Laboratorio de Computación IV



Repaso

- Validaciones.
 - save vs save!
- Partials.
- Layouts.
- Flash messages.
- Devise Gem.

- Comencemos con la misma BD
 - Ya veremos mas adelante que esto se puede automatizar

```
$ bin/rails console
> User.delete_all
    SQL (182.3ms)    DELETE FROM "users"
=> 1
> User.count
    (0.3ms)    SELECT COUNT(*) FROM "users"
=> 0
> Article.delete_all
...
> Article.count
    (0.3ms)    SELECT COUNT(*) FROM "articles"
=> 0
```

```
> Article.new({title: 'First Post', text: 'Hi'}).save!
...
> Article.new({title: 'Second Post', text: 'Ho'}).save!
...
> Article.new({title: 'Third Post', text: 'Hu'}).save!
```

- Vayan a http://localhost:3000/users/sign_up y creen dos usuario
 - usr1@test.com
 - usr2@test.com

• ¿Cómo se guardan las relaciones (1-1 y 1-N) en una BD relacional?

cuentas

id	id_titular	saldo
1	1	\$1.500,00
2	15	\$300.000,00
3	23	\$12,50

titulares

id	nombre	
1	"Juan Perez"	
15	"Jose Julio"	
23	"Anastacio Ponce"	

- Queremos que nuestros artículos tengan un autor
 - Crear una migration para agregar la columna de id de usuario a la tabla de artículos.
 - Indicarle al modelo (ActiveRecord) que existe esa relación.

Crear la migration

```
$ bin/rails generate migration AddAuthorToArticles author:references
invoke active_record
create db/migrate/20150509203054_add_author_to_articles.rb
```

```
$ cat db/migrate/20150509203054_add_author_to_articles.rb
class AddAuthorToArticles < ActiveRecord::Migration
  def change
    add_reference :articles, :author, index: true
  end
end</pre>
```

Ejecutemos la migration

Veamos que se modificó en nuestro schema

```
$ git diff db/schema.rb
-ActiveRecord::Schema.define(version: 20150503182243) do
+ActiveRecord::Schema.define(version: 20150509203054) do
  create table "articles", force: true do |t|
    t.string "title"
    t.text "text"
    t.datetime "created at"
    t.datetime "updated at"
 t.integer "author id"
  end
+ add index "articles", ["author id"], name:
"index articles on author id"
```

En una nueva consola

```
> article = Article.first
  Article Load (0.4ms) SELECT "articles".* FROM "articles"
  ORDER BY "articles"."id" ASC LIMIT 1
  => #<Article id: 10, title: "First Post", text: "Hi",
  created_at: "2015-05-09 20:00:51", updated_at: "2015-05-09
  20:00:51", author_id: nil>
    article.author
  NoMethodError: undefined method `author' for
  #<Article:0x000000041a3840>
```

 Nos falta indicarle al modelo que existe una relación con la clase `User`

 Nota: Si la relación se llamara `user` no necesitaríamos especificar la clase.

En una consola

Asignemos un autor al artículo

```
> usr1 = User.where({email: 'usr1@test.com'}).first
 User Load (0.5ms) SELECT "users".* FROM "users" WHERE
"users"."email" = 'usr1@test.com' ORDER BY "users"."id" ASC
T.TMTT 1
=> #<User id: 3, email: "usr1@test.com",...>
> article.author = usr1
=> #<User id: 3, email: "usr1@test.com",...>
> article.save!
  (0.2ms) begin transaction
 SQL (1.4ms) UPDATE "articles" SET "author id" = ?,
"updated at" = ? WHERE "articles"."id" = 10 [["author id",
3], ["updated at", "2015-05-09 20:53:12.487093"]]
  (201.4ms) commit transaction
=> true
```

Asignemos un autor a todos los artículos

```
> Article.all.each do | article |
> article.author = usr1
?> article.save!
?> end
 Article Load (0.5ms) SELECT "articles".* FROM "articles"
  (0.1ms) begin transaction
  (0.1ms) commit transaction
  (0.1ms) begin transaction
  SQL (1.1ms) UPDATE "articles" SET "author id" = ?...
  (204.3ms) commit transaction
  (0.1ms) begin transaction
  SQL (1.2ms) UPDATE "articles" SET "author id" = ?...
   (204.1ms) commit transaction
=> [
#<Article id: 10, title: "First Post",..., author id: 3>,
#<Article id: 11, title: "Second Post",..., author_id: 3>,
#<Article id: 12, title: "Third Post",..., author id: 3>]
```

· Visualicemos el autor relacionado al artículo

```
app/views/articles/show.html.erb
<h1>
 <%= @article.title %>
</h1>
< h3 >
 By <%= @article.author.email %>
</h3>
>
  <strong>Text:</strong>
  <%= @article.text %>
```

 Nos falta asociar al usuario logueado al artículo al crearlo

```
app/controllers/articles controller.rb
class ArticlesController < ApplicationController</pre>
  skip before action :authenticate user!, only: [:index]
    def create
      @article = Article.new(article params)
      @article.author = current user
      begin
        @article.save!
```

Vayamos a una consola de BD

```
$ bin/rails dbconsole
sqlite> select * from articles;
10 | First Post | Hi | 2015-05-09 22:06:03.139767 | 2015-05-09
22:06:03.139767|3
11 | Second Post | Ho | 2015-05-09 22:07:32.559730 | 2015-05-09
22:07:32.559730|3
12 | Third Post | Hu | 2015-05-09 22:07:53.091840 | 2015-05-09
22:07:53.091840|3
sqlite> update articles set author id=4 where title="First
Post";
sqlite> select * from articles;
10|First Post|Hi|2015-05-09 22:06:03.139767|2015-05-09
22:06:03.139767 | 4
11 | Second Post | Ho | 2015-05-09 22:07:32.559730 | 2015-05-09
22:07:32.559730|3
12 | Third Post | Hu | 2015-05-09 22:07:53.091840 | 2015-05-09
22:07:53.091840|3
```

Vayamos a una consola de rails

Agreguemos la gema

```
/Gemfile
..
gem 'rails_admin', '~> 0.6.7'
...
```

```
$ bundle install
```

```
$ rails generate rails_admin:install
...
```

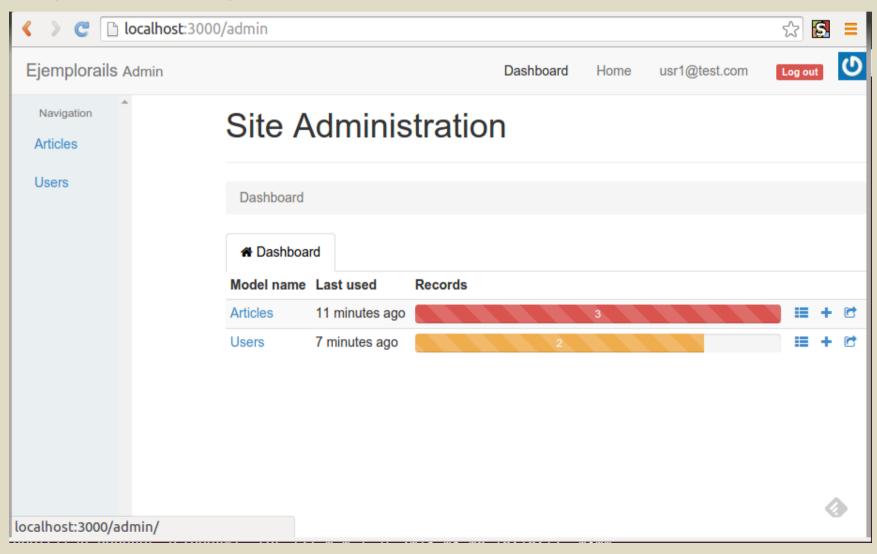
Modifiquemos la configuración

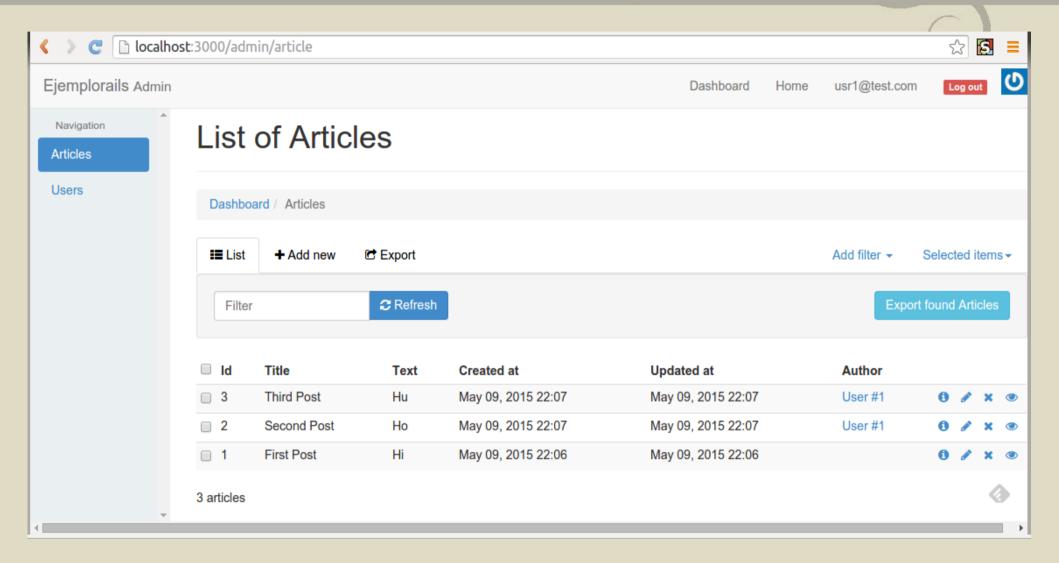
```
config/initializers/rails_admin.rb

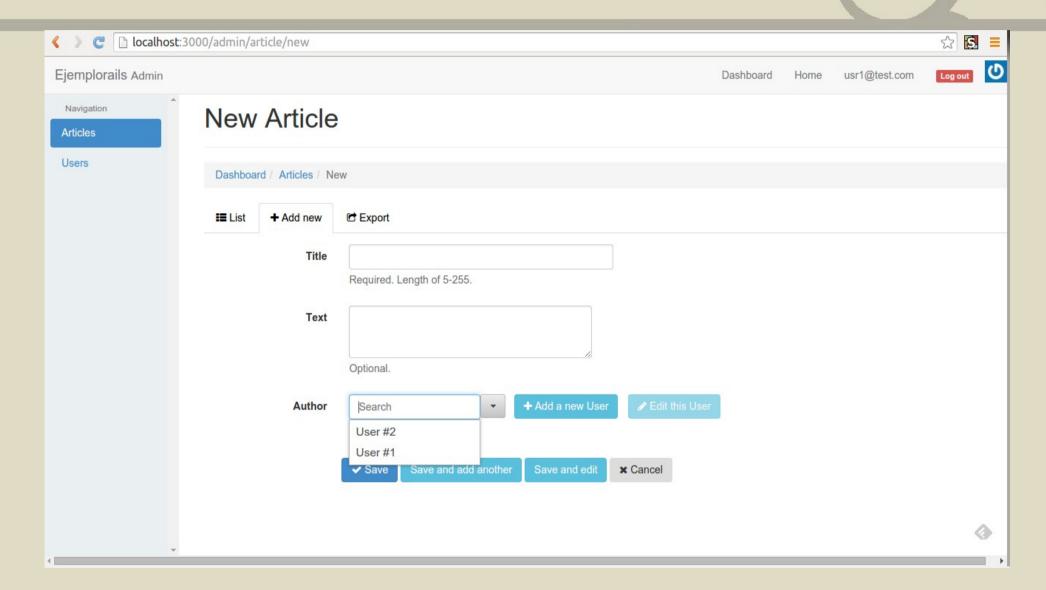
...
    ## == Devise ==
    config.authenticate_with do
        warden.authenticate! scope: :user
    end
    config.current_user_method(&:current_user)
...
```

```
$ bin/rails server
```

Vayan a http://localhost:3000/admin







Importante

- Saber manejar diversas herramientas
 - Backend de administración (ej. rails_admin)
 - Consola de Rails.
 - Consola de BD.

Tarea para el hogar

- Agregar una validación para que el autor de un artículo no pueda ser nulo.
- Familiarizarse con la interfaz de admin.