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Chapter 8 Notes Login, Log Out

- 8.1 Sessions
  - o 8.1.1 Sessions Controller
    - HTTP is stateless meaning it has no way to remember a user's identity from page to page.
    - To combat this, we must use sessions
      - create sessions Controller
      - Sessions follow REST architecture

```
get 'login' => 'sessions#new'
post 'login' => 'sessions#create'
delete 'logout' => 'sessions#destroy'
```

- o 8.1.2 Login Form
  - Use form\_for (:session, url: login\_path)
- 8.1.3 Finding and Authenticating a User
  - :session is the key to a nested params hash, and is also a hash itself.
  - So params[:session] is equivalent to:

```
{session:{password: "foobar", email: "user@example.com" }}
```

- Remember, when we post to the login path, we create the session with user information stored in the session. To authenticate a user, we must access the user from the database and compare the information of the user with the information entered on the login form.
- We access the user from the database by email address using the find\_by method
- We then use the authenticate method to make sure the user from the database has the same password as the user logging in

## **LISTING 8.5**

- o 8.1.4 Render with Flash Message
  - If the password is incorrect, we need an error message. So we use flash object.

flash [:danger] = 'invalid email/password combination'

- Flash object is already styled via CSS from previous chapter.
- Problem is flash message persists for one request and re-rendering the page (as we are doing when the login fails) does not count as a request.
  - So flash message appears on the next page accessed after the rerendered login form. That page then counts as the request.
- o 8.1.5 Flash Test
  - To fix the flash issue we use flash.now, which is a variant of flash, used to display a flash message specifically on re-rendered pages.
  - Can develop a test to make sure flash appears only on re-rendered login page as in Listing 8.7
- 8.2 Logging In
  - o 8.2.1 log\_in Method
    - Temporary session cookie used. When session controller is created, so is SessionHelper. The helper is a module where you can put further methods for sessions such as the log\_in method written below.

```
# Logs in the given user.
def log_in(user)
   session[:user_id] = user.id
end
```

## o 8.2.2 Current User

 Create current\_user method so we can keep track of the current user's information on subsequent pages without having to constantly access the database. Can do:

```
def current_user
    if @current_user.nil?
      @current_user = User.find_by(id: session[:user_id])
      else
      @current_user
      end
end
```

• In Ruby, you can also use ||=

```
i.e. @current_user ||= User.find_by(id: session[:user_id])
```

- ||= is like a boolean version of +=
- If the current\_user is null then set it to
   User.find\_by(id: session[:user\_id])
   Otherwise just return the current user
- 8.2.3 Changing the Layout Links
  - Bootstrap stuff to change links depending on whether or not a user is logged in.
  - For example if a user is logged in, you're going to want a logout link.
  - Need a logged\_in boolean method to determine if there is a user logged in.

- Can determine logged\_in by finding out if current\_user is null. (Listing 8.15)
- 8.2.4 Testing Layout Changes
  - Can use fixtures to create hypothetical user data in order to test login.
  - In login tests, we define a setup method which refers to the fixture file (see Listing 8.20)
  - New test methods used:
    - assert\_redirected\_to @user
    - follow redirect!
    - assert select "a[href=?]", login path, count: 0
- o 8.2.5 Login Upon Signup
  - Call the log\_in method when creating the user, so that once a new user is created, he or she will be logged in (Listing 8.22).
- 8.3 Logging Out
  - Create log\_out method in sessions helper which deletes the user id from the session and sets the current user to null (See below).

```
# Logs out the current user.
def log_out
   session.delete(:user_id)
   @current_user = nil
end
```

 Define destroy in the sessions controller. It calls the log\_out method and redirects to the home page.

```
def destroy
   log_out
   redirect_to root_url
end
```