



João Gonçalves

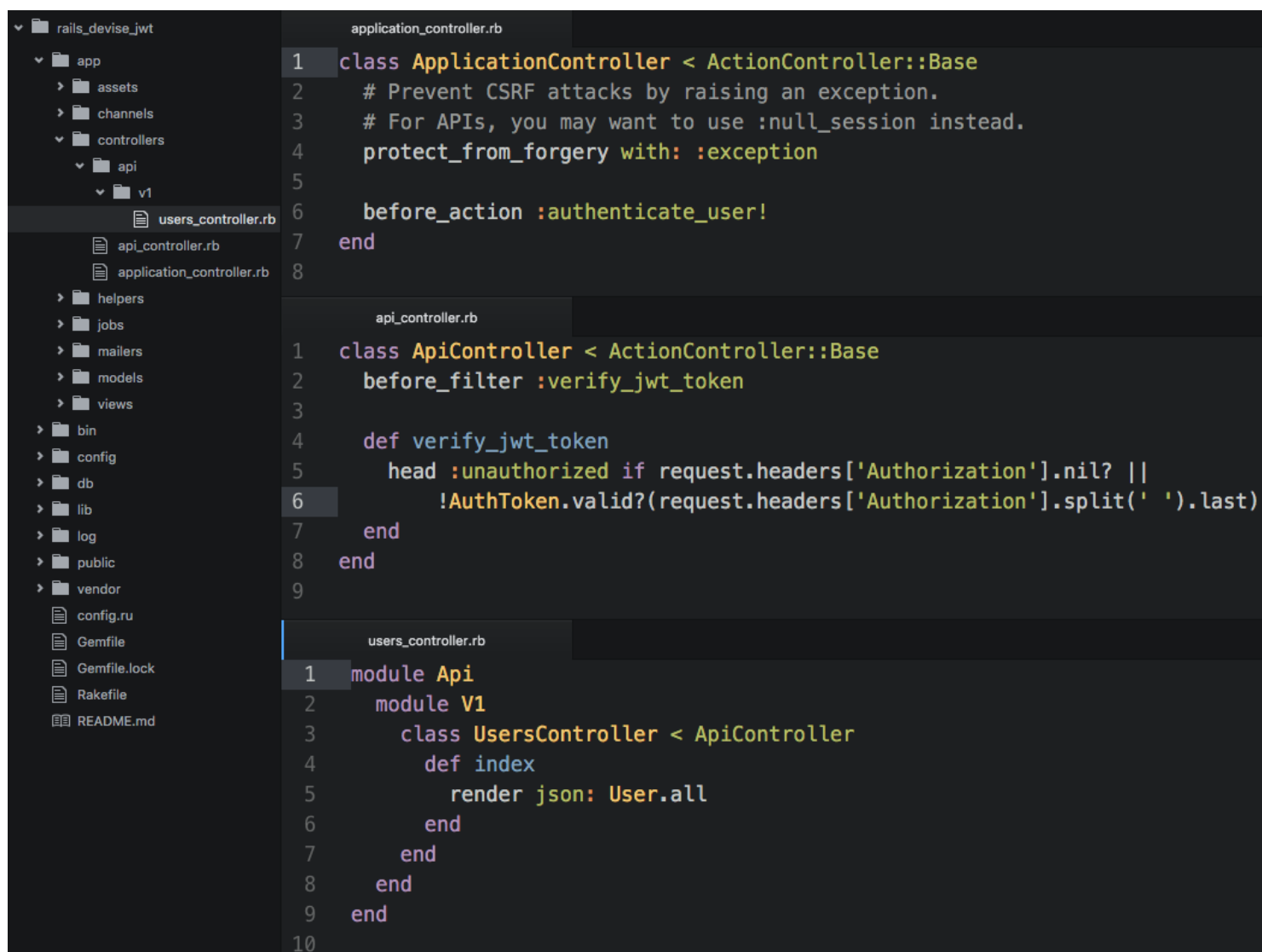
[Follow](#)

Apr 15 · 2 min read

## Rails, Devise, JWT and the forgotten Warden

Long story short: Most of the examples that we found under the *Rails devise jwt examples* google search do not make full use of **devise's** capabilities.

Using a custom **before\_action** under the **ApiController** to verify if the request contains a valid **JWT token** and ignoring the already existing **before\_action :authenticate\_user!** is not the best “devise example”.



not cool

It will render all of **Devise**'s helpers like **current\_user**, **user\_signed\_in?** useless and is actually ignoring all the work that the authors' had to make **Devise** into a:

*"Flexible authentication solution for Rails with Warden"* **devise gemspec description**

**So, what is Warden, you ask.**

**Warden** is a ruby gem that does the actual authentication through an array of strategies; when the first strategy fails to authenticate the user, it uses the next and so forth.

**Devise** adds several strategies to **Warden**, according to your **User Model** configuration (if it is **rememberable**, **database\_authenticatable**, etc.) and delegates the real authentication process to **Warden**, if one of the strategies (user cookie session, user password credentials, etc.) turns out ok, **Devise** will trust **Warden's** judgment and behave accordingly.

## Cool, lets build our own JWT Strategy and add it to Warden's list

With this new strategy added to the top of the list, if you make a request with a **JWT token** in the **HTTP Authorization Header** that strategy will kick in and **Warden** will tell **Devise** that the user is logged in, just like when you make a request with a **cookie session**.

Adding a new way to authenticate your user should not require you to change your app, this authentication middleware (JWT strategy) will allow your app to trust **Devise** like it should, **before\_action :authenticate\_user!** will enforce both your **JWT authentication** and your **User Model** configuration, **current\_user** will return the authenticated user, **user\_signed\_in?** will correctly return true or false and all of the other helpers will behave like they should.

So without further ado...

. . .

## Changes you need to make in order to make Devise use JWT Header Authentication

```

1  # Add somewhere to your Devise configuration
2  # "config/initializers/devise.rb"
3
4  Devise.setup do |config|
5    # ...
6
7    config.warden do |manager|
8      # Registering your new Strategy
9      manager.strategies.add(:jwt, Devise::Strategies::JsonWe
10
11      # Adding the new JWT Strategy to the top of Warden's li
12      # Scoped by what Devise would scope (typically :user)
13      manager.default_strategies(scope: :user).unshift :jwt
14    end
15
16    # ...
17  end

```

**devise.rb** hosted with ❤ by GitHub

[view raw](#)

```

1  # Add the "https://github.com/jwt/ruby-jwt" gem to your "Gem
2  gem 'jwt'

```

**Gemfile** hosted with ❤ by GitHub

[view raw](#)

```

1  # Add the following code to a view
2  # It will show you an example of how to make a
3  # curl HTTP request with the proper authentication headers.
4  # Be sure to actually use a working route and not "http://lo
5
6  <% if user_signed_in? %>
7    curl -X GET --header 'Authorization: Bearer <%= JWTwrapper
8  <% end %>
9

```

**index.html.erb** hosted with ❤ by GitHub

[view raw](#)

```

1  # Your actual JWT Strategy
2  # "config/initializers/core_extensions/devise/strategies/js
3

```

```
4  module Devise
5    module Strategies
6      class JsonWebToken < Base
7        def valid?
8          request.headers['Authorization'].present?
9        end
10
11       def authenticate!
12         return fail! unless claims
13         return fail! unless claims.has_key?('user_id')
14
15         success! User.find_by_id claims['user_id']
16       end
17
18       protected ##### PROTECTED #####
19
20       def claims
21         strategy, token = request.headers['Authorization'].
22
23         return nil if (strategy || '').downcase != 'bearer'
24
25         JWTWrapper.decode(token) rescue nil
26       end
27     end
28   end
```

Cool, hope it helps anyone.

