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Does Rails come with a "not authorized" exception?



I am writing an application that uses plain old Ruby objects (POROs) to abstract authorization logic out of controllers.

Modified 2 years, 11 months ago Viewed 33k times

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Currently, I have a custom exception class called <code>NotAuthorized</code> that I <code>rescue_from</code> at the controller level, but I was curious to know: **Does Rails 4** already come with an exception to indicate that an action was not authorized?

Am I reinventing the wheel by implementing this exception?

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Clarification: The raise AuthorizationException is not happening anywhere inside of a controller, it is happening inside of a completely decoupled PORO outside of the controller. The object has no knowledge of HTTP, routes or controllers.

ruby-on-rails ruby actioncontroller

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edited Sep 17, 2014 at 14:13

asked Sep 17, 2014 at 13:38

9

8,776 • 9 • 50 • 78

well the http error code 401 means unauthorized, you could tell rails to return a 401 status code, and render whatever view you want – Mohammad AbuShady Sep 17, 2014 at 13:58

- @MohammadAbuShady I believe he's looking for sth like raise
 ActionController::RoutingError.new('Not Found') which automatically
 forces application to render 404 without any rescue statmenets. BroiSatse Sep 17,
 2014 at 14:08
- 2 I usually just use devise + cancan, a nice combination for authentication and authorization Mohammad AbuShady Sep 17, 2014 at 14:09
- Agree with @MohammadAbuShady but, if you go that route, make sure it's CanCanCan since CanCan has been abandoned :)! craig.kaminsky Sep 17, 2014 at 14:18



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Rails doesn't seem to map an exception to :unauthorized.

The default mappings are defined in <u>activerecord/lib/active record/railtie.rb</u>: 38







```
config.action_dispatch.rescue_responses.merge!(
  'ActiveRecord::RecordNotFound' => :not_found,
  'ActiveRecord::StaleObjectError' => :conflict,
  'ActiveRecord::RecordInvalid' => :unprocessable_entity,
  'ActiveRecord::RecordNotSaved' => :unprocessable_entity
)
```



and actionpack/lib/action dispatch/middleware/exception wrapper.rb:

```
@@rescue_responses.merge!(
  'ActionController::RoutingError'
                                               => :not_found,
  'AbstractController::ActionNotFound'
                                               => :not_found,
                                               => :method_not_allow
  'ActionController::MethodNotAllowed'
  'ActionController::UnknownHttpMethod'
                                               => :method_not_allow
  'ActionController::NotImplemented'
                                               => :not_implemented,
  'ActionController::UnknownFormat'
                                               => :not_acceptable,
  'ActionController::InvalidAuthenticityToken' => :unprocessable_en
  'ActionDispatch::ParamsParser::ParseError' => :bad_request,
  'ActionController::BadRequest'
                                               => :bad_request,
  'ActionController::ParameterMissing'
                                               => :bad_request
)
```

You could add a custom exception from within your application's configuration (or a custom Railtie):

```
Your::Application.configure do
  config.action_dispatch.rescue_responses.merge!(
    'AuthorizationException' => :unauthorized
  )
  # ...
end
```



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answered Sep 17, 2014 at 15:13



- 1 Thank you for answering my question. I am curious how exceptions are mapped with Mongoid as the ORM. Rick Sep 17, 2014 at 15:27
- 1 @Stefan's link references a specific line number in master which changes over time. Here's a more "perma" link to that code:

 github.com/mongoid/mongoid/blob/v4.0.2/lib/mongoid/... Luke Griffiths Jan 13, 2016 at 22:02

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I'm guessing the reason Rails didn't introduce this exception is because Authorisation and Authentication is not Rails native behavior (not considering basicauth of course).



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Usually these are responsibilities of other libraries <u>Devise</u> for NotAuthenticated; <u>Pundit</u>, <u>Dude Policy</u>, <u>CanCanCan</u>, Rollify for NotAuthorized) I would actually argue it may be a bad thing to extend <u>ActionController</u> with custom exceptions like <u>ActionController</u>: NotAuthorized (because like I said it's not it's responsibility)



So Way how I usually tackled this problem is that I've introduced custom exceptions on ApplicationController





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```
end
end
end
```

Therefore in my controllers I can do

```
class MyStuff < ApplicationController
  def index
    if current_user.admin?
        # ....
    else
        raise ApplicationController::NotAuthorized
    end
  end
end</pre>
```

This clearly defines that the layer your expecting this exception to be raised and caught is your application layer, not 3rd party lib.

The thing is that libraries can change (and yes this means Rails too) defining exception on a 3rd party lib classes and rescuing them in your application layer is really dangerous as if the meaning of exception class changes it brakes your rescue_from

You can read lot of articles where people are Waring about Rails raise - rescue_from being the modern goto (now considering anti-pattern amongst some experts) and in certain extend it is true, but only if you are rescuing Exceptions that you don't have full control off!!

That means 3rd party exceptions (including Devise and Rails to certain point). If you define the exceptions classes in your application, you are not relaying on 3rd party lib => you have full control => you can rescue_from without this being an anti-pattern.

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edited Nov 11, 2021 at 11:08

answered Jul 27, 2016 at 15:28

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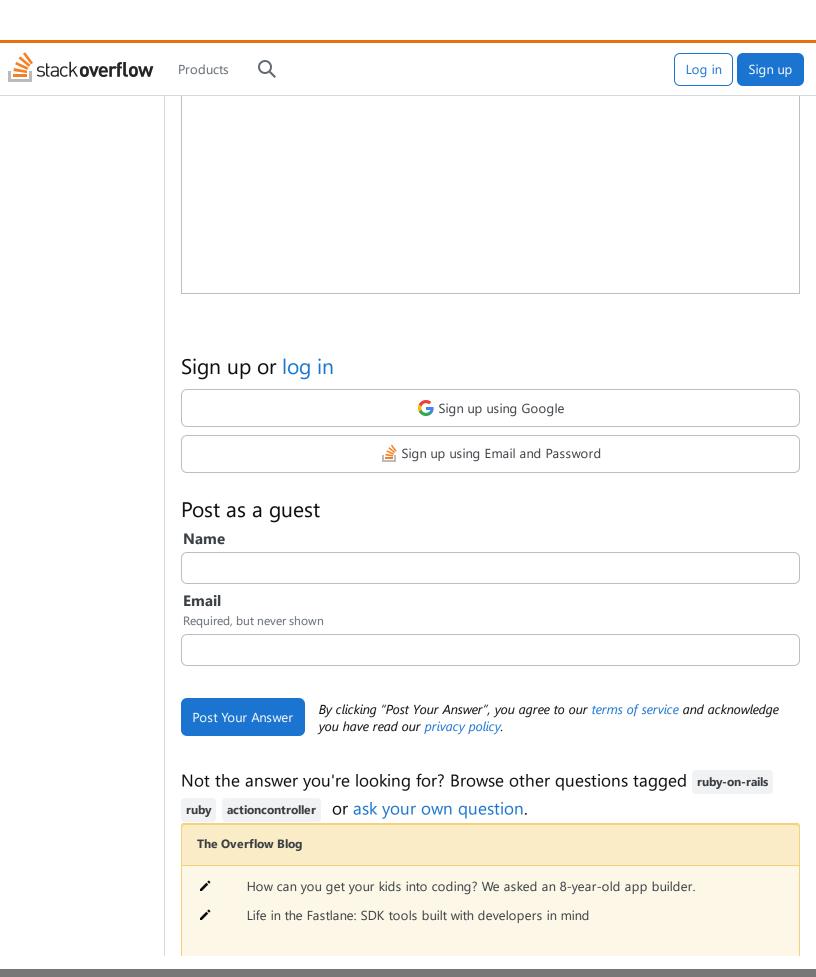


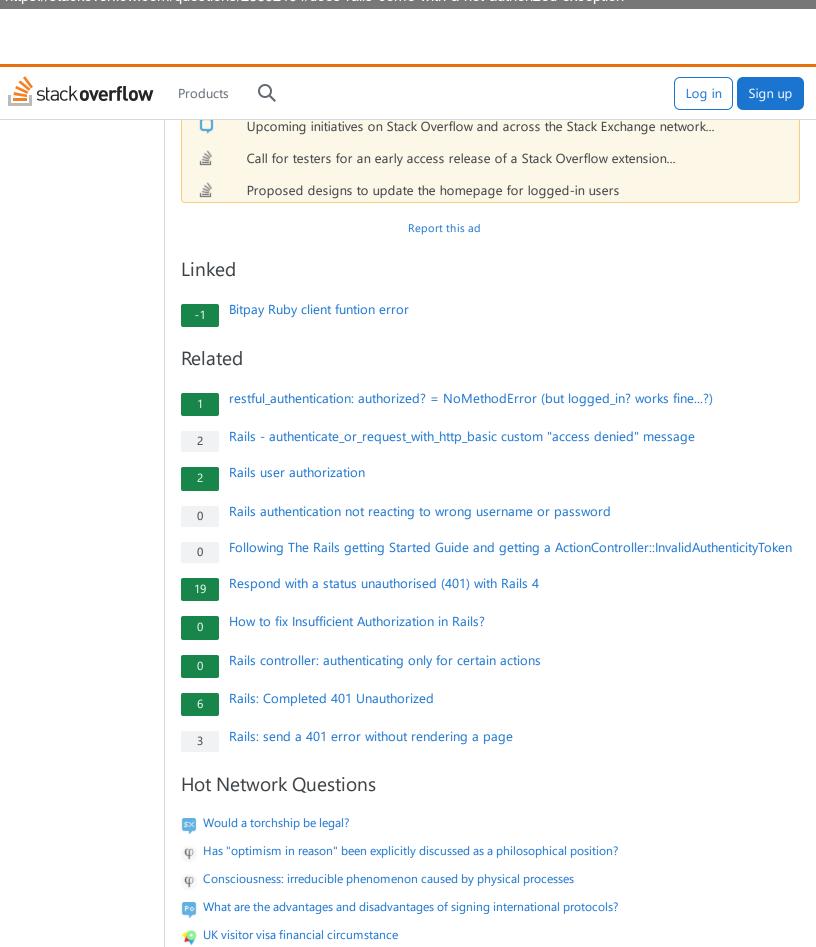
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