

bcrypt, you may have to do so at this time. This sort of thing is a good application of technical sophistication (Box 1.2.) Note that the debug information in Figure 7.6 confirms the value of `params[:id]`:

```
---  
action: show  
controller: users  
id: '1'
```

This is why the code

```
User.find(params[:id])
```

in Listing 7.5 finds the user with id 1.

Exercises

Solutions to the exercises are available to all Rails Tutorial purchasers [here](#).

To see other people’s answers and to record your own, subscribe to the [Rails Tutorial course](#) or to the [Learn Enough All Access Bundle](#).

1. Using embedded Ruby, add the `created_at` and `updated_at` “magic column” attributes to the user show page from Listing 7.4.
2. Using embedded Ruby, add `Time.now` to the user show page. What happens when you refresh the browser?

7.1.3 Debugger

We saw in Section 7.1.2 how the information in the `debug` could help us understand what’s going on in our application, but there’s also a more direct way to get debugging information using the `byebug` gem (Listing 3.2). To see how it works, we just need to add a line consisting of `debugger` to our application, as shown in Listing 7.6.

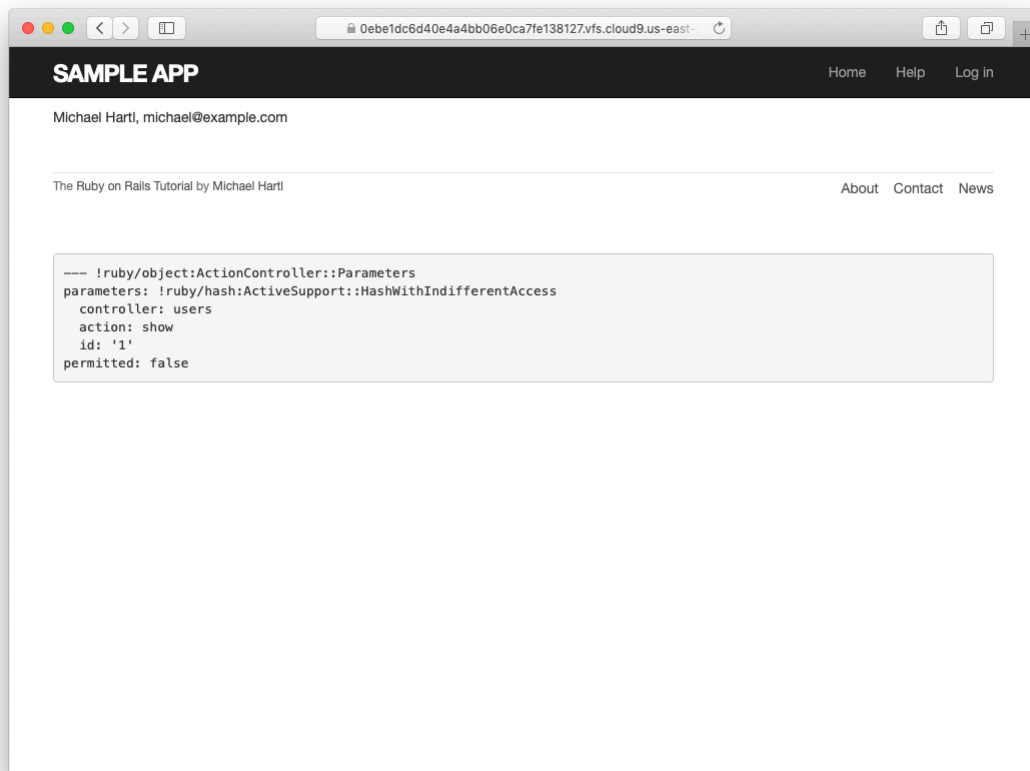


Figure 7.6: The user show page after adding a Users resource.

```

Processing by UsersController#show as HTML
Parameters: {"id"=>"1"}
User Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 1}, [{"LIMIT", 1}]
↳ app/controllers/users_controller.rb:4:in `show'
Return value is: nil

[1, 10] in /home/ubuntu/environment/sample_app/app/controllers/users_controller.rb
1: class UsersController < ApplicationController
2:
3:   def show
4:     @user = User.find(params[:id])
5:     debugger
=> 6:   end
7:
8:   def new
9:   end
10: end
(byebug) █

```

Figure 7.7: The **byebug** prompt in the Rails server.

Listing 7.6: The Users controller with a debugger.

app/controllers/users_controller.rb

```

class UsersController < ApplicationController

  def show
    @user = User.find(params[:id])
    debugger
  end

  def new
  end
end

```

Now, when we visit `/users/1`, the Rails server shows a **byebug** prompt (Figure 7.7):

```
(byebug)
```

We can treat **byebug** like a Rails console, issuing commands to figure out the state of the application:

```
(byebug) @user.name
"Michael Hartl"
(byebug) @user.email
"michael@example.com"
(byebug) params[:id]
"1"
```

To release the prompt and continue execution of the application, press Ctrl-D, then remove the **debugger** line from the **show** action ([Listing 7.7](#)).

Listing 7.7: The Users controller with the debugger line removed.

app/controllers/users_controller.rb

```
class UsersController < ApplicationController
  def show
    @user = User.find(params[:id])
  end

  def new
  end
end
```

Whenever you're confused about something in a Rails application, it's a good practice to put **debugger** close to the code you think might be causing the trouble. Inspecting the state of the system using **byebug** is a powerful method for tracking down application errors and interactively debugging your application.

Exercises

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1. With the **debugger** in the **show** action as in [Listing 7.6](#), hit /users/1. Use **puts** to display the value of the YAML form of the **params** hash. *Hint:* Refer to the relevant exercise in [Section 7.1.1](#). How does it compare to the debug information shown by the **debug** method in the site template?