

●Bullet (檢查N+1查詢)

1. 配置

```
$ rails _5.2.8.1_ new n+1

$ cd n+1

$ rails db:migrate

$ rails g scaffold User name

$ rails g scaffold Order item price:integer user:references

vi app/models/order.rb #新增 belongs_to :user
vi app/models/user.rb  #新增 has_many :orders
```

2. 部屬 Bullet

```
$ vi Gemfile #在 gem 'rails' 後加入 gem 'bullet', group:
'development'

$ bundle

$ rails g bullet:install
```

3. 修改

```
vi app/views/users/index.html.erb #加入

=====

<td><%= user.orders.count %></td>

<td><%= user.orders.sum(&:price) %></td>

=====
```

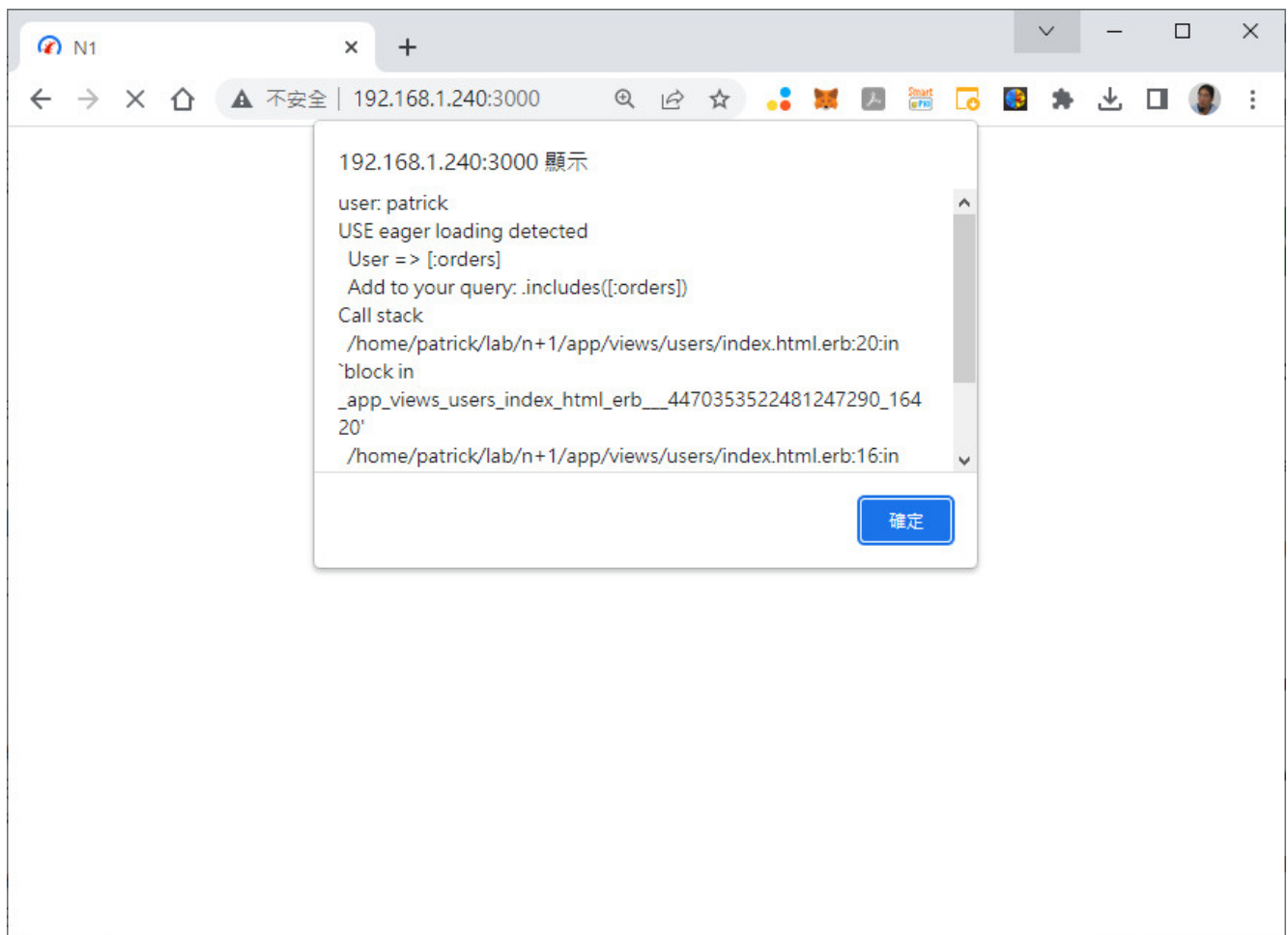
```
2 a/v/u/index.html.erb
/home/patrick/lab/n+1/
app/
  assets/
  channels/
  controllers/
  helpers/
  jobs/
  mailers/
  models/
  views/
    layouts/
    orders/
    users/
      form.html.erb
      _user.json.jbuilder
      edit.html.erb
      index.html.erb
      index.json.jbuilder
      new.html.erb
      show.html.erb
      show.json.jbuilder
bin/
config/
db/
lib/
log/
NERD | NORMAL | app/views/users/index.html.erb | eruby.html | 3% | 1: 1
"app/views/users/index.html.erb" 31L, 680C
```

4. 測試

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

打開瀏覽器 <http://localhost:3000>

- 修正前 => `@user = User.all`



N1

192.168.1.240:3000

不安全

Users

Name

Order

Count

Total

Price

A

2

250

Show

Edit

Destroy

B

1

300

Show

Edit

Destroy

C

1

400

Show

Edit

Destroy

D

0

0

Show

Edit

Destroy

E

0

0

Show

Edit

Destroy

New User

Bullet Warnings

N1

192.168.1.240:3000

不安全

Users

Name

Order

Count

Total

Price

A

2

250

Show

Edit

Destroy

B

1

300

Show

Edit

Destroy

C

1

400

Show

Edit

Destroy

D

0

0

Show

Edit

Destroy

E

0

0

Show

Edit

Destroy

▼ Bullet Warnings

user: patrick USE eager loading detected User => [:orders] Add to your query: .includes([:orders])

See 'Uniform Notifier' in JS Console for Stacktrace

```
users_controller.rb (~/.lab/n+1/app/controllers) - VIM
2 a/c/users_controller.rb
/home/patrick/lab/n+1/
app/
  assets/
  channels/
  controllers/
    concerns/
      application_controller.rb
      orders_controller.rb
      users_controller.rb
  helpers/
  jobs/
  mailers/
  models/
  views/
bin/
config/
db/
lib/
log/
public/
storage/
test/
tmp/
vendor/
  config.ru
  Gemfile

1 class UsersController < ApplicationController
2   before_action :set_user, only: [:show, :edit, :update, :destroy]
3
4   # GET /users or /users.json
5   def index
6     # @users = User.all
7     @users = User.all.includes(:orders)
8   end
9
10  # GET /users/1 or /users/1.json
11  def show
12  end
13
14  # GET /users/new
15  def new
16    @user = User.new
17  end
18
19  # GET /users/1/edit
20  def edit
21  end
22
23  # POST /users or /users.json
24  def create
25    @user = User.new(user_params)
26  end
27 end
```

- 修正後 => `@user = User.all.includes(:orders)`

N1

192.168.1.240:3000

不安全

Users

Name	Order	Count	Total	Price
A	2		250	Show Edit Destroy
B	1		300	Show Edit Destroy
C	1		400	Show Edit Destroy
D	0		0	Show Edit Destroy
E	0		0	Show Edit Destroy

[New User](#)

= END =