●客製化 Devise

蘇介吾 2023/03/16

- 目的：除了可以註冊、登入、登出外，還要增加列表清單、查詢、修改的功能。順便加入快速新增假帳號的功能（Faker）。

1. 環境

```
$ rvm list known

$ rvm install 2.7.7

$ rvm use 2.7.7

$ rvm gemset create rails5281

$ rvm use 2.7.7@rails5281 --default

$ ruby -v   #2.7.7

$ rails -v   #5.2.8.1

$ rails _5.2.8.1_ new  devise3 -d mysql

cd devise3/

bundle lock --add-platform x86-mingw32 x86-mswin32 x64-mingw32 java
```

2. 安裝

```
$ vi Gemfile  #加入
=====================================
gem 'devise'
gem 'faker'
=====================================


$ bundle  #安裝套件


$ rails g devise:install  #安裝 Devise
=====================================
  create  config/initializers/devise.rb
  create  config/locales/devise.en.yml


Depending on your applications configuration some manual
setup may be required:


  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.


     * Required for all applications. *


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

```
      For example:


        root to: "home#index"


      * Not required for API-only Applications *
                        - 3 -

   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>


      * Not required for API-only Applications *


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


        rails g devise:views


      * Not required *

========================================
```

3. 設定

```
#讓 Devise 有寄信功能(歡迎信、忘記密碼)
$ vi config/environments/development.rb 和 production.rb   #2
個檔案都加入

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

========================================
```

```
$ rails g devise:views  #新增 Devise 視圖

====================================

      invoke   Devise::Generators::SharedViewsGenerator
      create      app/views/devise/shared
      create
 app/views/devise/shared/_error_messages.html.erb
      create      app/views/devise/shared/_links.html.erb
      invoke   form_for
      create      app/views/devise/confirmations
      create      app/views/devise/confirmations/new.html.erb
      create      app/views/devise/passwords
      create      app/views/devise/passwords/edit.html.erb
      create      app/views/devise/passwords/new.html.erb
      create      app/views/devise/registrations
      create      app/views/devise/registrations/edit.html.erb
      create      app/views/devise/registrations/new.html.erb
      create      app/views/devise/sessions
      create      app/views/devise/sessions/new.html.erb
      create      app/views/devise/unlocks
      create      app/views/devise/unlocks/new.html.erb
      invoke   erb
      create      app/views/devise/mailer
      create
 app/views/devise/mailer/confirmation_instructions.html.erb
      create
 app/views/devise/mailer/email_changed.html.erb
      create
 app/views/devise/mailer/password_change.html.erb
      create
 app/views/devise/mailer/reset_password_instructions.html.erb
      create
 app/views/devise/mailer/unlock_instructions.html.erb

====================================
```

```
$ rails g devise admin    #新增 Devise 資料表 (admin)

======================================

  invoke  active_record
  create    db/migrate/20230315065206_devise_create_admins.rb
  create    app/models/admin.rb
  invoke    test_unit                - 5 -
  create      test/models/admin_test.rb
  create      test/fixtures/admins.yml
  insert    app/models/admin.rb
   route  devise_for :admins

======================================
```

4. 新增欄位 (account、name)

```
$ rails g migration AddDetailsToAdmin    #將欄位手動加入 admin 資
料表

$ vi db/migrate/20230316004602_add_detail_to_admins.rb    #手動
新增 add_column
======================================
class AddDetailToAdmins < ActiveRecord::Migration[5.2]
  def change
    add_column :admins, :name, :string
    add_column :admins, :account, :string
  end
end
======================================
```

5. 新增 admins 控制器/視圖

```
#用腳手架建立 admin MVC
$ rails g scaffold admins email account name password
password_confirmation

#快速新增假帳號
$ vi db/seeds.rb
=======================================
Faker::Config.locale = :en    #語系設定為英文


Admin.delete_all    #先將原本資料都清空


Admin.create(name: 'Patrick', account: 'afgn', email:
'a@a.a', password: '123456')    #建立第一個管理者帳號


20.times do |i|    #其他20個帳號就用隨機產生
  name = Faker::Name.name[3..15].gsub(/\W/,'')
  account = name.downcase
  domain = Faker::Internet.email.split('@')[1]
  email = account + "@" + domain
  Admin.create(
    name: name,
    #account: Faker::Alphanumeric.alpha(number: 5),
    email: email,
    #account: email.split('@')[0],
    account: account,
    password: 'pass@123'
    )
end
=======================================


$ rails db:create db:migrate db:seed    #一行搞定資料庫新增
```

```
========================================
Created database 'devise3_d'
Created database 'devise3_t'
== 20230315073340 DeviseCreateAdmins: migrating
==============================
-- create_table(:admins)
   -> 0.0578s
-- add_index(:admins, :email, {:unique=>true})
   -> 0.0529s
-- add_index(:admins, :reset_password_token, {:unique=>true})
   -> 0.0531s
== 20230315073340 DeviseCreateAdmins: migrated (0.1662s)
=====================

== 20230316004602 AddDetailToAdmins: migrating
==============================
-- add_column(:admins, :name, :string)
   -> 0.1262s
-- add_column(:admins, :account, :string, {:null=>false,
:unique=>true})
   -> 0.1251s
== 20230316004602 AddDetailToAdmins: migrated (0.2532s)
======================
========================================
```

6.修改路由

```
$ vi config/routes.rb

====================================

devise_for :admins, :controllers => { registrations: 'admins'
}
resources :admins, except: [:destroy]
root to: 'admins#index'

====================================
```

7. 允許使用帳號或Email登入 => 新增 login

```
$ vi app/controllers/application_controller.rb  #加入

====================================
class ApplicationController < ActionController::Base
  protect_from_forgery with: :exception

  before_action :authenticate_admin!
  before_action :configure_permitted_parameters, if:
 :devise_controller?

  protected
  def configure_permitted_parameters
    #devise_parameter_sanitizer.permit(:sign_up, keys:
[:name])
    devise_parameter_sanitizer.permit(:sign_up) { |u|
u.permit(:name, :account, :email, :password,
:password_confirmation) }
```

```
    devise_parameter_sanitizer.permit(:sign_in) { |u|
u.permit(:login, :password, :password_confirmation,
:remember_me) }
    devise_parameter_sanitizer.permit(:account_update) { |u|
u.permit(:name, :account, :email, :password_confirmation,
:current_password) }
  end
end
======================================


$ cat app/models/admin.rb
======================================
class Admin < ApplicationRecord
  attr_accessor :login
  # Include default devise modules. Others available are:
  # :confirmable, :lockable, :timeoutable, :trackable and
:omniauthable
  devise :database_authenticatable, :registerable,
:recoverable, :rememberable, :validatable


  def self.find_for_database_authentication warden_condition
    conditions = warden_condition.dup
    login = conditions.delete(:login)
    where(conditions).where(
      ["lower(account) = :value OR lower(email) = :value",
      { value: login.strip.downcase}]).first
  end
end
======================================


$ vi config/initializers/devise.rb  #加入
======================================
config.authentication_keys = [:login]
config.case_insensitive_keys = [:login]
config.strip_whitespace_keys = [:login]
```

```
=======================================
```

8. 修改視圖

```
$ vi app/views/devise/registrations/new.html.erb 和
edit.html.erb #都新增2個欄位
=======================================
  <div class="field">
    <%= f.label :name %><br />
    <%= f.text_field :name, autofocus: true %>
  </div>


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

=======================================


$ vi app/views/devise/sessions/new.html.erb  #把 email 改成
login
=======================================
  <div class="field">
    <%# f.label :email %><br />
    <%= f.label :login %><br />
    <%# f.email_field :email, autofocus: true, autocomplete:
"email" %>
    <%= f.text_field :login, autofocus: true %>
  </div>

=======================================
```

```erb
$ vi app/views/common/_nav.html.erb
====================================
<%= link_to 'Login', new_admin_session_path %> |
<%= link_to 'Logout', destroy_admin_session_path, method:
:delete %> |
<%= link_to '註冊', new_admin_registration_path %> |
<%= link_to 'List', admins_path %>
<br>
<%# "Hello,#{@admin.name)" if @admin.name? %>
<%# if @admin.name %>
<% if current_admin %>
  <p>Hello, <%= current_admin.name %></p>
<% else %>
  <p>Hello, Guest</p>
<% end %>
<hr>
====================================


$ vi app/views/layouts/application.html.erb
====================================
<!DOCTYPE html>
<html>
  <head>
    <title>Devise3</title>
    <%= csrf_meta_tags %>
    <%= csp_meta_tag %>

    <%= stylesheet_link_tag    'application', media: 'all',
'data-turbolinks-track': 'reload' %>
    <%= javascript_include_tag 'application', 'data-
turbolinks-track': 'reload' %>
  </head>

  <body>
    <%= render 'common/nav' %>
```

```erb
      <%= yield %>
  </body>
</html>
====================================

$ vi app/views/admins/index.html.erb
====================================
<p id="notice"><%= notice %></p>

<h1>Admins</h1>

<table width='100%''>
  <thead bgcolor='#CCC'>
    <tr>
      <th>Email</th>
      <th>Account</th>
      <th>Name</th>
      <th>Password</th>
      <!-- <th>Password confirmation</th> -->
      <th>Password remember</th>
      <th></th>
    </tr>
  </thead>

  <tbody>
    <% @admins.each do |admin| %>
      <tr>
        <td><%= admin.email %></td>
        <td><%= admin.account %></td>
        <td><%= admin.name %></td>
        <td><%= truncate(admin.password) %></td>
        <!-- <td><%= admin.password_confirmation %></td> -->
        <td><%= admin.remember_created_at ? "Y" : "N" %></td>
        <td><%= link_to 'Show', admin %> |
        <%= link_to 'Edit', edit_admin_path(admin) %>
```
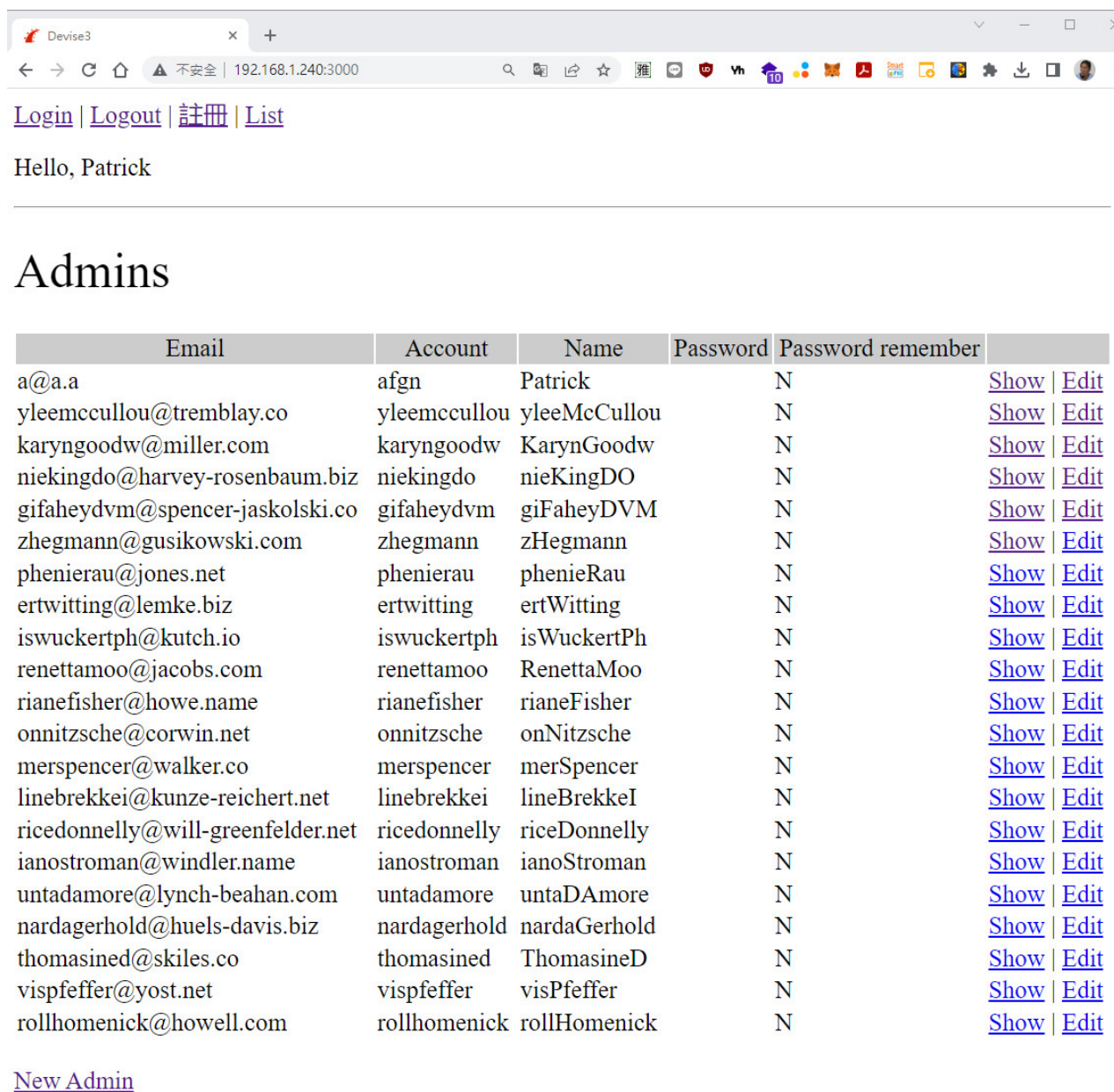
```erb
            <%# link_to 'Destroy', admin, method: :delete, data:
    { confirm: 'Are you sure?' } %></td>
        </tr>
      <% end %>
    </tbody>
</table>


<br>
<%= link_to "Sign up", new_admin_registration_path %><br />

========================================
```

9. 展示

```
$ rails s -b 0.0.0.0
```

- 用 Email 登入 (帳 a@a.a 密 123456)

- 用 Account 登入 (帳 afgn 密 123456)

- 兩種方式都成功！

Login | Logout | 註冊 | List

Hello, Patrick

Admins

Email	Account	Name	Password	Password remember		
a@a.a	afgn	Patrick		N	Show	Edit
yleemccullou@tremblay.co	yleemccullou	yleeMcCullou		N	Show	Edit
karyngoodw@miller.com	karyngoodw	KarynGoodw		N	Show	Edit
niekingdo@harvey-rosenbaum.biz	niekingdo	nieKingDO		N	Show	Edit
gifaheydvm@spencer-jaskolski.co	gifaheydvm	giFaheyDVM		N	Show	Edit
zhegmann@gusikowski.com	zhegmann	zHegmann		N	Show	Edit
phenierau@jones.net	phenierau	phenieRau		N	Show	Edit
ertwitting@lemke.biz	ertwitting	ertWitting		N	Show	Edit
iswuckertph@kutch.io	iswuckertph	isWuckertPh		N	Show	Edit
renettamoo@jacobs.com	renettamoo	RenettaMoo		N	Show	Edit
rianefisher@howe.name	rianefisher	rianeFisher		N	Show	Edit
onnitzsche@corwin.net	onnitzsche	onNitzsche		N	Show	Edit
merspencer@walker.co	merspencer	merSpencer		N	Show	Edit
linebrekkei@kunze-reichert.net	linebrekkei	lineBrekkeI		N	Show	Edit
ricedonnelly@will-greenfelder.net	ricedonnelly	riceDonnelly		N	Show	Edit
ianostroman@windler.name	ianostroman	ianoStroman		N	Show	Edit
untadamore@lynch-beahan.com	untadamore	untaDAmore		N	Show	Edit
nardagerhold@huels-davis.biz	nardagerhold	nardaGerhold		N	Show	Edit
thomasined@skiles.co	thomasined	ThomasineD		N	Show	Edit
vispfeffer@yost.net	vispfeffer	visPfeffer		N	Show	Edit
rollhomenick@howell.com	rollhomenick	rollHomenick		N	Show	Edit

New Admin

- 點擊『New Admin』新增管理者

Login | Logout | 註冊 | List

Hello, Patrick

New Admin

Email `b@b.b`
Account `bbbb`
Name `B B`
Password `123456`
Password confirmation `123456`
[Create Admin]
Back

- 送出 => 成功

Login | Logout | 註冊 | List

Hello, Patrick

Admin was successfully created.

Email: b@b.b

Account: bbbb

Name: B B

Password:

Password confirmation:

Edit | Back

```
 □ app/views/admins/index.html.erb:19
  Rendered admins/index.html.erb within layouts/application (9.4ms)
  Rendered common/_nav.html.erb (1.0ms)
Completed 200 OK in 309ms (Views: 303.9ms | ActiveRecord: 1.2ms)


Started GET "/admins/sign_up" for 192.168.1.126 at 2023-03-16 08:10:55 +0000
Processing by AdminsController#new as HTML
  Admin Load (1.5ms)  SELECT `admins`.* FROM `admins` WHERE `admins`.`id` = 1 ORDER BY `admins`.`id` ASC LIMIT 1
  □ /home/patrick/.rvm/gems/ruby-2.7.2/gems/activerecord-5.2.8.1/lib/active_record/log_subscriber.rb:98
  Rendering admins/new.html.erb within layouts/application
  Rendered admins/_form.html.erb (243.9ms)
  Rendered admins/new.html.erb within layouts/application (245.5ms)
  Rendered common/_nav.html.erb (0.9ms)
Completed 200 OK in 278ms (Views: 269.4ms | ActiveRecord: 1.5ms)


Started POST "/admins" for 192.168.1.126 at 2023-03-16 08:11:39 +0000
Processing by AdminsController#create as HTML
  Parameters: {"utf8"=>"✓", "authenticity_token"=>"jdZiQSabOh/mtpbF/3ZbfZtN4y7Sd7GNetIIvQE5JDDEKKzFNObjavQPanCWxE9
3TMir0rkLTUSpo4xhD4COVA==", "admin"=>{"email"=>"b@b.b", "account"=>"bbbb", "name"=>"B B", "password"=>"[FILTERED]"
, "password_confirmation"=>"[FILTERED]"}, "commit"=>"Create Admin"}
  Admin Load (0.8ms)  SELECT `admins`.* FROM `admins` WHERE `admins`.`id` = 1 ORDER BY `admins`.`id` ASC LIMIT 1
  □ /home/patrick/.rvm/gems/ruby-2.7.2/gems/activerecord-5.2.8.1/lib/active_record/log_subscriber.rb:98
   (0.4ms)  BEGIN
  □ app/controllers/admins_controller.rb:27
  Admin Exists (0.7ms)  SELECT  1 AS one FROM `admins` WHERE `admins`.`email` = BINARY 'b@b.b' LIMIT 1
  □ app/controllers/admins_controller.rb:27
  Admin Create (0.7ms)  INSERT INTO `admins` (`email`, `encrypted_password`, `created_at`, `updated_at`, `name`, `
account`) VALUES ('b@b.b', '$2a$12$yXh0tq4FB0PTH5HvRDoq0.xB5X65Fbk1kBW3NU4MVEIu03RXko16.', '2023-03-16 08:11:39',
'2023-03-16 08:11:39', 'B B', 'bbbb')
  □ app/controllers/admins_controller.rb:27
   (1.9ms)  COMMIT
  □ app/controllers/admins_controller.rb:27
Redirected to http://192.168.1.240:3000/admins/22
Completed 302 Found in 379ms (ActiveRecord: 4.5ms)


Started GET "/admins/22" for 192.168.1.126 at 2023-03-16 08:11:39 +0000
Processing by AdminsController#show as HTML
  Parameters: {"id"=>"22"}
  Admin Load (0.6ms)  SELECT `admins`.* FROM `admins` WHERE `admins`.`id` = 1 ORDER BY `admins`.`id` ASC LIMIT 1
  □ /home/patrick/.rvm/gems/ruby-2.7.2/gems/activerecord-5.2.8.1/lib/active_record/log_subscriber.rb:98
```

- 確定已新增

不安全 | 192.168.1.240:3000/admins

Login | Logout | 註冊 | List

Hello, Patrick

Admins

Email	Account	Name	Password	Password remember		
a@a.a	afgn	Patrick		N	Show	Edit
yleemccullou@tremblay.co	yleemccullou	yleeMcCullou		N	Show	Edit
karyngoodw@miller.com	karyngoodw	KarynGoodw		N	Show	Edit
niekingdo@harvey-rosenbaum.biz	niekingdo	nieKingDO		N	Show	Edit
gifaheydvm@spencer-jaskolski.co	gifaheydvm	giFaheyDVM		N	Show	Edit
zhegmann@gusikowski.com	zhegmann	zHegmann		N	Show	Edit
phenierau@jones.net	phenierau	phenieRau		N	Show	Edit
ertwitting@lemke.biz	ertwitting	ertWitting		N	Show	Edit
iswuckertph@kutch.io	iswuckertph	isWuckertPh		N	Show	Edit
renettamoo@jacobs.com	renettamoo	RenettaMoo		N	Show	Edit
rianefisher@howe.name	rianefisher	rianeFisher		N	Show	Edit
onnitzsche@corwin.net	onnitzsche	onNitzsche		N	Show	Edit
merspencer@walker.co	merspencer	merSpencer		N	Show	Edit
linebrekkei@kunze-reichert.net	linebrekkei	lineBrekkeI		N	Show	Edit
ricedonnelly@will-greenfelder.net	ricedonnelly	riceDonnelly		N	Show	Edit
ianostroman@windler.name	ianostroman	ianoStroman		N	Show	Edit
untadamore@lynch-beahan.com	untadamore	untaDAmore		N	Show	Edit
nardagerhold@huels-davis.biz	nardagerhold	nardaGerhold		N	Show	Edit
thomasined@skiles.co	thomasined	ThomasineD		N	Show	Edit
vispfeffer@yost.net	vispfeffer	visPfeffer		N	Show	Edit
rollhomenick@howell.com	rollhomenick	rollHomenick		N	Show	Edit
b@b.b	bbbb	B B		N	Show	Edit

Sign up

192.168.1.240:3000/admins/16

=END=