



Authentication / Authorization II

Sessions Controller

sessions_controller.rb %

```
class SessionsController < ApplicationController
  def new
    # Nothing to do here - go on to new.html.erb
    # (Login page)
  end

  def create
    name = params[:reviewer][:name]
    password = params[:reviewer][:password]

    reviewer = Reviewer.find_by name: name
    if(reviewer && reviewer.authenticate(password))
      session[:reviewer_id] = reviewer.id
      redirect_to root_path, notice: "Logged in successfully"
    else
      flash.now[:alert] = "Invalid username/password combination"
      render action: "new"
    end
  end

  def destroy
    reset_session
    redirect_to login_path, notice: "You have been logged out"
  end
end
```

views/sessions/new.html.erb

new.html.erb

✕

```
<h1>Login</h1>
```

```
<%= form_for(:reviewer, url: sessions_path) do |f| %>
```

```
  <div class="field">
```

```
    <%= f.label :name %><br/>
```

```
    <%= f.text_field :name %>
```

```
  </div>
```

```
<p/>
```

```
  <div class="field">
```

```
    <%= f.label :password %><br/>
```

```
    <%= f.password_field :password %>
```

```
  </div>
```

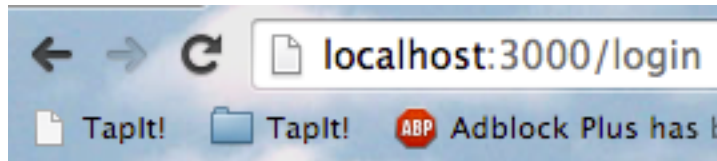
```
  <div class="actions">
```

```
    <%= f.submit "Login" %>
```

```
  </div>
```

```
<% end %>
```

Login page



Login

Name

Joe

Password

.....

Login

```
<form accept-charset="UTF-8" action="/sessions" method="post"><div style="display:none"><input name="utf8" type="hidden" value="&#x2713;" /><input name="authenticity_token" type="hidden" value="rb+lfzDJkSPsCiCY414+B1kfdvQt/BwmhXXF5XIPDw=" /></div>
```

```
<div class="field">
  <label for="reviewer_name">Name</label><br/>
  <input id="reviewer_name" name="reviewer[name]" type="text" />
</div>
```

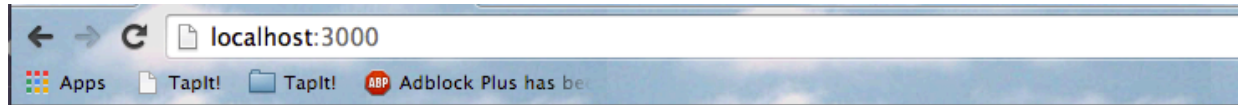
```
<p/>
```

```
<div class="field">
  <label for="reviewer_password">Password</label><br/>
  <input id="reviewer_password" name="reviewer[password]"
type="password" />
</div>
```

```
<div class="actions">
  <input name="commit" type="submit" value="Login" />
</div>
```

```
</form>
```

Logged In



Logged in successfully

Books

[My way or highway \(Me\)](#) [Edit](#) [Remove](#)

[The Rails Way \(The Other Guy\)](#) [Edit](#) [Remove](#)

[The Starving Students' Cookbook \(Dede Hall\)](#) [Edit](#) [Remove](#)

[The Vegetarian Family Cookbook \(Nava Atlas\)](#) [Edit](#) [Remove](#)

[Ember.js in Action \(Joachim Haagen Skeie\)](#) [Edit](#) [Remove](#)

[New Book](#)

Cookie in the browser

localhost 1 cookie

_i_reviewed_session

Name:	_i_reviewed_session
Content:	dno0dHFacUpETVNWQ2JmZlhlMnhwaXVreElicjFnM0hBdmlUR1FWUEt3Ykw5Um5kalJtaDIQK09COFFyN0JUVk9HQzA4eGcvQ0t0LytqNHBjRXRsdjVLSINCuu1yb2Mvd0ZNdTZLRUpHQzBjR3pkeFdDeUFseW9CRmltUmk5aFRrZWpTTHgzOVZsMzAvVlhQbVBnV21jOXhoWUVMsGZFNxE3aC9CUzdTTUNZOWkxTVh4V3FWZzEzZFlickY4djN4SXA5b0ZEN0E3THIWNVVZWkpmQWhrNGdhL21Fd1pGZTVNOGplcXVDYVI2NnAvQVZdHgZMWVSNk1lVmZjQkFOcWZKNENTMXd1RzAzMTImR250VGN1cEE9PS0tRG9ES1ZWc0NxbzEzNGIPVTNXTU0zUT09--88f02fd8829dc1d6e25a70b5981396c76540711c
Domain:	localhost
Path:	/
Send for:	Any kind of connection
Accessible to script:	No (HttpOnly)
Created:	Sunday, July 27, 2014 12:05:55 PM

Locking down the app

- We can have a `before_action` in the `ApplicationController` (from which all the other controllers inherit) that will make you login if you are not yet logged in
- But if everything is blocked off – how will we get to the login page? Hmm...
- Controllers can override `before_action` with `skip_before_action`

application_controller.rb

application_controller.rb ✕

```
class ApplicationController < ActionController::Base
  # Prevent CSRF attacks by raising an exception.
  # For APIs, you may want to use :null_session instead.
  protect_from_forgery with: :exception

  before_action :ensure_login

  protected
    def ensure_login
      redirect_to login_path unless session[:reviewer_id]
    end
end
```


sessions_controller.rb

sessions_controller.rb ✕

```
class SessionsController < ApplicationController
  skip_before_action :ensure_login,
    only: [:new, :create, :destroy]

  def new
  end

  def create
  end

  def destroy
    reset_session
    redirect_to login_path, notice: "You have been logged out"
  end
end
```

Logging out

- Let's add `logged_in?` and `current_user` methods to `ApplicationController` and make them available as helper methods to all controllers and views via `helper_method`
- (Adding them to `ApplicationHelper` would only make them available to the views, but not to controllers)
- Then, we can add logic to `application.html.erb` for logging out

application_controller.rb

application_controller.rb ✕

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

  before_action :ensure_login

  protected
  def ensure_login
    redirect_to login_path unless logged_in?
  end

  def logged_in?
    session[:reviewer_id]
  end

  def current_user
    @current_user ||= Reviewer.find(session[:reviewer_id])
  end

  helper_method :logged_in?, :current_user
end
```

views/layouts/application.html.erb

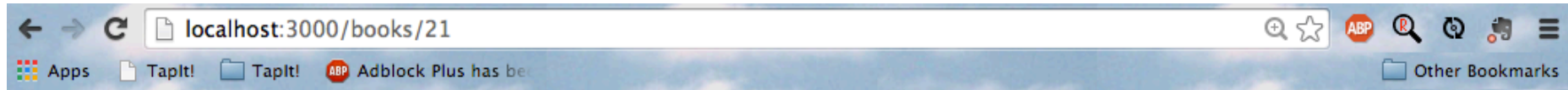
application.html.erb

```
<!DOCTYPE html>
<html>
<head>
  <title>IReviewed</title>
  <%= stylesheet_link_tag 'application',
    media: 'all', 'data-turbolinks-track' => true %>
  <%= javascript_include_tag 'application',
    'data-turbolinks-track' => true %>
  <%= csrf_meta_tags %>
</head>
<body>
  <% if logged_in? %>
    <div style='float: right;'>
      You are logged in as <%= current_user.name %> |
      <%= link_to "Logout", logout_path, data: {method: :delete} %>
    </div>
  <% end %>

  <% flash.each do |key, value| %>
    <%= content_tag :p, value, id: key %>
  <% end %>

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

views/layouts/application.html.erb



You are logged in as Jim | [Logout](#)

My way or highway (Me) [Edit](#)

Fascinating (about 12 hours ago) [Delete](#)

This book is simply amazing!

Wow (about 12 hours ago) [Delete](#)

This guy is so full of himself... :)

Title

Authorization

- We have implemented basic *Authentication*, but this still does nothing for our *Authorization*
- Anybody who logs into the system can edit anyone else's books and notes?!
- **SOLUTION:** We can go back to the `BooksController` and scope things down based on the `current_user`

Authorization – index, new, create

```
def index
  @books = current_user.books.all
end

def new
  @book = current_user.books.new
end

def create
  @book = current_user.books.new(book_params)

  respond_to do |format|
    format.html
  end
end
```

Authorization – the other actions

```
def show  
end
```

```
def edit  
end
```

```
def update  
end
```

```
def destroy  
end
```

```
private
```

```
# before_action :set_book, only: [:show, :edit, :update, :destroy]
```

```
def set_book
```

```
  @book = current_user.books.find(params[:id])
```

```
end
```


Authorization

Books

You are logged in as Jim | [Logout](#)

[The Rails Way \(The Other Guy\)](#) [Edit](#) [Remove](#)

[The Starving Students' Cookbook \(Dede Hall\)](#) [Edit](#) [Remove](#)

[The Vegetarian Family Cookbook \(Nava Atlas\)](#) [Edit](#) [Remove](#)

[New Book](#)

Authorization

Books

You are logged in as Joe | [Logout](#)

[My way or highway \(Me\)](#) [Edit](#) [Remove](#)

[Ember.js in Action \(Joachim Haagen Skeie\)](#) [Edit](#) [Remove](#)

[New Book](#)