# gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

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 chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

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

### **db/seeds.rb**

```
50.times do |i|
  customer_name = Faker::Name.name
  customer_email = Faker::Internet.email
  customer = "#{customer_name} - #{customer_email}"
  puts "Cadastrando #{customer}"
  Customer.create(name: customer_name, email: customer_email)
end
```

**rake db:seeds**

## app/controllers/customers\_controller.rb

```
class CustomersController < ApplicationController
  before_action :set_customer, only: [:show, :edit, :update, :destroy]

  # GET /customers
  # GET /customers.json
  def index
    if params[:search]
      @customers = Customer.where("name like ?", "%#{params[:search]}%")
    else
      @customers = Customer.all
    end
  end

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

  # GET /customers/new
  def new
    @customer = Customer.new
  end

  # GET /customers/1/edit
  def edit
  end

  # POST /customers
  # POST /customers.json
  def create
    @customer = Customer.new(customer_params)

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

  # PATCH/PUT /customers/1
  # PATCH/PUT /customers/1.json
  def update
    respond_to do |format|
      if @customer.update(customer_params)
        format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
        format.json { render :show, status: :ok, location: @customer }
      else
        format.html { render :edit }
        format.json { render json: @customer.errors, status: :unprocessable_entity }
      end
    end
  end
end
```

```
    format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
    format.json { render :show, status: :ok, location: @customer }
  else
    format.html { render :edit }
    format.json { render json: @customer.errors, status: :unprocessable_entity }
  end
end
end

# DELETE /customers/1
# DELETE /customers/1.json
def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email)
end
end
```



## app/views/customers/index.html.erb

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

```
<%= form_tag(customers_path, :method => :get) do %>
  <%= text_field_tag 'search', nil, placeholder: 'Enter search term...' %>
  <%= submit_tag "Search" %>
<% end %>
```

```
<h1>Customers</h1>
```

```
<table>
```

```
  <thead>
```

```
    <tr>
```

```
      <th>Name</th>
```

```
      <th>Email</th>
```

```
      <th colspan="3"></th>
```

```
    </tr>
```

```
  </thead>
```

```
  <tbody>
```

```
    <% @customers.each do |customer| %>
```

```
      <tr>
```

```
        <td><%= customer.name %></td>
```

```
        <td><%= customer.email %></td>
```

```
        <td><%= link_to 'Show', customer %></td>
```

```
        <td><%= link_to 'Edit', edit_customer_path(customer) %></td>
```

```
        <td><%= link_to 'Destroy', customer, method: :delete, data: { confirm: 'Are you sure?' } %></td>
```

```
      </tr>
```

```
    <% end %>
```

```
  </tbody>
```

```
</table>
```

```
<br>
```

```
<%= link_to 'New Customer', new_customer_path %>
```

Enter search term...

Search

# Customers

Name	Email	
Mariana Banheira	osvaldo_abshire@collins.biz	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Djalma Vidal	dominic@stiedemannolson.name	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Ofélia Moreno	amos@wisokycrona.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Eduardo Dorneles	hilton.windler@johns.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Heitor Vasques	desirae.emard@mcclure.name	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Dra. Ana Júlia Cabreira	jeane_cremin@schulistrenner.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Luiz Gustavo Viveiros	jerold@monahan.info	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Carla do Prado	brett@kozey.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Helena Teles	rickie@tillman.biz	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Sílvia Albuquerque	jung_satterfield@zemlak.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Marcelo Datena Filho	kathe@marvinjast.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Davi Luiz Macedo Jr.	ora@lynch.org	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Félix da Mota	damian.volkman@keeblerdickinson.io	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Núbia Alves Filho	lon_schmeler@bode.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Nathan da Cunha	rona@hodkiewiczjerde.info	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Matheus Banheira	abram@kertzmann.info	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Dra. Vicente Espinhosa	kieth@dickinson.co	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Luna Teles	dougla.howe@swiftcasper.info	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Gael de Sá	sydney@price.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Thomas Lobos	christia@ziemann.info	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

Enter search term...

Search

# Customers

Name	Email	
Djalma Vidal	dominic@stiedemannolson.name	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Célia Vidal	jeika@mohr.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Customer](#)

## Criando a pesquisa como um método de classe

### app/models/customer.rb

```
class Customer < ApplicationRecord
  def self.search(query)
    where("name like ?", "%#{query}%")
  end
end
```

### app/controllers/customers\_controller.rb

```
class CustomersController < ApplicationController
  before_action :set_customer, only: [:show, :edit, :update, :destroy]

  # GET /customers
  # GET /customers.json
  def index
    if params[:search]
      @customers = Customer.search(params[:search])
    else
      @customers = Customer.all
    end
  end

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

  # GET /customers/new
  def new
    @customer = Customer.new
  end

  # GET /customers/1/edit
  def edit
  end

  # POST /customers
  # POST /customers.json
  def create
    @customer = Customer.new(customer_params)
  end
end
```

```

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

# PATCH/PUT /customers/1
# PATCH/PUT /customers/1.json
def update
  respond_to do |format|
    if @customer.update(customer_params)
      format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
      format.json { render :show, status: :ok, location: @customer }
    else
      format.html { render :edit }
      format.json { render json: @customer.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /customers/1
# DELETE /customers/1.json
def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email)
end
end

```

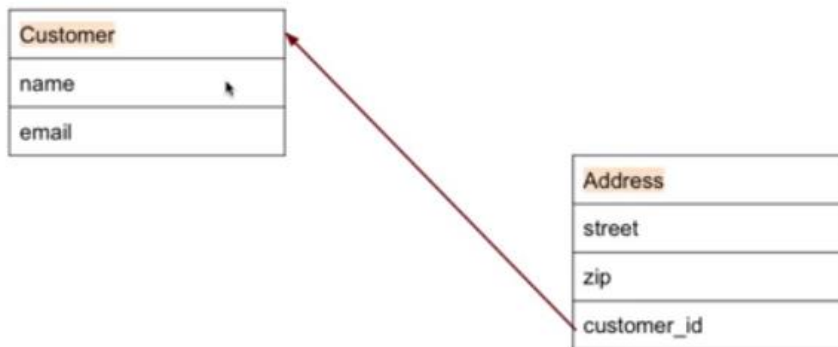
## Usando scopes

Scopes permite encadeamento de métodos.

**app/models/customer.rb**

```
class Customer < ApplicationRecord
  scope :search, -> (query) {where("name like ?", "%#{query}%")}
end
```

## AULA 37 - FORMULÁRIOS COMPLEXOS / NESTED ATTRIBUTES



`rails g scaffold Address street:string zip:string customer:references`

`rake db:migrate`

`app/models/customer.rb`

```
class Customer < ApplicationRecord
  has_one :address
  scope :search, -> (query) {where("name like ?", "%#{query}%")}
end
```

```
irb(main):009:0> customer = Customer.new(name: "Adalberto", email: "adalberto@hotmail.com")
=> #<Customer id: nil, name: "Adalberto", email: "adalberto@hotmail.com", created_at: nil, updated_at: nil>
irb(main):010:0> customer.build_address(street: "Rua dos Andradas, 58", zip: "03118-001")
=> #<Address id: nil, street: "Rua dos Andradas, 58", zip: "03118-001", customer_id: nil, created_at: nil, updated_at: nil>
irb(main):011:0> customer.save
(0.4ms) BEGIN
Customer Create (0.6ms) INSERT INTO `customers` (`name`, `email`, `created_at`, `updated_at`) VALUES ('Adalberto', 'adalberto@hotmail.com', '2019-10-25 19:09:07', '2019-10-25 19:09:07')
(0.4ms) BEGIN
Customer Create (0.6ms) INSERT INTO `customers` (`name`, `email`, `created_at`, `updated_at`) VALUES ('Adalberto', 'adalberto@hotmail.com', '2019-10-25 19:09:07', '2019-10-25 19:09:07')
Address Create (0.6ms) INSERT INTO `addresses` (`street`, `zip`, `customer_id`, `created_at`, `updated_at`) VALUES ('Rua dos Andradas, 58', '03118-001', 53, '2019-10-25 19:09:07', '2019-10-25 19:09:07')
(109.9ms) COMMIT
=> true
```

<https://api.rubyonrails.org/classes/ActiveRecord/NestedAttributes/ClassMethods.html>

`accepts_nested_attributes_for`

`fields_for`

## app/models/customer.rb

```
class Customer < ApplicationRecord
  has_one :address
  accepts_nested_attributes_for :address
  scope :search, -> (query) {where("name like ?", "%#{query}%")}
end
```

## app/controllers/customers\_controller.rb

```
class CustomersController < ApplicationController
  before_action :set_customer, only: [:show, :edit, :update, :destroy]

  # GET /customers
  # GET /customers.json
  def index

    if params[:search]
      # @customers = Customer.where("name like ?", "%#{params[:search]}%")
      @customers = Customer.search(params[:search])
    else
      @customers = Customer.all
    end
  end

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

  # GET /customers/new
  def new
    @customer = Customer.new
    @customer.build_address
  end

  # GET /customers/1/edit
  def edit
  end

  # POST /customers
  # POST /customers.json
  def create
    @customer = Customer.new(customer_params)

    respond_to do |format|
```

```

    if @customer.save
      format.html { redirect_to @customer, notice: 'Customer was successfully created.' }
      format.json { render :show, status: :created, location: @customer }
    else
      format.html { render :new }
      format.json { render json: @customer.errors, status: :unprocessable_entity }
    end
  end
end

# PATCH/PUT /customers/1
# PATCH/PUT /customers/1.json
def update
  respond_to do |format|
    if @customer.update(customer_params)
      format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
      format.json { render :show, status: :ok, location: @customer }
    else
      format.html { render :edit }
      format.json { render json: @customer.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /customers/1
# DELETE /customers/1.json
def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email, :address_attributes => [:street, :zip])
end
end

```



## app/views/customers/\_form.html.erb

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

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

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

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

  <%= form.fields_for :address do |ff| %>
    <div class="field">
      <%= ff.label :street %>
      <%= ff.text_field :street %>
    </div>
    <div class="field">
      <%= ff.label :zip %>
      <%= ff.text_field :zip %>
    </div>
  <% end %>

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

## app/views/customers/show.html.erb

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

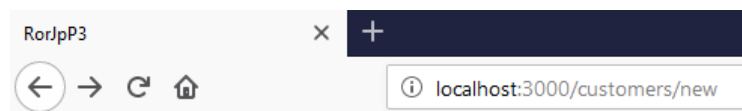
<p>
  <strong>Name:</strong>
  <%= @customer.name %>
</p>

<p>
  <strong>Email:</strong>
  <%= @customer.email %>
</p>

<p>
  <strong>Street:</strong>
  <%= @customer.address.street %>
</p>

<p>
  <strong>Zip</strong>
  <%= @customer.address.zip %>
</p>

<%= link_to 'Edit', edit_customer_path(@customer) %> |
<%= link_to 'Back', customers_path %>
```



## New Customer

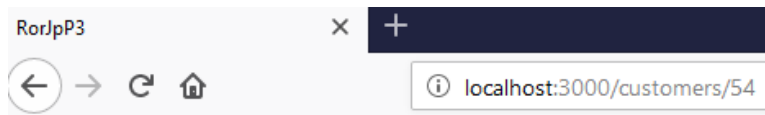
Name

Email

Street

Zip

[Back](#)



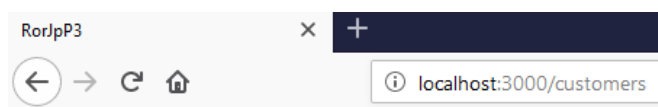
**Name:** Marina

**Email:** marina@gmail.com

**Street:** Rua Alvorada, 157

**Zip** 04672-021

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



Enter search term...

## Customers

Name	Email	
Adalberto	adalberto@hotmail.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Marina	marina@gmail.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Customer](#)

### app/views/addresses/index.html.erb

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

```
<h1>Addresses</h1>
```

```
<table>
```

```
<thead>
```

```
<tr>
```

```
<th>Street</th>
```

```
<th>Zip</th>
```

```
<th>Customer</th>
```

```
<th colspan="3"></th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<% @addresses.each do |address| %>
```

```
<tr>
```

```
<td><%= address.street %></td>
```

```
<td><%= address.zip %></td>
```

```
<td><%= address.customer.name %></td>
```

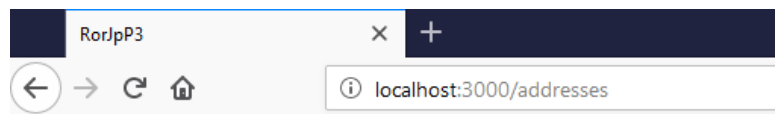
```

<td><%= link_to 'Show', address %></td>
<td><%= link_to 'Edit', edit_address_path(address) %></td>
<td><%= link_to 'Destroy', address, method: :delete, data: { confirm: 'Are you sure?' } %></td>
</tr>
<% end %>
</tbody>
</table>

<br>

<%= link_to 'New Address', new_address_path %>

```

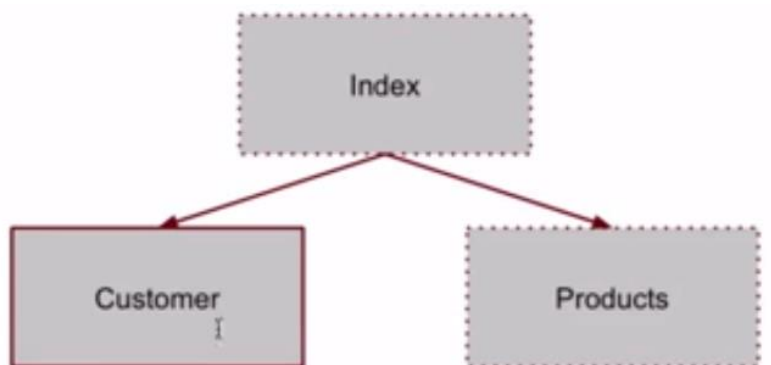


## Addresses

Street	Zip	Customer	
Rua dos Andradas, 58	03118-001	Adalberto	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Rua Alvorada, 157	04672-021	Marina	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Address](#)

## AULA 38 - AUTENTICAÇÃO DE USUÁRIOS COM DEVISE



`rails generate scaffold Product description:string quantity:integer`

`rails g controller Welcome index`

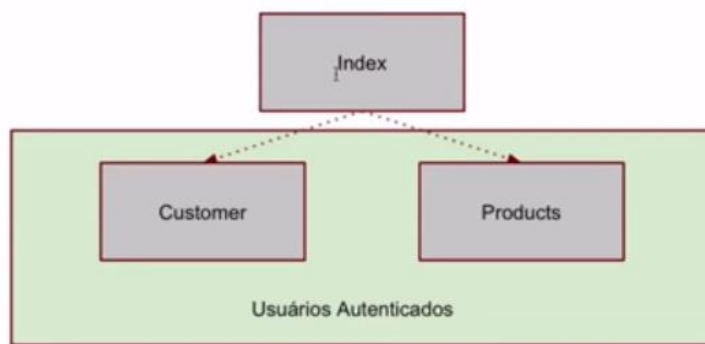
`rake db:migrate`

**config/routes.rb**

```
Rails.application.routes.draw do
  get 'welcome/index'
  root 'welcome#index'
  resources :products
  resources :addresses
  resources :customers
end
```

**app/views/welcome/index.html.erb**

```
<h1>Página Principal</h1>
<ul>
  <li><%= link_to "Clientes", customers_path %></li>
  <li><%= link_to "Produtos", products_path %></li>
</ul>
```



## Gemfile

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

ruby '2.5.1'

# Devise
gem 'devise'
# Faker
gem 'faker'
gem 'pry', '~> 0.11.3'
gem 'rb-readline', '~> 0.5.3'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.3'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'duktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# 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 ActiveRecord has_secure_password
gem 'bcrypt', '~> 3.1.7'

# Use ActiveStorage variant
```

```
# gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

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 chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

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

**bundle install**

## rails generate devise:install

```
C:\Sites\nor-jp-p3>rails generate devise:install
  create  config/initializers/devise.rb
  create  config/locales/devise.en.yml
=====

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

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

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

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

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

   root to: "home#index"

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

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

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

   rails g devise:views
=====
```



## TRADUZINDO MENSAGENS DO DEVISE

<https://gist.github.com/mateusg/924555>

### config/locales/devise.pt-BR.yml

```
# encoding: UTF-8
# pt-BR translations for Devise
pt-BR:
  devise:
    confirmations:
      confirmed: "Sua conta foi confirmada com sucesso. Você está logado."
      send_instructions: "Dentro de minutos, você receberá um e-mail com instruções para a confirmação da sua conta."
      send_paranoid_instructions: "Se o seu endereço de e-mail estiver cadastrado, você receberá uma mensagem com instruções para confirmação da sua conta."
    failure:
      already_authenticated: "Você já está logado."
      inactive: "Sua conta ainda não foi ativada."
      invalid: "%{authentication_keys} ou senha inválida."
      locked: "Sua conta está bloqueada."
      last_attempt: "Você tem mais uma tentativa antes de bloquear sua conta."
      not_found_in_database: "%{authentication_keys} ou senha inválida."
      timeout: "Sua sessão expirou, por favor, efetue login novamente para continuar."
      unauthenticated: "Para continuar, efetue login ou registre-se."
      unconfirmed: "Antes de continuar, confirme a sua conta."
    mailer:
      confirmation_instructions:
        subject: "Instruções de confirmação"
      reset_password_instructions:
        subject: "Instruções de troca de senha"
      unlock_instructions:
        subject: "Instruções de desbloqueio"
    omniauth_callbacks:
      failure: "Não foi possível autenticá-lo como %{kind} porque %{reason}."
      success: "Autenticado com sucesso com uma conta de %{kind}."
    passwords:
      no_token: "Você só pode acessar essa página através de um e-mail de troca de senha. Se já estiver acessando por um e-mail, verifique se a URL fornecida está completa."
      send_instructions: "Dentro de minutos, você receberá um e-mail com instruções para a troca da sua senha."
      send_paranoid_instructions: "Se o seu endereço de e-mail estiver cadastrado, você receberá um link de recuperação da senha via e-mail."
      updated: "Sua senha foi alterada com sucesso. Você está logado."
      updated_not_active: "Sua senha foi alterada com sucesso."
    registrations:
      destroyed: "Sua conta foi cancelada com sucesso. Esperamos vê-lo novamente em breve."
      signed_up: "Login efetuado com sucesso. Se não foi autorizado, a confirmação será enviada por e-mail."
      signed_up_but_inactive: "Você foi cadastrado com sucesso. No entanto, não foi possível efetuar login, pois sua conta não foi ativada."
      signed_up_but_locked: "Você foi cadastrado com sucesso. No entanto, não foi possível efetuar login, pois sua conta está bloqueada."
```

signed\_up\_but\_unconfirmed: "Uma mensagem com um link de confirmação foi enviada para o seu endereço de e-mail. Por favor, abra o link para confirmar a sua conta."

update\_needs\_confirmation: "Você atualizou a sua conta com sucesso, mas o seu novo endereço de e-mail precisa ser confirmado. Por favor, acesse-o e clique no link de confirmação que enviamos."

updated: "Sua conta foi atualizada com sucesso."

sessions:

signed\_in: "Login efetuado com sucesso!"

signed\_out: "Saiu com sucesso."

already\_signed\_out: "Saiu com sucesso."

unlocks:

send\_instructions: "Dentro de minutos, você receberá um email com instruções para o desbloqueio da sua conta."

send\_paranoid\_instructions: "Se sua conta existir, você receberá um e-mail com instruções para desbloqueá-la em alguns minutos."

unlocked: "Sua conta foi desbloqueada com sucesso. Efetue login para continuar."

errors:

messages:

already\_confirmed: "já foi confirmado"

confirmation\_period\_expired: "precisa ser confirmada em até %{period}, por favor, solicite uma nova"

expired: "expirou, por favor, solicite uma nova"

not\_found: "não encontrado"

not\_locked: "não foi bloqueado"

not\_saved:

one: "Não foi possível salvar %{resource}: 1 erro"

other: "Não foi possível salvar %{resource}: %{count} erros."

## ADICIONANDO O DEVISE AO MODEL

rails generate devise User

```
C:\Sites\ror-jp-p3>rails generate devise User
  invoke  active_record
  create   db/migrate/20191025235958_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
```

### db/migrate/20191025235958\_devise\_create\_users.rb

```
# frozen_string_literal: true

class DeviseCreateUsers < ActiveRecord::Migration[5.2]
  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

      ## 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

```

### 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

```

### rake db:migrate

```

C:\Sites\ror-jp-p3>rake db:migrate
== 20191025235958 DeviseCreateUsers: migrating =====
-- create_table(:users)
   -> 0.3867s
-- add_index(:users, :email, {:unique=>true})
   -> 0.6842s
-- add_index(:users, :reset_password_token, {:unique=>true})
   -> 0.1906s
== 20191025235958 DeviseCreateUsers: migrated (1.2637s) =====

```

## Ajustar os ambientes para envio de email

```
config.action_mailer.default_url_options = {  
  host: 'localhost', port: 3000  
}
```

### config/environments/development.rb

```
Rails.application.configure do  
  # Settings specified here will take precedence over those in config/application.rb.  
  
  # Devise  
  config.action_mailer.default_url_options = { host: 'localhost', port: 3000 }  
  
  # In the development environment your application's code is reloaded on  
  # every request. This slows down response time but is perfect for development  
  # since you don't have to restart the web server when you make code changes.  
  config.cache_classes = false  
  
  # Do not eager load code on boot.  
  config.eager_load = false  
  
  # Show full error reports.  
  config.consider_all_requests_local = true  
  
  # Enable/disable caching. By default caching is disabled.  
  # Run rails dev:cache to toggle caching.  
  if Rails.root.join('tmp', 'cache-dev.txt').exist?  
    config.action_controller.perform_caching = true  
  
    config.cache_store = :memory_store  
    config.public_file_server.headers = {  
      'Cache-Control' => "public, max-age=#{2.days.to_i}"  
    }  
  else  
    config.action_controller.perform_caching = false  
  
    config.cache_store = :null_store  
  end  
  
  # Store uploaded files on the local file system (see config/storage.yml for options)  
  config.active_storage.service = :local  
  
  # Don't care if the mailer can't send.  
  config.action_mailer.raise_delivery_errors = false  
  
  config.action_mailer.perform_caching = false  
  
  # Print deprecation notices to the Rails logger.  
  config.active_support.deprecation = :log
```

```
# Raise an error on page load if there are pending migrations.
config.active_record.migration_error = :page_load

# Highlight code that triggered database queries in logs.
config.active_record.verbose_query_logs = true

# Debug mode disables concatenation and preprocessing of assets.
# This option may cause significant delays in view rendering with a large
# number of complex assets.
config.assets.debug = true

# Suppress logger output for asset requests.
config.assets.quiet = true

# Raises error for missing translations
# config.action_view.raise_on_missing_translations = true

# Use an evented file watcher to asynchronously detect changes in source code,
# routes, locales, etc. This feature depends on the listen gem.
# config.file_watcher = ActiveSupport::EventedFileUpdateChecker
end
```

## Adicionar filtros nos controllers que deseja autenticação

```
before_action :authenticate_user!
```

### app/controllers/customers\_controller.rb

```
class CustomersController < ApplicationController
  before_action :set_customer, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /customers
  # GET /customers.json
  def index

    if params[:search]
      # @customers = Customer.where("name like ?", "%#{params[:search]}%")
      @customers = Customer.search(params[:search])
    else
      @customers = Customer.all
    end
  end

  # GET /customers/1
```

```
# GET /customers/1.json
def show
end

# GET /customers/new
def new
  @customer = Customer.new
  @customer.build_address
end

# GET /customers/1/edit
def edit
end

# POST /customers
# POST /customers.json
def create
  @customer = Customer.new(customer_params)

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

# PATCH/PUT /customers/1
# PATCH/PUT /customers/1.json
def update
  respond_to do |format|
    if @customer.update(customer_params)
      format.html { redirect_to @customer, notice: 'Customer was successfully updated.' }
      format.json { render :show, status: :ok, location: @customer }
    else
      format.html { render :edit }
      format.json { render json: @customer.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /customers/1
# DELETE /customers/1.json
def destroy
  @customer.destroy
  respond_to do |format|
    format.html { redirect_to customers_url, notice: 'Customer was successfully destroyed.' }
    format.json { head :no_content }
  end
end
```

```

end

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

# Never trust parameters from the scary internet, only allow the white list through.
def customer_params
  params.require(:customer).permit(:name, :email, :address_attributes => [:street, :zip])
end
end

```

### app/controllers/products\_controller.rb

```

class ProductsController < ApplicationController
  before_action :set_product, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /products
  # GET /products.json
  def index
    @products = Product.all
  end

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

  # GET /products/new
  def new
    @product = Product.new
  end

  # GET /products/1/edit
  def edit
  end

  # POST /products
  # POST /products.json
  def create
    @product = Product.new(product_params)

    respond_to do |format|
      if @product.save
        format.html { redirect_to @product, notice: 'Product was successfully created.' }

```



```

    format.json { render :show, status: :created, location: @product }
  else
    format.html { render :new }
    format.json { render json: @product.errors, status: :unprocessable_entity }
  end
end
end

# PATCH/PUT /products/1
# PATCH/PUT /products/1.json
def update
  respond_to do |format|
    if @product.update(product_params)
      format.html { redirect_to @product, notice: 'Product was successfully updated.' }
      format.json { render :show, status: :ok, location: @product }
    else
      format.html { render :edit }
      format.json { render json: @product.errors, status: :unprocessable_entity }
    end
  end
end

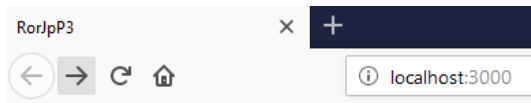
# DELETE /products/1
# DELETE /products/1.json
def destroy
  @product.destroy
  respond_to do |format|
    format.html { redirect_to products_url, notice: 'Product was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def product_params
  params.require(:product).permit(:description, :quantity)
end
end

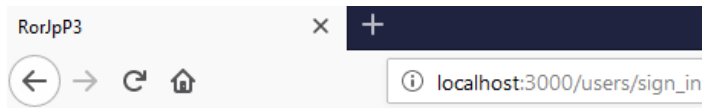
```

Tente acessar os cadastros envolvidos



## Página Principal

- [Clientes](#)
- [Produtos](#)



## Log in

Email

Password

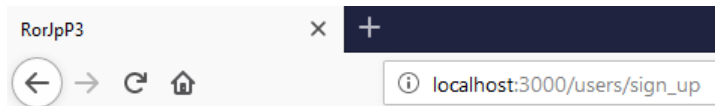
☐

Remember me

Log in

[Sign up](#)

[Forgot your password?](#)



## Sign up

Email

Password

(6 characters minimum)

Password confirmation

Sign up

[Log in](#)

Senha: 123456

RorlpP3 x +

localhost:3000/users/sign\_up

## Sign up

Email

Password  
(6 characters minimum)

Password confirmation

[Log in](#)

RorlpP3 x +

localhost:3000/customers

Login efetuado com sucesso. Se não foi autorizado, a confirmação será enviada por e-mail.

## Customers

Name	Email	
Adalberto	adalberto@hotmail.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Marina	marina@gmail.com	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Customer](#)

# Verifique as novas rotas

rake routes ou, no navegador: localhost:3000/rails/info/routes

Routes

← → ↺ 🏠

localhost:3000/rails/info/routes80%

Routes

Routes match in priority from top to bottom

Helper	HTTP Verb	Path	Controller#Action
Path / Uri		Path Match	
new_user_session_path	GET	/users/sign_in(.:format)	devise/sessions#new
user_session_path	POST	/users/sign_in(.:format)	devise/sessions#create
destroy_user_session_path	DELETE	/users/sign_out(.:format)	devise/sessions#destroy
new_user_password_path	GET	/users/password/new(.:format)	devise/passwords#new
edit_user_password_path	GET	/users/password/edit(.:format)	devise/passwords#edit
user_password_path	PATCH	/users/password(.:format)	devise/passwords#update
	PUT	/users/password(.:format)	devise/passwords#update
	POST	/users/password(.:format)	devise/passwords#create
cancel_user_registration_path	GET	/users/cancel(.:format)	devise/registrations#cancel
new_user_registration_path	GET	/users/sign_up(.:format)	devise/registrations#new
edit_user_registration_path	GET	/users/edit(.:format)	devise/registrations#edit
user_registration_path	PATCH	/users(.:format)	devise/registrations#update
	PUT	/users(.:format)	devise/registrations#update
	DELETE	/users(.:format)	devise/registrations#destroy
	POST	/users(.:format)	devise/registrations#create
welcome_index_path	GET	/welcome/index(.:format)	welcome#index
root_path	GET	/	welcome#index
products_path	GET	/products(.:format)	products#index
	POST	/products(.:format)	products#create
new_product_path	GET	/products/new(.:format)	products#new
edit_product_path	GET	/products/:id/edit(.:format)	products#edit
product_path	GET	/products/:id(.:format)	products#show
	PATCH	/products/:id(.:format)	products#update
	PUT	/products/:id(.:format)	products#update
	DELETE	/products/:id(.:format)	products#destroy
addresses_path	GET	/addresses(.:format)	addresses#index

	POST	/addresses(.:format)	addresses#create
new_address_path	GET	/addresses/new(.:format)	addresses#new
edit_address_path	GET	/addresses/:id/edit(.:format)	addresses#edit
address_path	GET	/addresses/:id(.:format)	addresses#show
	PATCH	/addresses/:id(.:format)	addresses#update
	PUT	/addresses/:id(.:format)	addresses#update
	DELETE	/addresses/:id(.:format)	addresses#destroy
customers_path	GET	/customers(.:format)	customers#index
	POST	/customers(.:format)	customers#create
new_customer_path	GET	/customers/new(.:format)	customers#new
edit_customer_path	GET	/customers/:id/edit(.:format)	customers#edit
customer_path	GET	/customers/:id(.:format)	customers#show
	PATCH	/customers/:id(.:format)	customers#update
	PUT	/customers/:id(.:format)	customers#update
	DELETE	/customers/:id(.:format)	customers#destroy
rails_service_blob_path	GET	/rails/active_storage/blobs/signed_id/*filename(.:format)	active_storage/blobs#show
rails_blob_representation_path	GET	/rails/active_storage/representations/signed_blob_id/variation_key/*filename(.:format)	active_storage/representations#show
rails_disk_service_path	GET	/rails/active_storage/disk/encoded_key/*filename(.:format)	active_storage/disk#show
update_rails_disk_service_path	PUT	/rails/active_storage/disk/encoded_token(.:format)	active_storage/disk#update
rails_direct_uploads_path	POST	/rails/active_storage/direct_uploads(.:format)	active_storage/direct_uploads#create

Para sair (deslogar):

destroy_user_session_path	DELETE	/users/sign_out(.:format)	devise/sessions#destroy
---------------------------	--------	---------------------------	-------------------------

## Crie os links para o cadastro de novos usuários

app/views/welcome/index.html.erb

```
<h1>Página Principal</h1>
```

```
<ul>
```

```
<li><%= link_to "Cadastro de novo usuário", new_user_registration_path %></li>
```

```
<li><%= link_to "Logar", new_user_session_path %></li>
```

```
<li><%= link_to "Sair", destroy_user_session_path, method: :delete %></li>
```

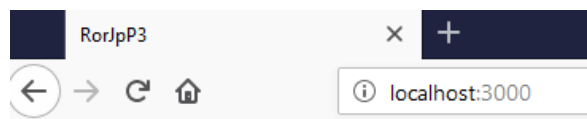
```
</ul>
```

```
<ul>
```

```
<li><%= link_to "Clientes", customers_path %></li>
```

```
<li><%= link_to "Produtos", products_path %></li>
```

```
</ul>
```



## Página Principal

- [Cadastro de novo usuário](#)
- [Logar](#)
- [Sair](#)
- [Clientes](#)
- [Produtos](#)

## Helpers

```
user_signed_in? / current_user
```

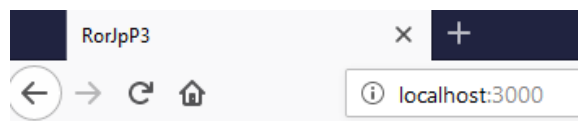
```
user_session
```

## app/views/welcome/index.html.erb

```
<h1>Página Principal</h1>

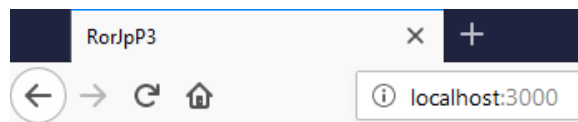
<% if user_signed_in? %>
  <ul>
    <li><%= current_user.email %></li>
    <li><%= link_to "Sair", destroy_user_session_path, method: :delete %></li>
  </ul>
<% else %>
  <ul>
    <li><%= link_to "Cadastro de novo usuário", new_user_registration_path %></li>
    <li><%= link_to "Logar", new_user_session_path %></li>
  </ul>
<% end %>

<ul>
  <li><%= link_to "Clientes", customers_path %></li>
  <li><%= link_to "Produtos", products_path %></li>
</ul>
```



## Página Principal

- admin@orion3.com.br
- [Sair](#)
- [Clientes](#)
- [Produtos](#)



## Página Principal

- [Cadastro de novo usuário](#)
- [Logar](#)
- [Clientes](#)
- [Produtos](#)

## CUSTOMIZANDO AS VIEWS

### Ative a opção de `scoped_views`

```
config/initializers/devise.rb  
  
config.scoped_views = true
```

#### `config/initializers/devise.rb`

```
# frozen_string_literal: true  
  
# Use this hook to configure devise mailer, warden hooks and so forth.  
# Many of these configuration options can be set straight in your model.  
Devise.setup do |config|  
  # The secret key used by Devise. Devise uses this key to generate  
  # random tokens. Changing this key will render invalid all existing  
  # confirmation, reset password and unlock tokens in the database.  
  # Devise will use the `secret_key_base` as its `secret_key`  
  # by default. You can change it below and use your own secret key.  
  # config.secret_key =  
'c058d9d14b6543788a7c4513045a34fa55910701086b2dc93d137ddfc4d4349ea209f2c63daf1c2895e  
b54396dd7719d639588d12a850a8f4f90cbf972d0a761'  
  
  # ==> Controller configuration  
  # Configure the parent class to the devise controllers.  
  # config.parent_controller = 'DeviseController'  
  
  # ==> Mailer Configuration  
  # Configure the e-mail address which will be shown in Devise::Mailer,  
  # note that it will be overwritten if you use your own mailer class  
  # with default "from" parameter.  
  config.mailer_sender = 'please-change-me-at-config-initializers-devise@example.com'  
  
  # Configure the class responsible to send e-mails.  
  # config.mailer = 'Devise::Mailer'  
  
  # Configure the parent class responsible to send e-mails.  
  # config.parent_mailer = 'ActionMailer::Base'  
  
  # ==> ORM configuration  
  # Load and configure the ORM. Supports :active_record (default) and  
  # :mongoid (bson_ext recommended) by default. Other ORMs may be  
  # available as additional gems.  
  require 'devise/orm/active_record'  
  
  # ==> Configuration for any authentication mechanism
```



```
# Configure which keys are used when authenticating a user. The default is
# just :email. You can configure it to use [:username, :subdomain], so for
# authenticating a user, both parameters are required. Remember that those
# parameters are used only when authenticating and not when retrieving from
# session. If you need permissions, you should implement that in a before filter.
# You can also supply a hash where the value is a boolean determining whether
# or not authentication should be aborted when the value is not present.
# config.authentication_keys = [:email]

# Configure parameters from the request object used for authentication. Each entry
# given should be a request method and it will automatically be passed to the
# find_for_authentication method and considered in your model lookup. For instance,
# if you set :request_keys to [:subdomain], :subdomain will be used on authentication.
# The same considerations mentioned for authentication_keys also apply to request_keys.
# config.request_keys = []

# Configure which authentication keys should be case-insensitive.
# These keys will be downcased upon creating or modifying a user and when used
# to authenticate or find a user. Default is :email.
config.case_insensitive_keys = [:email]

# Configure which authentication keys should have whitespace stripped.
# These keys will have whitespace before and after removed upon creating or
# modifying a user and when used to authenticate or find a user. Default is :email.
config.strip_whitespace_keys = [:email]

# Tell if authentication through request.params is enabled. True by default.
# It can be set to an array that will enable params authentication only for the
# given strategies, for example, `config.params_authenticatable = [:database]` will
# enable it only for database (email + password) authentication.
# config.params_authenticatable = true

# Tell if authentication through HTTP Auth is enabled. False by default.
# It can be set to an array that will enable http authentication only for the
# given strategies, for example, `config.http_authenticatable = [:database]` will
# enable it only for database authentication. The supported strategies are:
# :database    = Support basic authentication with authentication key + password
# config.http_authenticatable = false

# If 401 status code should be returned for AJAX requests. True by default.
# config.http_authenticatable_on_xhr = true

# The realm used in Http Basic Authentication. 'Application' by default.
# config.http_authentication_realm = 'Application'

# It will change confirmation, password recovery and other workflows
# to behave the same regardless if the e-mail provided was right or wrong.
# Does not affect registerable.
# config.paranoid = true

# By default Devise will store the user in session. You can skip storage for
# particular strategies by setting this option.
```

```

# Notice that if you are skipping storage for all authentication paths, you
# may want to disable generating routes to Devise's sessions controller by
# passing skip: :sessions to `devise_for` in your config/routes.rb
config.skip_session_storage = [:http_auth]

# By default, Devise cleans up the CSRF token on authentication to
# avoid CSRF token fixation attacks. This means that, when using AJAX
# requests for sign in and sign up, you need to get a new CSRF token
# from the server. You can disable this option at your own risk.
# config.clean_up_csrf_token_on_authentication = true

# When false, Devise will not attempt to reload routes on eager load.
# This can reduce the time taken to boot the app but if your application
# requires the Devise mappings to be loaded during boot time the application
# won't boot properly.
# config.reload_routes = true

# ==> Configuration for :database_authenticatable
# For bcrypt, this is the cost for hashing the password and defaults to 11. If
# using other algorithms, it sets how many times you want the password to be hashed.
#
# Limiting the stretches to just one in testing will increase the performance of
# your test suite dramatically. However, it is STRONGLY RECOMMENDED to not use
# a value less than 10 in other environments. Note that, for bcrypt (the default
# algorithm), the cost increases exponentially with the number of stretches (e.g.
# a value of 20 is already extremely slow: approx. 60 seconds for 1 calculation).
config.stretches = Rails.env.test? ? 1 : 11

# Set up a pepper to generate the hashed password.
# config.pepper =
'1013e3739d35769f618383d2fe954a506f68bdf0f629792cc53ffd5cd2974420fa19c559cf00c24d19b8b
840477d8a92e67366279d379d6c4cccd7d1d1292d0f'

# Send a notification to the original email when the user's email is changed.
# config.send_email_changed_notification = false

# Send a notification email when the user's password is changed.
# config.send_password_change_notification = false

# ==> Configuration for :confirmable
# A period that the user is allowed to access the website even without
# confirming their account. For instance, if set to 2.days, the user will be
# able to access the website for two days without confirming their account,
# access will be blocked just in the third day.
# You can also set it to nil, which will allow the user to access the website
# without confirming their account.
# Default is 0.days, meaning the user cannot access the website without
# confirming their account.
# config.allow_unconfirmed_access_for = 2.days

# A period that the user is allowed to confirm their account before their
# token becomes invalid. For example, if set to 3.days, the user can confirm

```

```
# their account within 3 days after the mail was sent, but on the fourth day
# their account can't be confirmed with the token any more.
# Default is nil, meaning there is no restriction on how long a user can take
# before confirming their account.
# config.confirm_within = 3.days

# If true, requires any email changes to be confirmed (exactly the same way as
# initial account confirmation) to be applied. Requires additional unconfirmed_email
# db field (see migrations). Until confirmed, new email is stored in
# unconfirmed_email column, and copied to email column on successful confirmation.
config.reconfirmable = true

# Defines which key will be used when confirming an account
# config.confirmation_keys = [:email]

# ==> Configuration for :rememberable
# The time the user will be remembered without asking for credentials again.
# config.remember_for = 2.weeks

# Invalidates all the remember me tokens when the user signs out.
config.expire_all_remember_me_on_sign_out = true

# If true, extends the user's remember period when remembered via cookie.
# config.extend_remember_period = false

# Options to be passed to the created cookie. For instance, you can set
# secure: true in order to force SSL only cookies.
# config.rememberable_options = {}

# ==> Configuration for :validatable
# Range for password length.
config.password_length = 6..128

# Email regex used to validate email formats. It simply asserts that
# one (and only one) @ exists in the given string. This is mainly
# to give user feedback and not to assert the e-mail validity.
config.email_regexp = /\A[^@\s]+@[^@\s]+\z/

# ==> Configuration for :timeoutable
# The time you want to timeout the user session without activity. After this
# time the user will be asked for credentials again. Default is 30 minutes.
# config.timeout_in = 30.minutes

# ==> Configuration for :lockable
# Defines which strategy will be used to lock an account.
# :failed_attempts = Locks an account after a number of failed attempts to sign in.
# :none           = No lock strategy. You should handle locking by yourself.
# config.lock_strategy = :failed_attempts

# Defines which key will be used when locking and unlocking an account
# config.unlock_keys = [:email]
```

```

# Defines which strategy will be used to unlock an account.
# :email = Sends an unlock link to the user email
# :time = Re-enables login after a certain amount of time (see :unlock_in below)
# :both = Enables both strategies
# :none = No unlock strategy. You should handle unlocking by yourself.
# config.unlock_strategy = :both

# Number of authentication tries before locking an account if lock_strategy
# is failed attempts.
# config.maximum_attempts = 20

# Time interval to unlock the account if :time is enabled as unlock_strategy.
# config.unlock_in = 1.hour

# Warn on the last attempt before the account is locked.
# config.last_attempt_warning = true

# ==> Configuration for :recoverable
#
# Defines which key will be used when recovering the password for an account
# config.reset_password_keys = [:email]

# Time interval you can reset your password with a reset password key.
# Don't put a too small interval or your users won't have the time to
# change their passwords.
config.reset_password_within = 6.hours

# When set to false, does not sign a user in automatically after their password is
# reset. Defaults to true, so a user is signed in automatically after a reset.
# config.sign_in_after_reset_password = true

# ==> Configuration for :encryptable
# Allow you to use another hashing or encryption algorithm besides bcrypt (default).
# You can use :sha1, :sha512 or algorithms from others authentication tools as
# :clearance_sha1, :authlogic_sha512 (then you should set stretches above to 20
# for default behavior) and :restful_authentication_sha1 (then you should set
# stretches to 10, and copy REST_AUTH_SITE_KEY to pepper).
#
# Require the `devise-encryptable` gem when using anything other than bcrypt
# config.encryptor = :sha512

# ==> Scopes configuration
# Turn scoped views on. Before rendering "sessions/new", it will first check for
# "users/sessions/new". It's turned off by default because it's slower if you
# are using only default views.
# config.scoped_views = false
config.scoped_views = true

# Configure the default scope given to Warden. By default it's the first
# devise role declared in your routes (usually :user).
# config.default_scope = :user

```

```

# Set this configuration to false if you want /users/sign_out to sign out
# only the current scope. By default, Devise signs out all scopes.
# config.sign_out_all_scopes = true

# ==> Navigation configuration
# Lists the formats that should be treated as navigational. Formats like
# :html, should redirect to the sign in page when the user does not have
# access, but formats like :xml or :json, should return 401.
#
# If you have any extra navigational formats, like :iphone or :mobile, you
# should add them to the navigational formats lists.
#
# The "*/" below is required to match Internet Explorer requests.
# config.navigational_formats = ['*/', :html]

# The default HTTP method used to sign out a resource. Default is :delete.
config.sign_out_via = :delete

# ==> OmniAuth
# Add a new OmniAuth provider. Check the wiki for more information on setting
# up on your models and hooks.
# config.omniauth :github, 'APP_ID', 'APP_SECRET', scope: 'user,public_repo'

# ==> Warden configuration
# If you want to use other strategies, that are not supported by Devise, or
# change the failure app, you can configure them inside the config.warden block.
#
# config.warden do |manager|
#   manager.intercept_401 = false
#   manager.default_strategies(scope: :user).unshift :some_external_strategy
# end

# ==> Mountable engine configurations
# When using Devise inside an engine, let's call it `MyEngine`, and this engine
# is mountable, there are some extra configurations to be taken into account.
# The following options are available, assuming the engine is mounted as:
#
#   mount MyEngine, at: '/my_engine'
#
# The router that invoked `devise_for`, in the example above, would be:
# config.router_name = :my_engine
#
# When using OmniAuth, Devise cannot automatically set OmniAuth path,
# so you need to do it manually. For the users scope, it would be:
# config.omniauth_path_prefix = '/my_engine/users/auth'

# ==> Turbolinks configuration
# If your app is using Turbolinks, Turbolinks::Controller needs to be included to make redirection
work correctly:
#
# ActiveSupport.on_load(:devise_failure_app) do
#   include Turbolinks::Controller

```

```
# end

# ==> Configuration for :registerable

# When set to false, does not sign a user in automatically after their password is
# changed. Defaults to true, so a user is signed in automatically after changing a password.
# config.sign_in_after_change_password = true
end
```

## Gere as view e faça as alterações

rails generate devise:views users

```
C:\Sites\ror-jp-p3>rails generate devise:views users
  invoke  Devise::Generators::SharedViewsGenerator
  create  app/views/users/shared
  create  app/views/users/shared/ error_messages.html.erb
  create  app/views/users/shared/ links.html.erb
  invoke  form_for
  create  app/views/users/confirmations
  create  app/views/users/confirmations/new.html.erb
  create  app/views/users/passwords
  create  app/views/users/passwords/edit.html.erb
  create  app/views/users/passwords/new.html.erb
  create  app/views/users/registrations
  create  app/views/users/registrations/edit.html.erb
  create  app/views/users/registrations/new.html.erb
  create  app/views/users/sessions
  create  app/views/users/sessions/new.html.erb
  create  app/views/users/unlocks
  create  app/views/users/unlocks/new.html.erb
  invoke  erb
  create  app/views/users/mailer
  create  app/views/users/mailer/confirmation_instructions.html.erb
  create  app/views/users/mailer/email_changed.html.erb
  create  app/views/users/mailer/password_change.html.erb
  create  app/views/users/mailer/reset_password_instructions.html.erb
  create  app/views/users/mailer/unlock_instructions.html.erb
```

## views/users/registrations/new.html.erb

```
<h2>Registro de novo usuário</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>
```

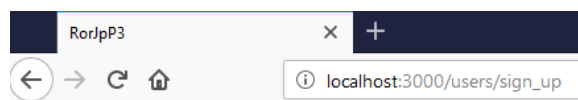
```
  <div class="field">
    <%= f.label :password %>
    <% if @minimum_password_length %>
    <em>(<%= @minimum_password_length %> characters minimum)</em>
    <% end %><br />
    <%= f.password_field :password, autocomplete: "new-password" %>
  </div>
```

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

```
  <div class="actions">
    <%= f.submit "Sign up" %>
  </div>
```

```
<% end %>
```

```
<%= render "users/shared/links" %>
```



### Registro de novo usuário

Email

Password

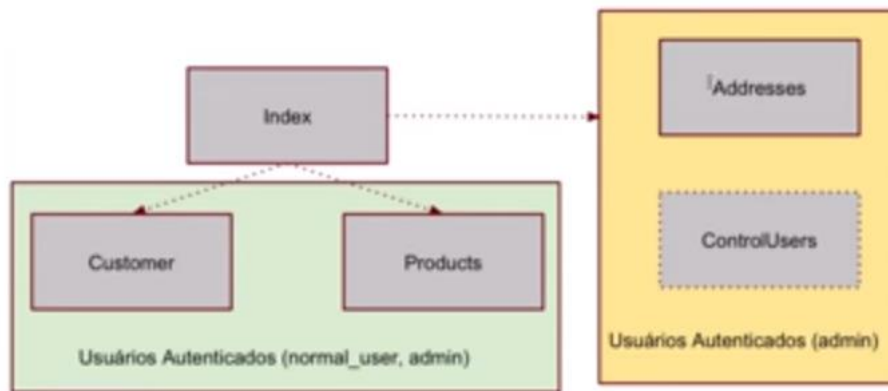
(6 characters minimum)

Password confirmation

Sign up

[Log in](#)

## AULA 39 - USANDO AUTORIZAÇÃO COM PUNDIT E DEVISE



rails g controller ControlUsers index

```
C:\Sites\ror-jp-p3>rails g controller ControlUsers index
create  app/controllers/control_users_controller.rb
route   get 'control_users/index'
invoke  erb
create  app/views/control_users
create  app/views/control_users/index.html.erb
invoke  test_unit
create  test/controllers/control_users_controller_test.rb
invoke  helper
create  app/helpers/control_users_helper.rb
invoke  test_unit
invoke  assets
invoke  coffee
create  app/assets/javascripts/control_users.coffee
invoke  scss
create  app/assets/stylesheets/control_users.scss
```

app/controllers/control\_users\_controller.rb

```
class ControlUsersController < ApplicationController
  before_action :authenticate_user!

  def index
    @users = User.all
  end
end
```



## app/controllers/addresses\_controller.rb

```
class AddressesController < ApplicationController
  before_action :set_address, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /addresses
  # GET /addresses.json
  def index
    @addresses = Address.all
  end

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

  # GET /addresses/new
  def new
    @address = Address.new
  end

  # GET /addresses/1/edit
  def edit
  end

  # POST /addresses
  # POST /addresses.json
  def create
    @address = Address.new(address_params)

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

  # PATCH/PUT /addresses/1
  # PATCH/PUT /addresses/1.json
  def update
    respond_to do |format|
      if @address.update(address_params)
        format.html { redirect_to @address, notice: 'Address was successfully updated.' }
        format.json { render :show, status: :ok, location: @address }
      else
    end
```

```

    format.html { render :edit }
    format.json { render json: @address.errors, status: :unprocessable_entity }
  end
end
end

# DELETE /addresses/1
# DELETE /addresses/1.json
def destroy
  @address.destroy
  respond_to do |format|
    format.html { redirect_to addresses_url, notice: 'Address was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def address_params
  params.require(:address).permit(:street, :zip, :customer_id)
end
end

```

## views/control\_users/index.html.erb

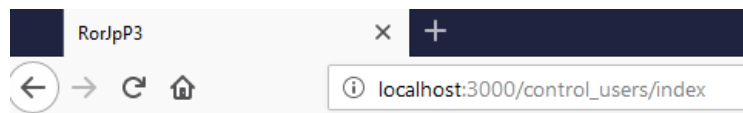
```
<p id="notice"><%= notice %></p>

<h1>Users</h1>

<table>
  <thead>
    <tr>
      <th>Email</th>
    </tr>
  </thead>

  <tbody>
    <% @users.each do |user| %>
      <tr>
        <td><%= user.email %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>
```



Login efetuado com sucesso!

## Users

### Email

admin@orion3.com.br

## Observe a migration/tabela do User

Users		Users	
email	<teste@teste.com>	email	<jack@teste.com>
encrypted_password	<7as89df9asdf9>	encrypted_password	<l35l435n66m3fds>
role	< 0 / normal_user>	role	< 1 / admin>
...		...	

email	encrypted_password	role
teste@teste.com	a9asfdasdf9	0
admin@teste.com	43324l5klkjin	1

## Adicionando uma migration para a role

rails g migration AddRole ToUsers

```
C:\Sites\ror-jp-p3>rails g migration AddRole ToUsers
  invoke  active_record
  create  db/migrate/20191026131159_add_role.rb
```

## Altere a migration

```
add_column :users, :role, :integer, :
          default => 0
```

db/migrate/20191026131159\_add\_role.rb

```
class AddRole < ActiveRecord::Migration[5.2]
  def change
    add_column :users, :role, :integer, :default => 0
  end
end
```

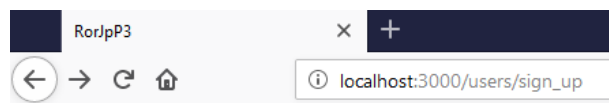
app/models/user.rb

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

## Rode a migration e teste a criação de um novo user

rake db:migrate

```
C:\Sites\ror-jp-p3>rake db:migrate
== 20191026131159 AddRole: migrating =====
-- add_column(:users, :role, :integer, {:default=>0})
   -> 1.1592s
== 20191026131159 AddRole: migrated (1.1599s) =====
```



### Registro de novo usuário

Email

jackson@gmail.com

Password

(6 characters minimum)

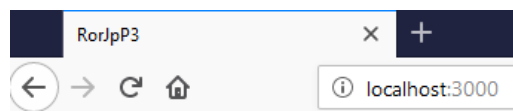
.....

Password confirmation

.....

Sign up

[Log in](#)



### Página Principal

- jackson@gmail.com
- [Sair](#)
- [Clientes](#)
- [Produtos](#)
- [Endereços](#)
- [Usuários](#)

app/views/control\_users/index.html.erb

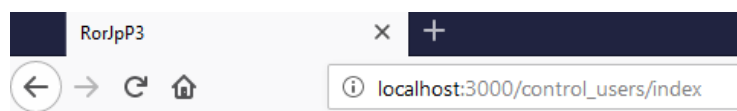
```
<p id="notice"><%= notice %></p>

<h1>Users</h1>

<table>
  <thead>
    <tr>
      <th>Email</th>
      <th>Role</th>
    </tr>
  </thead>

  <tbody>
    <% @users.each do |user| %>
      <tr>
        <td><%= user.email %></td>
        <td><%= user.role %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>
```



## Users

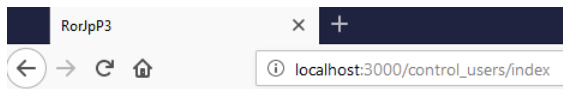
Email	Role
admin@orion3.com.br	normal_user
jackson@gmail.com	normal_user

## Ajuste a visualização dos usuários e faça testes no rails console

rails c

```
x = User.first
x.role = :admin
x.save
```

```
irb(main):001:0> x = User.first
(0.5ms) SET NAMES utf8, @@SESSION.sql_mode = CONCAT(CONCAT(@@sql_mode, 'STRICT_ALL_TABLES'), 'NO_AUTO_VALUE_ON_ZERO'), @@SESSIO
N.sql_auto_is_null = 0, @@SESSION.wait_timeout = 2147483
User Load (1.6ms) SELECT `users`.* FROM `users` ORDER BY `users`.`id` ASC LIMIT 1
=> #<User id: 1, email: "admin@orion3.com.br", created_at: "2019-10-26 00:51:55", updated_at: "2019-10-26 00:51:55", role: "normal_user"
">
irb(main):002:0> x.role = :admin
=> :admin
irb(main):003:0> x.save
(0.4ms) BEGIN
User Update (0.8ms) UPDATE `users` SET `updated_at` = '2019-10-26 14:31:42', `role` = 1 WHERE `users`.`id` = 1
(100.6ms) COMMIT
=> true
```



### Users

Email	Role
admin@orion3.com.br	admin
jackson@gmail.com	normal_user

## PUNDIT

Adicione ao Gemfile.

### Gemfile

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

ruby '2.5.1'

# Pundit
gem 'pundit'
# Devise
gem 'devise'
# Faker
gem 'faker'
gem 'pry', '~> 0.11.3'
gem 'rb-readline', '~> 0.5.3'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.3'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
```

```
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'dktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# 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 ActiveSupport's has_secure_password
# gem 'bcrypt', '~> 3.1.7'

# Use ActiveSupport variant
# gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development

# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

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 chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

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



`bundle install`

## Inclua o Pundit no ApplicationController

`app/controllers/application_controller.rb`

```
class ApplicationController < ActionController::Base
  include Pundit
  protect_from_forgery
end
```

## Instale o pundit na aplicação

`rails g pundit:install`

```
C:\Sites\ror-jp-p3>rails g pundit:install
create  app/policies/application_policy.rb
```

Após a instalação o pundit irá criar a pasta: **app/policies**

## Crie uma nova política para o model User

`rails g pundit:policy user`

```
C:\Sites\ror-jp-p3>rails g pundit:policy user
create  app/policies/user_policy.rb
invoke  test_unit
create  test/policies/user_policy_test.rb
```

`app/policies/user_policy.rb`

```
class UserPolicy < ApplicationPolicy
  class Scope < Scope
    def resolve
      scope.all
    end
  end
end
```

## Crie o método para testar se o usuário é admin

**app/policies/user\_policy.rb**

```
class UserPolicy < ApplicationPolicy
  def index?
    user.admin?
  end

  class Scope < Scope
    def resolve
      scope.all
    end
  end
end
```

## Ajustando mensagens de erro

**app/policies/user\_policy.rb**

```
class ApplicationController < ActionController::Base
  protect_from_forgery
  include Pundit

  rescue_from Pundit::NotAuthorizedError, with: :user_not_authorized

  private

  def user_not_authorized
    flash[:notice] = "Você não tem permissão para fazer esta ação."
    redirect_to(request.referrer || root_path)
  end
end
```

app/views/welcome/index.html.erb

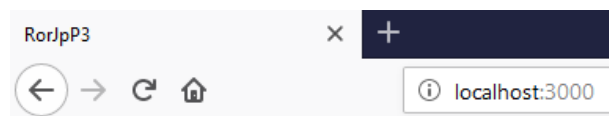
```
<p id="notice"><%= notice %></p>

<h1>Página Principal</h1>

<% if user_signed_in? %>
  <ul>
    <li><%= current_user.email %></li>
    <li><%= link_to "Sair", destroy_user_session_path, method: :delete %></li>
  </ul>
<% else %>
  <ul>
    <li><%= link_to "Cadastro de novo usuário", new_user_registration_path %></li>
    <li><%= link_to "Logar", new_user_session_path %></li>
  </ul>
<% end %>

<ul>
  <li><%= link_to "Clientes", customers_path %></li>
  <li><%= link_to "Produtos", products_path %></li>
  <li><%= link_to "Endereços", addresses_path %></li>
  <li><%= link_to "Usuários", control_users_index_path %></li>
</ul>
```

Quando um usuário normal tenta acessar a página de usuários:

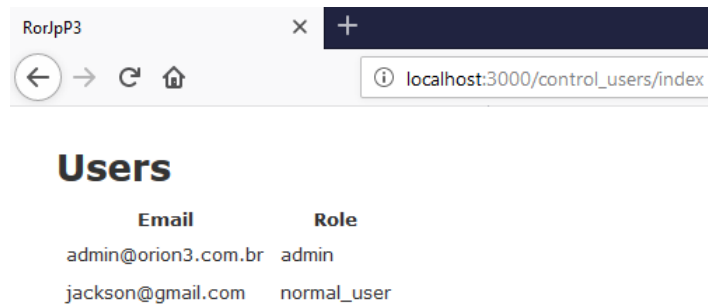


Você não tem permissão para fazer esta ação.

## Página Principal

- jackson@gmail.com
- [Sair](#)
- [Clientes](#)
- [Produtos](#)
- [Endereços](#)
- [Usuários](#)

Quando um administrador tenta acessar a página de usuários:



## FAZENDO O MESMO PARA O MODEL ADDRESS

**Crie uma nova política para o model Address**

`rails g pundit:policy address`

```
C:\Sites\ror-jp-p3>rails g pundit:policy address
create  app/policies/address_policy.rb
invoke  test_unit
create  test/policies/address_policy_test.rb
```

**Testando na view**

**app/views/addresses/index.html.erb**

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

<h1>Listing Addresses</h1>

<% if policy(@addresses).index? %>
<table>
  <thead>
    <tr>
      <th>Street</th>
      <th>Zip</th>
      <th>Customer</th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @addresses.each do |address| %>
    <tr>
```

```

        <td><%= address.street %></td>
        <td><%= address.zip %></td>
        <td><%= address.customer.name %></td>
        <td><%= link_to 'Show', address %></td>
        <td><%= link_to 'Edit', edit_address_path(address) %></td>
        <td><%= link_to 'Destroy', address, method: :delete, data: { confirm: 'Are you sure?' } %></td>
    </tr>
<% end %>
</tbody>
</table>

<br>

<%= link_to 'New Address', new_address_path %>
<% else %>
<table>
  <thead>
    <tr>
      <th>Street</th>
      <th>Zip</th>
    </tr>
  </thead>

  <tbody>
    <% @addresses.each do |address| %>
      <tr>
        <td><%= address.street %></td>
        <td><%= address.zip %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<% end %>

```

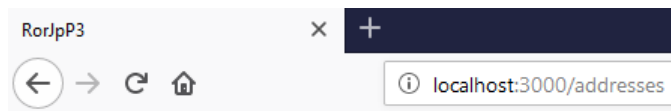
## Crie o método para testar se o usuário é admin

app/policies/address\_policy.rb

```
class AddressPolicy < ApplicationPolicy
  def index?
    user.admin?
  end

  class Scope < Scope
    def resolve
      scope.all
    end
  end
end
```

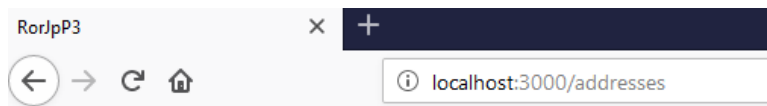
Acessando como usuário normal:



### Listing Addresses

Street	Zip
Rua dos Andradas, 58	03118-001
Rua Alvorada, 157	04672-021

Acessando como administrador:



### Listing Addresses

Street	Zip	Customer	
Rua dos Andradas, 58	03118-001	Adalberto	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Rua Alvorada, 157	04672-021	Marina	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Address](#)

## Otimizando o código

### app/views/addresses/index.html.erb

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

<h1>Listing Addresses</h1>

<% if policy(@addresses).index? %>
  <%= render partial: "admin_index" %>
<% else %>
  <%= render partial: "normal_user_index" %>
<% end %>
```

### app/views/addresses/\_admin\_index.html.erb

```
<table>
  <thead>
    <tr>
      <th>Street</th>
      <th>Zip</th>
      <th>Customer</th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @addresses.each do |address| %>
      <tr>
        <td><%= address.street %></td>
        <td><%= address.zip %></td>
        <td><%= address.customer.name %></td>
        <td><%= link_to 'Show', address %></td>
        <td><%= link_to 'Edit', edit_address_path(address) %></td>
        <td><%= link_to 'Destroy', address, method: :delete, data: { confirm: 'Are you sure?' } %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>
<%= link_to 'New Address', new_address_path %>
```

app/views/addresses/\_normal\_user\_index.html.erb

```
<table>
  <thead>
    <tr>
      <th>Street</th>
      <th>Zip</th>
    </tr>
  </thead>

  <tbody>
    <% @addresses.each do |address| %>
      <tr>
        <td><%= address.street %></td>
        <td><%= address.zip %></td>
      </tr>
    <% end %>
  </tbody>
</table>
```



## AULA 40 - CRIANDO PESQUISAS COM O RANSACK

Gemfile

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

ruby '2.5.1'

# Ransack
gem 'ransack'

# Pundit
gem 'pundit'

# Devise
gem 'devise'

# Faker
gem 'faker'

gem 'pry', '~> 0.11.3'
gem 'rb-readline', '~> 0.5.3'
# Bundle edge Rails instead: gem 'rails', github: 'rails/rails'
gem 'rails', '~> 5.2.3'
# Use mysql as the database for Active Record
gem 'mysql2', '>= 0.4.4', '< 0.6.0'
# Use Puma as the app server
gem 'puma', '~> 3.11'
# Use SCSS for stylesheets
gem 'sass-rails', '~> 5.0'
# Use Uglifier as compressor for JavaScript assets
gem 'uglifier', '>= 1.3.0'
# See https://github.com/rails/execjs#readme for more supported runtimes
gem 'duktape'
# Use CoffeeScript for .coffee assets and views
gem 'coffee-rails', '~> 4.2'
# 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 ActiveModel has_secure_password
# gem 'bcrypt', '~> 3.1.7'

# Use ActiveSupport variant
# gem 'mini_magick', '~> 4.8'

# Use Capistrano for deployment
# gem 'capistrano-rails', group: :development
```

```
# Reduces boot times through caching; required in config/boot.rb
gem 'bootsnap', '>= 1.1.0', require: false

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 chromedriver to run system tests with Chrome
  gem 'chromedriver-helper'
end

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

**bundle install**

## SIMPLE MODE

### Helper

search\_form\_for

### Na view

app/views/products/index.html.erb

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

```
<%= search_form_for @q do |f| %>
  <%= f.label :description_cont %>
  <%= f.search_field :description_cont %>
  <%= f.submit %>
<% end %>
```

```
<h1>Listing Products</h1>
```

```
<table>
  <thead>
    <tr>
      <th>Description</th>
      <th>Quantity</th>
      <th colspan="3"></th>
    </tr>
  </thead>
```

```
<tbody>
  <% @products.each do |product| %>
    <tr>
      <td><%= product.description %></td>
      <td><%= product.quantity %></td>
      <td><%= link_to 'Show', product %></td>
      <td><%= link_to 'Edit', edit_product_path(product) %></td>
      <td><%= link_to 'Destroy', product, method: :delete, data: { confirm: 'Are you sure?' } %></td>
    </tr>
  <% end %>
</tbody>
</table>
```

```
<br>
```

```
<%= link_to 'New Product', new_product_path %>
```

## No controller

```
def index
  @q = Product.ransack(params[:q])
  @products = @q.result
end
```

### app/controllers/product\_controller.rb

```
class ProductsController < ApplicationController
  before_action :set_product, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /products
  # GET /products.json
  def index
    @q = Product.ransack(params[:q])
    @products = @q.result

    # @products = Product.all
  end

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

  # GET /products/new
  def new
    @product = Product.new
  end

  # GET /products/1/edit
  def edit
  end

  # POST /products
  # POST /products.json
  def create
    @product = Product.new(product_params)

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

```

    end
  end
end

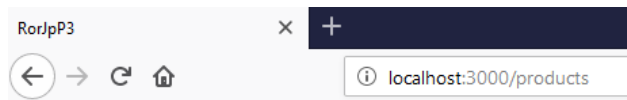
# PATCH/PUT /products/1
# PATCH/PUT /products/1.json
def update
  respond_to do |format|
    if @product.update(product_params)
      format.html { redirect_to @product, notice: 'Product was successfully updated.' }
      format.json { render :show, status: :ok, location: @product }
    else
      format.html { render :edit }
      format.json { render json: @product.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /products/1
# DELETE /products/1.json
def destroy
  @product.destroy
  respond_to do |format|
    format.html { redirect_to products_url, notice: 'Product was successfully destroyed.' }
    format.json { head :no_content }
  end
end

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

# Never trust parameters from the scary internet, only allow the white list through.
def product_params
  params.require(:product).permit(:description, :quantity)
end

```



Description contém

Pesquisar

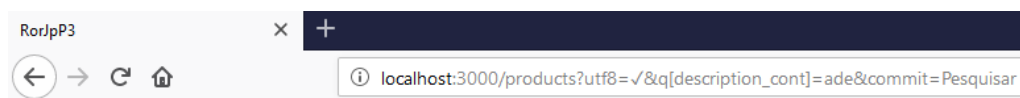
## Listing Products

**Description** **Quantity**

Liquidificador 2 [Show](#) [Edit](#) [Destroy](#)

Enceradeira 1 [Show](#) [Edit](#) [Destroy](#)

[New Product](#)



Description contém

Pesquisar

## Listing Products

**Description** **Quantity**

Enceradeira 1 [Show](#) [Edit](#) [Destroy](#)

[New Product](#)

## Ordenando columnas

sort\_link

app/views/products/index.html.erb

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

<%= search_form_for @q do |f| %>
  <%= f.label :description_cont %>
  <%= f.search_field :description_cont %>
  <%= f.submit %>
<% end %>

<h1>Listing Products</h1>

<table>
  <thead>
    <tr>
      <th><%= sort_link(@q, :description) %></th>
      <th><%= sort_link(@q, :quantity) %></th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @products.each do |product| %>
      <tr>
        <td><%= product.description %></td>
        <td><%= product.quantity %></td>
        <td><%= link_to 'Show', product %></td>
        <td><%= link_to 'Edit', edit_product_path(product) %></td>
        <td><%= link_to 'Destroy', product, method: :delete, data: { confirm: 'Are you sure?' } %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>

<%= link_to 'New Product', new_product_path %>
```

Description contém

Pesquisar

## Listing Products

Description ▲	Quantity	
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

Description contém

Pesquisar

## Listing Products

Description ▼	Quantity	
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

Description contém

Pesquisar

## Listing Products

Description	Quantity ▲	
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

Description contém

Pesquisar

## Listing Products

Description	Quantity ▼	
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)



## Adicionando mais opções de pesquisa na view

app/views/products/index.html.erb

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

<%= search_form_for @q do |f| %>
  <%= f.label :description_cont, "Descrição contendo:" %>
  <%= f.search_field :description_cont %>

  <%= f.label :quantity_lteq, "Quantidade menor que:" %>
  <%= f.search_field :quantity_lt %>

  <br>

  <%= f.submit %>
<% end %>

<h1>Listing Products</h1>

<table>
  <thead>
    <tr>
      <th><%= sort_link(@q, :description) %></th>
      <th><%= sort_link(@q, :quantity) %></th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @products.each do |product| %>
      <tr>
        <td><%= product.description %></td>
        <td><%= product.quantity %></td>
        <td><%= link_to 'Show', product %></td>
        <td><%= link_to 'Edit', edit_product_path(product) %></td>
        <td><%= link_to 'Destroy', product, method: :delete, data: { confirm: 'Are you sure?' } %></td>
      </tr>
    <% end %>
  </tbody>
</table>

<br>

<%= link_to 'New Product', new_product_path %>
```

RorJP3 x +

localhost:3000/products?utf8=✓&q[description\_cont]=a&q[quantity\_lt]=8&commit=Pesquisar

Descrição contendo:  
  
Quantidade menor que:

## Listing Products

Description	Quantity	
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Forno de micro-ondas	11	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

RorJP3 x +

localhost:3000/products?utf8=✓&q[description\_cont]=a&q[quantity\_lt]=8&commit=Pesquisar

Descrição contendo:  
  
Quantidade menor que:

## Listing Products

Description	Quantity	
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

## Pesquisas não restritivas (ou)

AND => OR

### app/controllers/product\_controller.rb

```
class ProductsController < ApplicationController
  before_action :set_product, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /products
  # GET /products.json
  def index
    # @q = Product.ransack(params[:q])
    @q = Product.ransack(params[:q].try(:merge, m: 'or'))
    @products = @q.result

    # @products = Product.all
  end

  # GET /products/1
  # GET /products/1.json
```

```
def show
end

# GET /products/new
def new
  @product = Product.new
end

# GET /products/1/edit
def edit
end

# POST /products
# POST /products.json
def create
  @product = Product.new(product_params)

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

# PATCH/PUT /products/1
# PATCH/PUT /products/1.json
def update
  respond_to do |format|
    if @product.update(product_params)
      format.html { redirect_to @product, notice: 'Product was successfully updated.' }
      format.json { render :show, status: :ok, location: @product }
    else
      format.html { render :edit }
      format.json { render json: @product.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /products/1
# DELETE /products/1.json
def destroy
  @product.destroy
  respond_to do |format|
    format.html { redirect_to products_url, notice: 'Product was successfully destroyed.' }
    format.json { head :no_content }
  end
end
```

```

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

# Never trust parameters from the scary internet, only allow the white list through.
def product_params
  params.require(:product).permit(:description, :quantity)
end
end

```

The screenshot shows a web browser window with the URL `localhost:3000/products?utf8=✓&q[description_cont]=t&q[quantity_lt]=7&commit=Pesquisar`. The page contains a search form with two input fields: "Descrição contendo:" with the value "t" and "Quantidade menor que:" with the value "7". Below the inputs is a "Pesquisar" button. The main content area is titled "Listing Products" and displays a table of products. The table has columns for "Description" and "Quantity". The products listed are "Liquidificador" (2), "Enceradeira" (1), and "TV de led" (6). Each product row has links for "Show", "Edit", and "Destroy". At the bottom of the listing, there is a link for "New Product".

Description	Quantity	Actions
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
TV de led	6	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

## Automatizando o E/OU

### app/controllers/product\_controller.rb

```

class ProductsController < ApplicationController
  before_action :set_product, only: [:show, :edit, :update, :destroy]
  before_action :authenticate_user!

  # GET /products
  # GET /products.json
  def index
    # @q = Product.ransack(params[:q])
    # @q = Product.ransack(params[:q].try(:merge, m: 'or'))
    @q = Product.ransack(params[:q].try(:merge, m: params[:combinator]))
    @products = @q.result

    # @products = Product.all
  end
end

```

```
# GET /products/1
# GET /products/1.json
def show
end

# GET /products/new
def new
  @product = Product.new
end

# GET /products/1/edit
def edit
end

# POST /products
# POST /products.json
def create
  @product = Product.new(product_params)

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

# PATCH/PUT /products/1
# PATCH/PUT /products/1.json
def update
  respond_to do |format|
    if @product.update(product_params)
      format.html { redirect_to @product, notice: 'Product was successfully updated.' }
      format.json { render :show, status: :ok, location: @product }
    else
      format.html { render :edit }
      format.json { render json: @product.errors, status: :unprocessable_entity }
    end
  end
end

# DELETE /products/1
# DELETE /products/1.json
def destroy
  @product.destroy
  respond_to do |format|
    format.html { redirect_to products_url, notice: 'Product was successfully destroyed.' }
    format.json { head :no_content }
  end
end
```

```

    end
  end

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

    # Never trust parameters from the scary internet, only allow the white list through.
    def product_params
      params.require(:product).permit(:description, :quantity)
    end
  end
end

```

### app/views/products/index.html.erb

```

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

<%= search_form_for @q do |f| %>
  <%= f.label :description_cont, "Descrição contendo:" %>
  <%= f.search_field :description_cont %>

  <%= f.select :combinator, [['E','and'], ['OU','or']] %>

  <%= f.label :quantity_lteq, "Quantidade menor que:" %>
  <%= f.search_field :quantity_lt %>

  <br>

  <%= f.submit %>
<% end %>

<h1>Listing Products</h1>

<table>
  <thead>
    <tr>
      <th><%= sort_link(@q, :description) %></th>
      <th><%= sort_link(@q, :quantity) %></th>
      <th colspan="3"></th>
    </tr>
  </thead>

  <tbody>
    <% @products.each do |product| %>
      <tr>
        <td><%= product.description %></td>

```

```

<td><%= product.quantity %></td>
<td><%= link_to 'Show', product %></td>
<td><%= link_to 'Edit', edit_product_path(product) %></td>
<td><%= link_to 'Destroy', product, method: :delete, data: { confirm: 'Are you sure?' } %></td>
</tr>
<% end %>
</tbody>
</table>

<br>

<%= link_to 'New Product', new_product_path %>

```

RorJP3 x +

localhost:3000/products?utf8=✓&q[description\_cont]=t&q[combinator]=and&q[quantity\_lt]=7&commit=Pesqui

Descrição contendo:

t E ▾

Quantidade menor que:

7

Pesquisar

## Listing Products

Description	Quantity	
TV de led	6	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)

RorJP3 x +

localhost:3000/products?utf8=✓&q[description\_cont]=t&q[combinator]=or&q[quantity\_lt]=7&commit=Pesqui

Descrição contendo:

t OU ▾

Quantidade menor que:

7

Pesquisar

## Listing Products

Description	Quantity	
Liquidificador	2	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
Enceradeira	1	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
TV de led	6	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Product](#)