

Rails Authentication

Yutthana + Rossukhon

Growth Session #18 - September 13-14 2018

- Learning how Warden works in depth.
- Learning how Devise works in depth.
- Build a simple app to demonstrate and to get better understanding of the authentication in Warden and Devise.

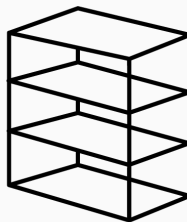
Warden

- Authentication for Rack-based Ruby application

Devise

- Authentication for Rails application
- Build on top of Warden

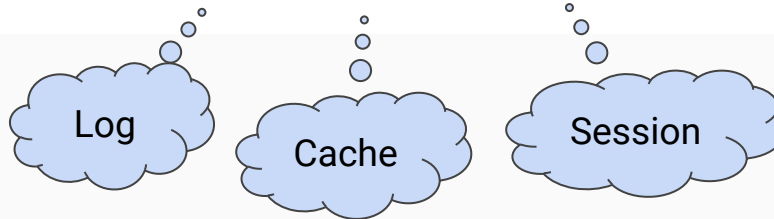
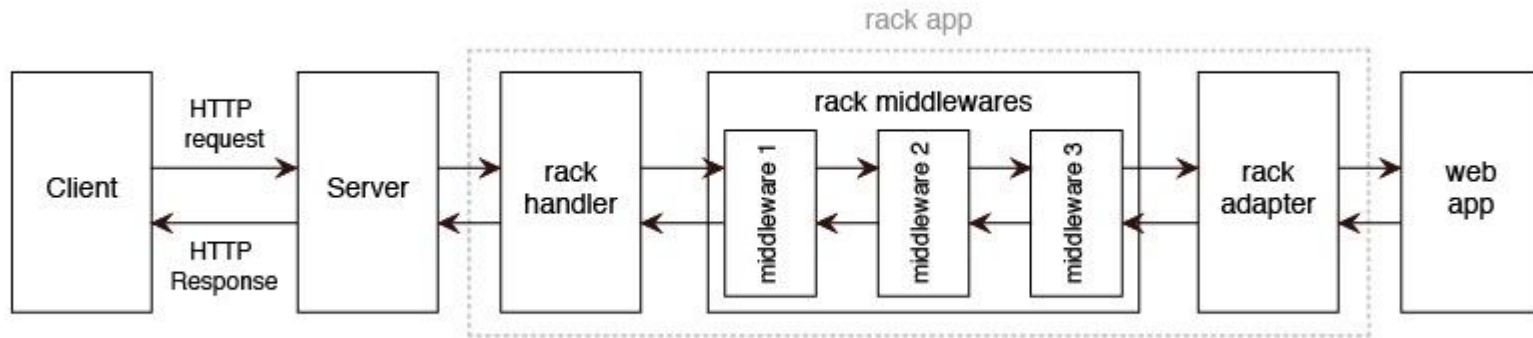
Rack - Ruby Web Server Interface



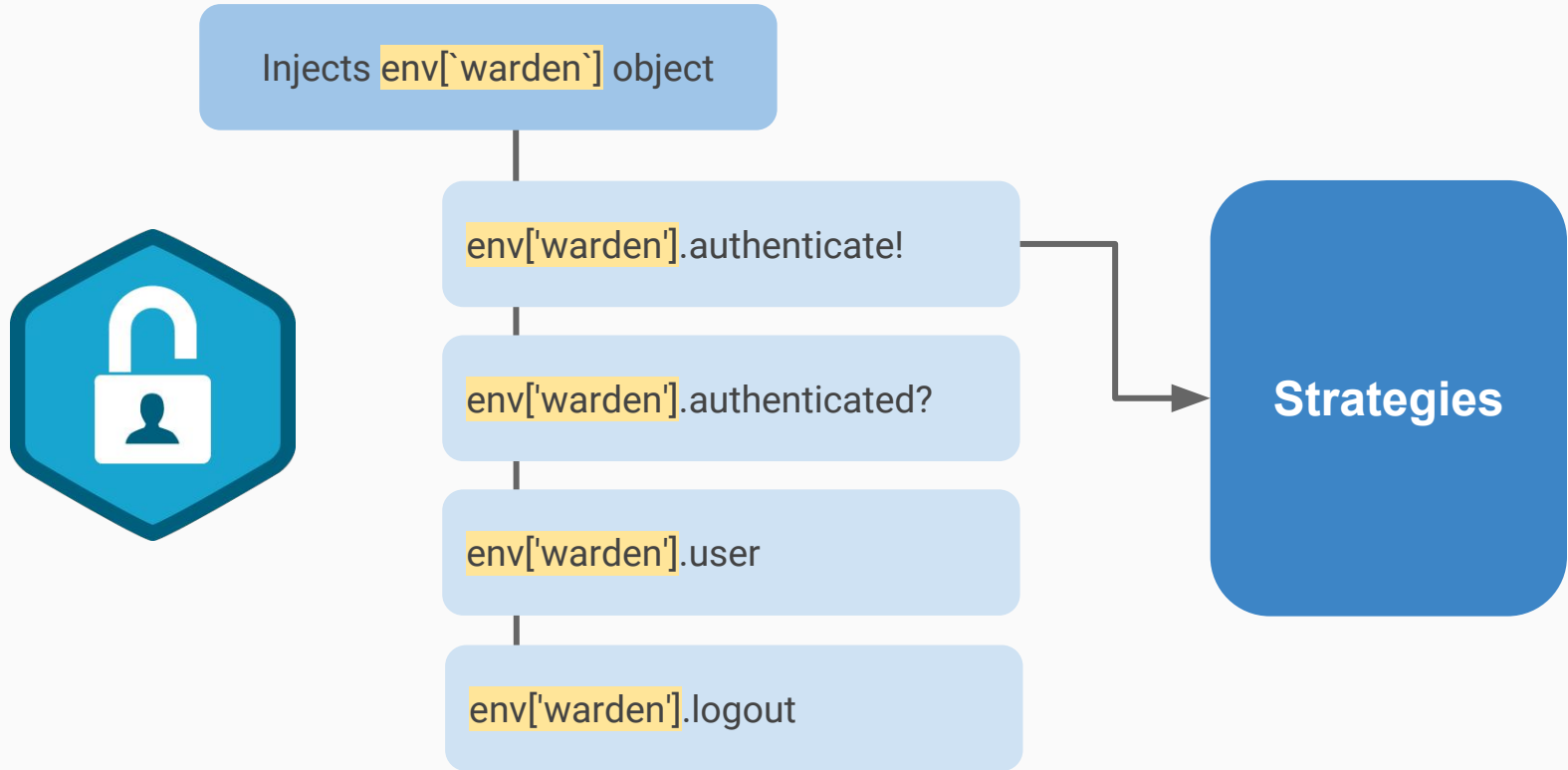
rack
powers web applications

```
● ● ●  
  
# my_rack_app.rb  
  
require 'rack'  
  
app = Proc.new do |env|  
  ['200', {'Content-Type' => 'text/html'}, ['Hello Rack.']]  
end  
  
Rack::Handler::WEBrick.run app
```

Rack - Middleware



Warden - Intro




Warden - Rack middleware setup



```
# config/initializer/warden.rb
Rails.application.config.middleware.use Warden::Manager do |manager|
  manager.default_strategies :password
  manager.failure_app = lambda { |env| SessionsController.action(:new).call(env) }
end
```

Warden - Session serialization declaration



```
Warden::Manager.serialize_into_session do |user|  
  user.id  
end  
  
Warden::Manager.serialize_from_session do |id|  
  User.find_by(id: id)  
end
```


Warden - Strategies declaration

valid?

Guard condition if this strategy should run or not

authenticate!

A logic for the authentication


- success!
- fail!

```
Warden::Strategies.add(:password) do
  def valid?
    params['email'] && params['password']
  end

  def authenticate!
    user = User.find_by(email: params['email'])

    if user && user.authenticate(params['password'])
      success! user
    else
      fail! 'Invalid email or password!'
    end
  end
end
```

Warden - Strategies declaration



```
Warden::Strategies.add(:password) do
  def valid?
    params['username'] || params['password']
  end

  def authenticate!
    user = User.find_by(username: params['username'],
                        password: params['password'])
    user.nil? ? fail!("Could not log in") : success!(user)
  end
end
```

Warden - Callbacks

- after_set_user
- after_authentication
- after_fetch

- before_failure
- after_failed_fetch
- before_logout
- on_request

```
# Deny user access whenever their account is not active yet.
# We need this as hook to validate the user activity on each request
# and in case the user is using other strategies beside Devise ones.
Warden::Manager.after_set_user do |record, warden, options|
  if record && record.respond_to?(:active_for_authentication?) && !record.active_for_authentication?
    scope = options[:scope]
    warden.logout(scope)
    throw :warden, scope: scope, message: record.inactive_message
  end
end
```

DEMO →

What is Devise?

Devise is a flexible authentication solution for Rails based on Warden.

How Devise helps us with Authentication?

- While Warden is a very basic authentication underlying on Rack based application. Devise takes it the next step.
- When you use warden you must manually setup everything for your authentication logic. But Devise does NOT. It provides lots of authentication flows out of the box:
 - Sign up page.
 - Sign in page.
 - Sign out feature.
 - And the CRUD feature on the user model.

Integrating Devise

Add Devise gem

```
# Gemfile  
gem devise
```

Install devise through generator

```
rails generate devise:install
```

Set the action mailer url in development environment

```
# config/environments/development.rb  
config.action_mailer.default_url_options = { host: 'localhost', port: 3000 }
```

Integrating Devise

Make sure the app root path is exist

```
# routes.rb  
root to: home#index'
```

Generate Devise model

```
rails generate devise User  
bundle rake db:migrate
```

Generate Devise view if we need to override them

```
rails generate devise:views
```

Style the views as needed

DEMO →



It's good to deeply
know how things work
under the hood

Thanks!

Contact Nimbl3

hello@nimbl3.com

399 Sukhumvit Road, Interchange 21
Klongtoey nua, Wattana
Bangkok 10110

28C Stanley St,
Singapore 068737

20th Floor, Central Tower
28 Queen's Road
Central, Hong Kong

nimbl3.com

