

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:0x0000000003d72780>
[4] pry(main)> x.ola
Ola #<Teste:0x0000000003d72780>
=> nil
[5] pry(main)> puts x
#<Teste:0x0000000003d72780>
=> 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:0x000000002ccbd8>
[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 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]
```

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

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

Enter search term...

Search

Customers

Name	Email	
Djalma Vidal	dominic@stiedemannolson.name	Show Edit Destroy
Célia Vidal	jeika@mohr.com	Show Edit Destroy

[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

```

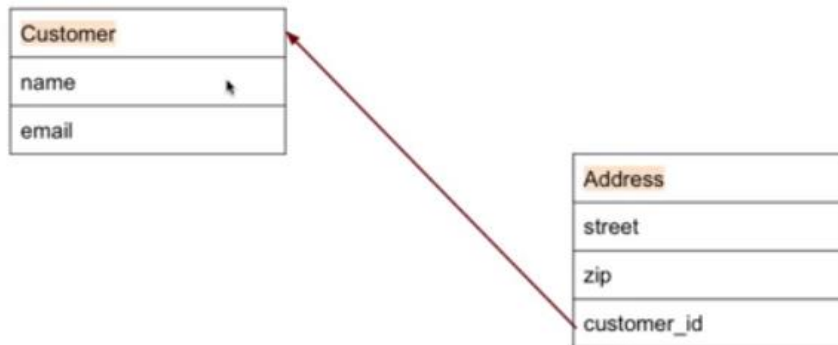
Usando scopes

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>

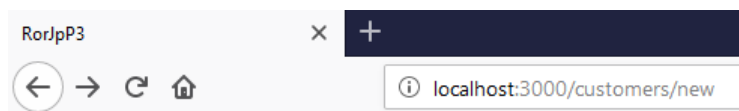
<p>
  <strong>Name:</strong>
  <%= @customer.name %>
</p>

<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

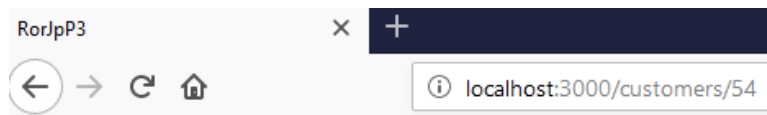
Email

Street

Zip

[Create Customer](#)

[Back](#)



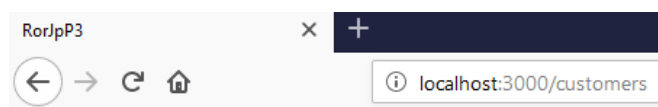
Name: Marina

Email: marina@gmail.com

Street: Rua Alvorada, 157

Zip 04672-021

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



Search

Customers

Name	Email	
Adalberto	adalberto@hotmail.com	Show Edit Destroy
Marina	marina@gmail.com	Show Edit Destroy

[New Customer](#)

app/views/addresses/index.html.erb

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

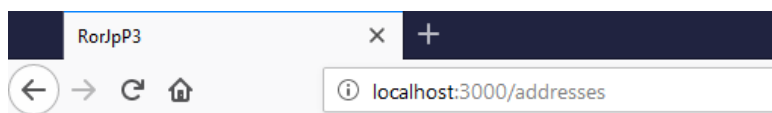
<h1>Addresses</h1>

<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 %>
```

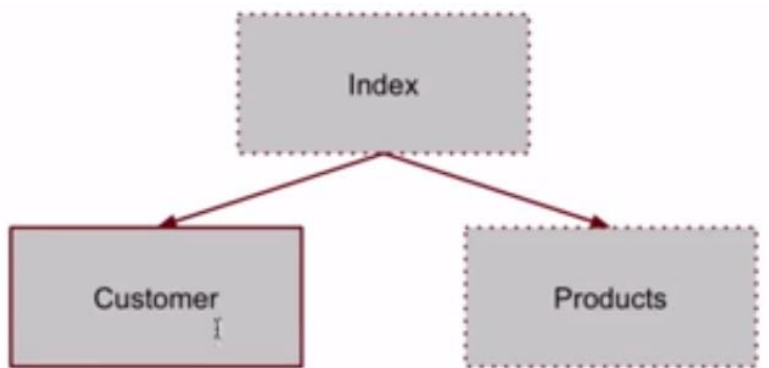


Addresses

Street	Zip	Customer	
Rua dos Andradas, 58	03118-001	Adalberto	Show Edit Destroy
Rua Alvorada, 157	04672-021	Marina	Show Edit Destroy

[New Address](#)

Aula 38 - Autenticação de usuários com Devise



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

`rails g controller Welcome index`

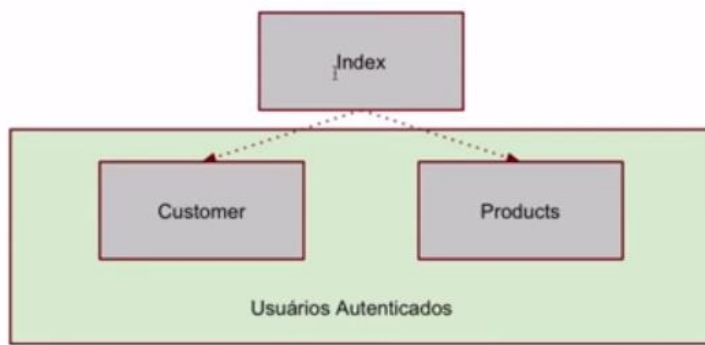
`rake db:migrate`

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', ' caching-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

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
    end
```

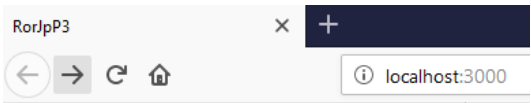
```
    format.html { render :edit }
    format.json { render json: @product.errors, status: :unprocessable_entity }
  end
end
end

# 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

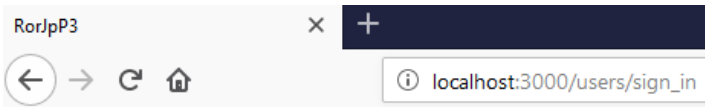
# Never trust parameters from the scary internet, only allow the white list through.
def product_params
  params.require(:product).permit(:description, :quantity)
end
end
```

Tente acessar os cadastros envolvidos



Página Principal

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



Log in

Email

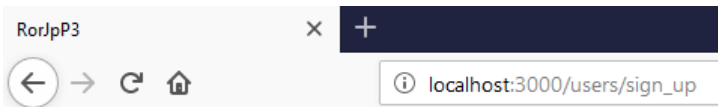
Password

☐

Remember me

[Sign up](#)

[Forgot your password?](#)



Sign up

Email

Password

(6 characters minimum)

Password confirmation

[Log in](#)

Senha: 123456

RorIpP3 x +

← → ↻ 🏠 ⓘ localhost:3000/users/sign_up

Sign up

Email

Password
(6 characters minimum)

Password confirmation

[Log in](#)

RorIpP3 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	Show Edit Destroy
Marina	marina@gmail.com	Show Edit Destroy

[New Customer](#)

Verifique as novas rotas

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

Routes

localhost:3000/rails/info/routes 80%

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
---------------------------	--------	---------------------------	-------------------------

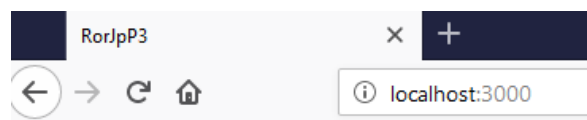
Crie os links para o cadastro de novos usuários

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

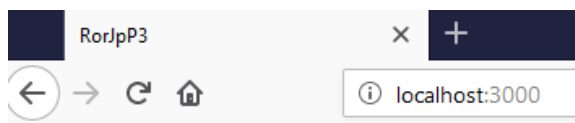
user_session

app/views/welcome/index.html.erb

```
<h1>Página Principal</h1>

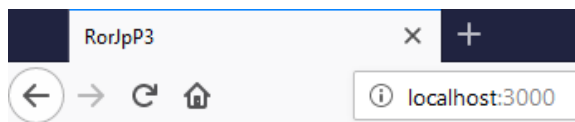
<% if user_signed_in? %>
  <ul>
    <li><%= current_user.email %></li>
    <li><%= link_to "Sair", destroy_user_session_path, method: :delete %></li>
  </ul>
<% else %>
  <ul>
    <li><%= link_to "Cadastro de novo usuário", new_user_registration_path %></li>
    <li><%= link_to "Logar", new_user_session_path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

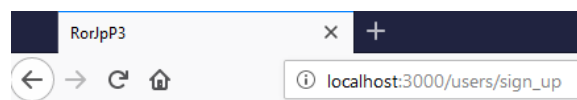
  <div class="field">
    <%= f.label :email %><br />
    <%= f.email_field :email, autofocus: true, autocomplete: "email" %>
  </div>

  <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

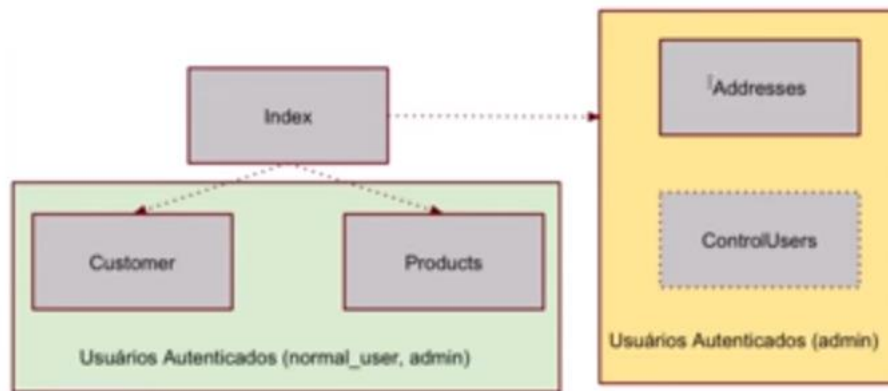
(6 characters minimum)

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

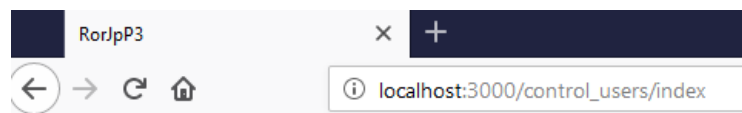
```
<p id="notice"><%= notice %></p>

<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
```

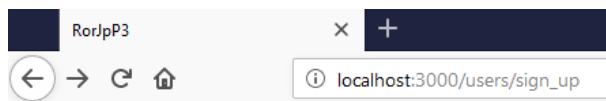
app/models/user.rb

```
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

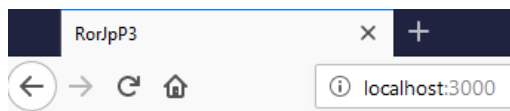
Email

Password

(6 characters minimum)

Password confirmation

[Log in](#)



Página Principal

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

app/views/control_users/index.html.erb

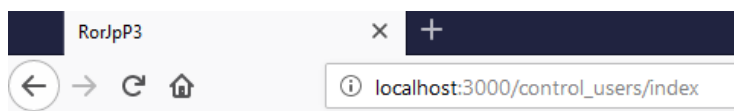
```
<p id="notice"><%= notice %></p>

<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

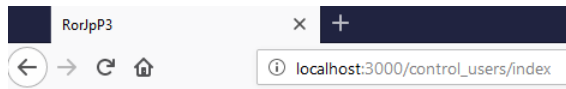
Email	Role
admin@orion3.com.br	normal_user
jackson@gmail.com	normal_user

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'), @@SESSION.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 '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]
```

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:

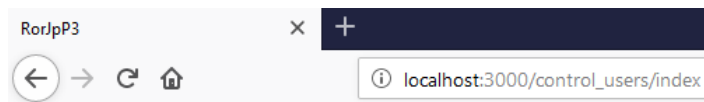


Você não tem permissão para fazer esta ação.

Página Principal

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

Quando um administrador tenta acessar a página de usuários:



Users

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

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 %>
```

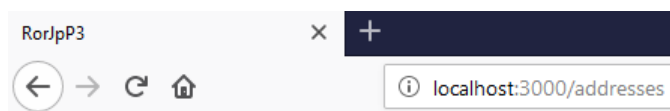
Crie o método para testar se o usuário é admin

app/policies/address_policy.rb

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

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

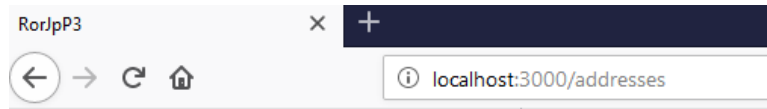
Acessando como usuário normal:



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	Show Edit Destroy
Rua Alvorada, 157	04672-021	Marina	Show Edit Destroy

[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 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]
```

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

  # 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

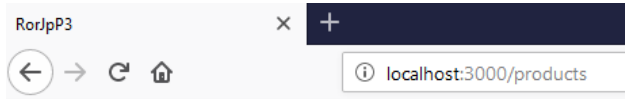
  # DELETE /products/1
  # DELETE /products/1.json
  def destroy
    @product.destroy
    respond_to do |format|
      format.html { redirect_to products_url, notice: 'Product was successfully destroyed.' }
      format.json { head :no_content }
    end
  end

  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

```



Description contém

Pesquisar

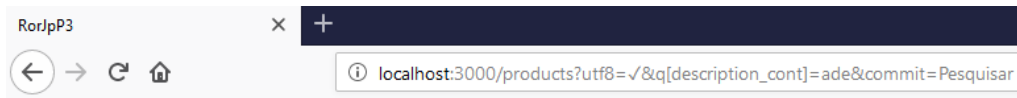
Listing Products

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	Show Edit Destroy
Liquidificador	2	Show Edit Destroy

[New Product](#)

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
Liquidificador	2	Show Edit Destroy

[New Product](#)

Description contém

Pesquisar

Listing Products

Description	Quantity ▼	
Liquidificador	2	Show Edit Destroy
Enceradeira	1	Show Edit Destroy

[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 %>

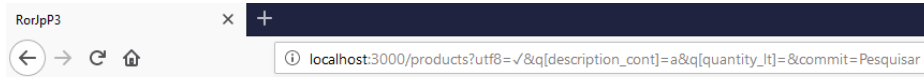
<h1>Listing Products</h1>

<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 %>
```



Descrição contendo:

a

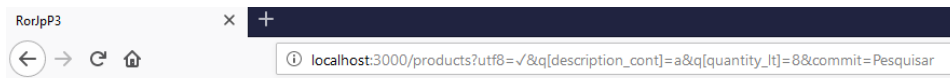
Quantidade menor que:

Pesquisar

Listing Products

Description	Quantity	
Liquidificador	2	Show Edit Destroy
Enceradeira	1	Show Edit Destroy
Forno de micro-ondas	11	Show Edit Destroy

[New Product](#)



Descrição contendo:

a

Quantidade menor que:

8

Pesquisar

Listing Products

Description	Quantity	
Liquidificador	2	Show Edit Destroy
Enceradeira	1	Show Edit Destroy

[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
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

```

RorlpP3 x +

localhost:3000/products?utf8=✓&q[description_cont]=t&q[quantity_lt]=7&commit=Pesquisar

Descrição contendo:

Quantidade menor que:

Listing Products

Description	Quantity	
Liquidificador	2	Show Edit Destroy
Enceradeira	1	Show Edit Destroy
TV de led	6	Show Edit Destroy

[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

  # 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
```

```

# 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

```


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 %>
```

RorIpP3

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 led6

Show

Edit

Destroy

New Product

RorIpP3

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

Liquidificador2

Show

Edit

Destroy

Enceradeira1

Show

Edit

Destroy

TV de led6

Show

Edit

Destroy

New Product