

Catstagram - Final Report

Simple Cat version of Instagram in Ruby on Rails - for Webrails class at HEIG-VD.

This is the final report. If you're not into reading documentation and prefer to test yourself, go directly to [Installation Indications](#)

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Introduction

This is a Ruby on Rails project for WebRails class at [HEIG-VD, Yverdon-les-Bains](#), Switzerland, done by [Eleonore d'Agostino](#) and [Valentin Minder](#) in Spring 2016.

This report will go through the planned specifications and management and check against the final project to check for consistency and project success. At the end you'll find a documentation how to install and use the website.

Specifications

(Cahier des charges)

General Description

Type site, Objectives

Catstagram is a simple version of Instagram for photos of cats only. It allows registered users to upload photos of cats, tag them and share them with all their friends, because sharing is caring ;3

The more you share, the more views you get! :D

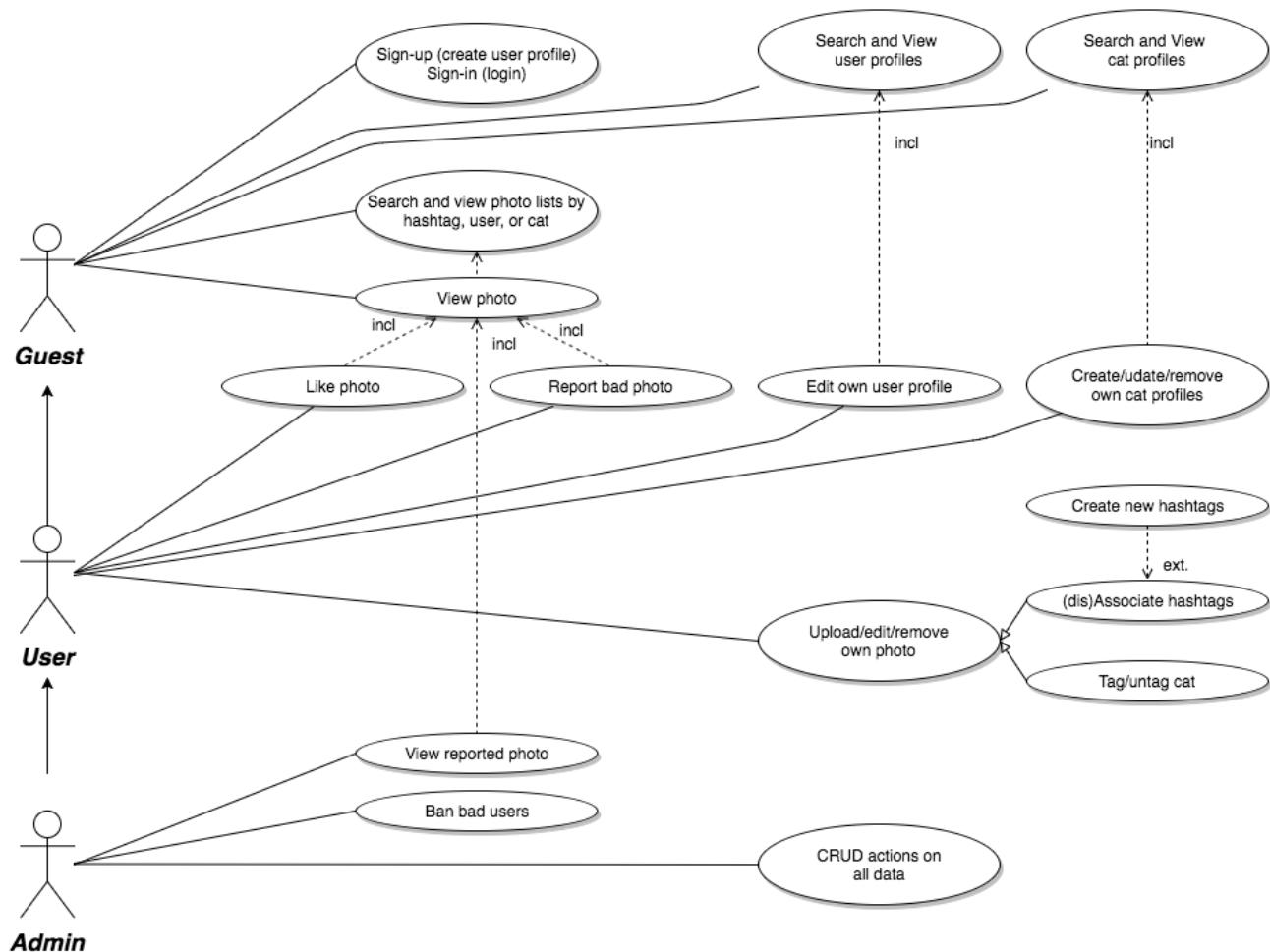
Guests can see photos of specific cats or uploaded by specific users! And cats by categories, of course!

Be cautious, if you upload anything other than a cat photo and you get reported too many times, the admins might ban you!

Use cases

(Cas d'utilisation)

See the following image:



A guest is a non-registered or non-logged visitor of the website. They are limited to VIEW capacities on everything, and have no right to EDIT. A guest may:

- view user and cat profile details
- search and view photos by hashtag, user or cat
- view photos (direct link to single photo), increasing the view count of the photo
- create an account with *sign-up*, or login with *sign-in*

A user is a registered and logged visitor of the website who doesn't have admin rights. A user has VIEW capabilities on everything, and EDIT capabilities on their own data. A user may:

- do everything a guest can
- edit their own user profile
- upload or edit photos on their own account. Uploading a photo includes optionally tagging cats and categories (hashtags). This includes creating new hashtags (categories), when those available do not suffice. Of course, they can upload photos of cats that don't belong to them.
- create or update cat profiles (of their own cats only)
- report bad photos, like those with dogs, increasing the report count of the photo
- like photos, increasing the like count of the photo

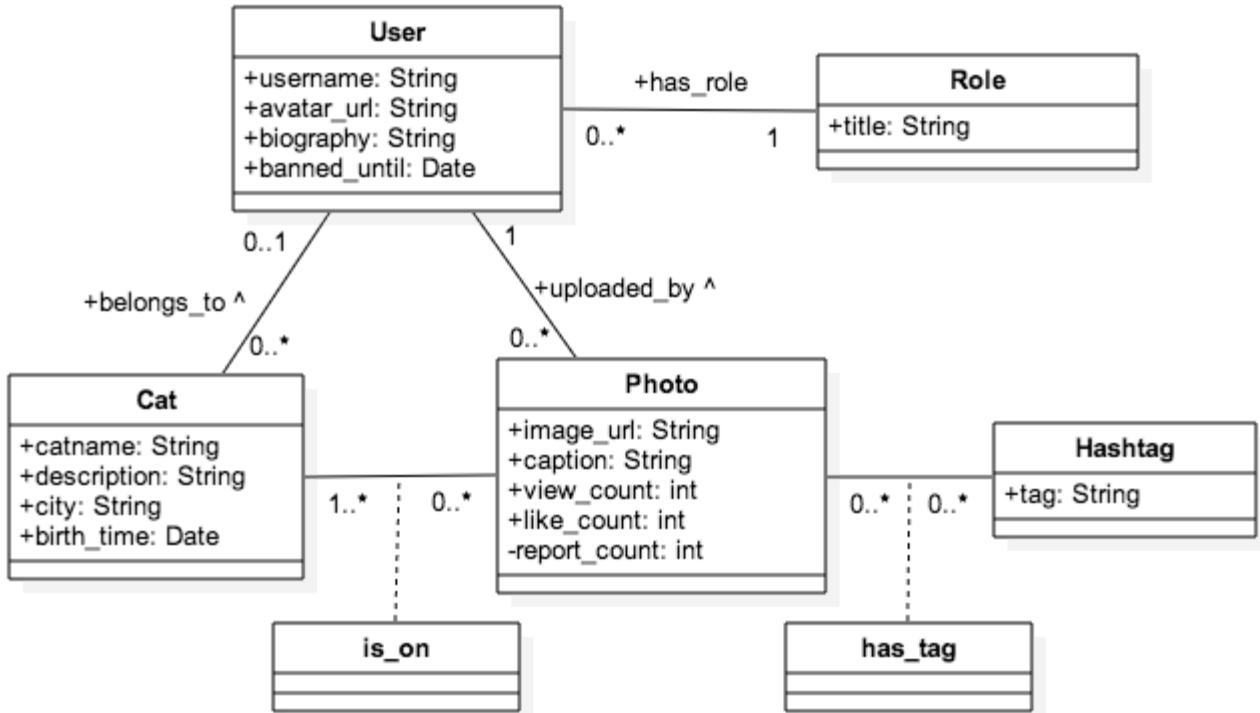
An admin is a registered and logged visitor of the website that has admin rights. An admin has the right to VIEW and EDIT on everything. An admin may:

- do everything a user can
- view the report count of a photo, receive some kind of alerts of new reports, and reset report counts
- decide what to do with reported photos, including:
 - remove reported photos
 - ban related user
 - remove related user (with all its photos)
- edit everything (CRUD actions), including the edition of any field/relation that doesn't have a special meaning (see "About Rights" section). It may also include ban users, when they were reported for bad behaviors (eg per email).

Note that views, likes and reports counts are not related to users. View counts reflects the number of times a photo was opened in a browser, even if it was done 10x by the same person. The same goes with like and reports, but those are only available for logged users. This system is open to abuse but it allows for a simpler system, otherwise it would require a lot more relations and be more complex.

Database schema

Their is the conceptual schema:



The relational schema is obvious from the conceptual one, or see the `schema.yml` file, and is reproduced here.

Models:

```
User(username, avatar_url, biography, banned_until)
Cat(catname, description, city, birth_time, user_id)
Photo(image_url, caption, view_count, like_count, report_count, uploaded_by)
Hashtag(tag)
Role(role)
```

Relations

```
is_on(cat_id, photo_id)
has_tag(photo_id, tag_id)
has_role(user_id, role_id)
```

Constraints

```
Cat.user_id references User.id, can be null
Photo.user_id references User.id, can't be null
```

```
is_on.cat_id references Cat.id
is_on.photo_id references Photo_id
has_tag.photo_id references Photo_id
has_tag.tag_id references Hashtag.id
has_role.user_id references User.id
has_role.tag_is references Hashtag.id
```

All models have `id`, `created_at` and `updated_at`.

A user is a registered human visitor that may have some role (and admin rights). Fields generated by Devise for account creation and authentication are not shown (such as login/password), as well as fields handled by Ruby by default (such as `created_at`). Users own cats and upload photos (therefore cats belongs to their user owner, and photos are uploaded by users).

Cats are tagged on photos, and at least one cat must be tagged on every photo. If the cat is unknown, a special entity called the "Chanonyme" (Catnonymous) is tagged instead. If the cat becomes known, the owner of the photo or the admin may change the tag.

Cats may not have an owner. In that case, they are only editable by admins, and admin may assign them an owner. Such "non-owned cat" may be merged into an owned cat by the admin (the non-owned cat profile is destroyed and all its tag on photos are forwarded to the owned cat).

Hashtags are similar to categories, where any photo may belong to any number of hashtags (from 0 to N).

Permissions and Rights

The following fields are set once and forever, and cannot be edited, even by an admin:

- `id`
- `created_at`
- `updated_at`

All the counts fields cannot be edited, even by an admin. They are set to 0 by default and incremented automatically when the related actions are performed. However, admins may reset the report count to 0 when handling reports.

Admins may set the `banned_until` field to ban a user (otherwise this field is left blank). Users cannot connect until the end of the ban period.

In all entities, there is at least one field that is mandatory. All the others are optional (or they have special meaning, explained before)

- `username`
- `title`
- `catname`
- `image_url`
- `tag`

Users may add/edit/remove all **other** data:

- in their profile (`username, avatar_url, biography`)
- in their cats' profile (`catname, city, description, birth_time`)
- in a photo they uploaded (`caption, cats tagged, hashtags tagged`). They cannot change the image URL though. If a user wishes to change photos, they have to delete the current one and upload a new one, as likes/hashtags/cats tagged may not be relevant to the new photo.

Users may remove a photo they uploaded, a profile of a cat they own, or even their whole profile (deleting a user will delete all uploaded photos, but cats will remain, without an owner).

As the admin has CRUD rights on everything, they can do everything a user can on all users' data. Moreover, they have special CRUD rights (in that sense, edit means all CRUD actions)

- They can set the `banned_until` field and reset the `report_count` field
- A cat without an owner is only editable by an admin

- They may assign cats to an owner, or remove ownership
- They may assign roles
- They may edit hashtags

Software structure

(*Structure du logiciel*)

We use Rails' standard MVC structure, with Models in `app/models`, Views as webpages in `app/views` and Controllers in `app/controllers`.

Guest actions:

- View the main page - `photos_controller#index_main`
- View all users - `users_controller#index`
- View user profiles - `users_controller#show`
- View all cats - `cats_controller#index`
- View cat profiles - `cats_controller#show`
- View all hashtags - `hashtags_controller#index`
- View all photos - `photos_controller#index`
- View photos by hashtag - `hashtags_controller#show`
- View photos by user - `users_controller#show`
- View photos by cat - `cats_controller#show`
- View photo via direct link (increments view count) `photos_controller#show`
- Search photos - `photos_controller#search`
- Create an account and update an account (*sign up*) - default
`Devise::RegistrationsController` and `registrations_controller` (for custom values of forms)
- Log in to/log out from an existing account (*sign in*) - default `Devise::SessionController`
- `users_controller#new` and `users_controller#create` are removed, because there are handled by devise sign-up.
- Get a 403 Unauthorized Error when accessing a forbidden page
`application_controller.rb` for `rescue_from CanCan::AccessDenied`

User Actions

- Edit their own profile - `users_controller#edit`
- Upload photos - `photos_controller#new`
- Edit their own photos - `photos_controller#edit`
- Delete their own photos - `photos_controller#destroy`
- Create a new cat profile - `cats_controller#new`
- Edit their own cat profiles - `cats_controller#edit`
- Delete their own cat profiles - `cats_controller#destroy`
- Delete their own profile - `users_controller#destroy`
- Report bad photos - `photos_controller#report`
- View the report count of a photo - `photos_controller#show`
- Like photos - `photos_controller#like`

Admin Actions

- Receive alerts of new reports - no controllers involved, just an alert & number in the navigation bar
- View new reports - `photos_controller#reported`
- Reset report counts - `photos_controller#reset`
- Remove reported photos - `photos_controller#destroy`
- Ban (and unban) user - `users_controller#ban` and `users_controller#ban_update`
- View banned users - `users_controller#banned`
- Remove user - `users_controller#destroy`
- Create empty new hashtag - `hashtags_controller#new`
- View editable list of all hashtags - `hashtags_controller#index_admin`
- Edit everything - `[NAME]s_controller#edit` and `users_controller#edit_roles` and `users_controller#save_roles`
- Destroy everything - `[NAME]s_controller#destroy`

Technical considerations

(*Implémentation*)

AJAX in practice

While our original plan was to allow optional tag auto-completion during photo upload, this proved to be beyond our skills even after extensive reading on the subject. It was already hard enough implementing dynamic text fields (pressing the "Add Tag" button adds a new text field whose content *will* be correctly saved), but we couldn't find how to work an optional drop-down in without using a `collection_select`, which... we can't type in.

So we went with our second idea.

The final AJAX we use allows us to *like* photos without reloading the page, and updates the like count on the photo accordingly, after which the *like* button disappears.

This is done via three files:

- In `app/views/photos/show.html.erb`, we set up the like button `link_to` with the option `remote: true`, along with a specific id so we can refer back to it. We also give an id to a span containing the `@photo.like_count` value.
- In `app/controllers/photos_controller.rb`, in the `like` function, we render the `update_likes.js` file after we finish the checks and modifications we wanted.
- In `app/views/photos/update_likes.js`, we have simple jQuery commands to hide the like button via its id, and replace the old `like_count` in the span with the new `like_count` value we computed in the controller.

Librairies used

The only major library we used was ImageMagick, for the purpose of automatically resizing images to create thumbnails. While we could have just used HTML tags to keep only one copy of each image and display, this requires downloading all the images at full size and slows down the page loading

considerably, especially for users with poor connections.

As is, when an image is uploaded, we automatically save a resized copy of it for use as thumbnails. This is done in the `app/uploaders/image_uploader.rb` file:

```
version :thumb do
  process :resize_to_fit => [100, 100]
end
```

This saves a thumbnail of the image. If our image URL is accessible at `photo.image_url`, the thumbnail URL is accessible at `photo.image_url.thumb.url`.

Like, Report & Reset Report of PHOTOS

Rights management

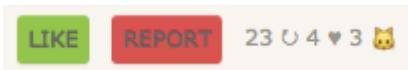
- Users receive the `:like_photo` and `:report_photo` rights, only on photos that are not theirs.
- Admin receive the `:reset_report_photo` rights, only on photos that are not theirs.
- These rights are sufficient for the views to display the correct buttons with
`if can? :like_photo, @photo`.
- These rights have to be handled carefully on the **photo controller**, because we want the following behavior: all these `<actions>` are not allowed on own photo but allowed on others (which non-admin user don't manage)
 - first, `skip_authorize_resource :only => [:like, :report, :reset]` to allow non-managing users to edit the photos
 - then, at the beginning of each `<action>` method (like, report, reset):
`authorize! <action>_photo, @photo` to allow only users with these rights.
However, managing users (typically owner) will still have the right, and we don't want a user to like his own photo.
 - moreover, it's necessary to discard the request `if current_user == @photo.user` as the owner user cannot perform these actions (but was not discarded by authorization as it is managing the photo!)

A user might still try to like his own picture by entering the direct link `/photos/1/like`. It won't be caught by authorization failure and won't create a 400 error, but will enter in the if branch we just defined and produce the following message.

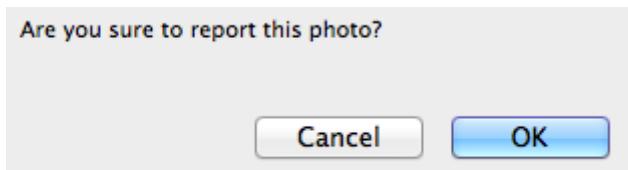
You can't like your own photo, you narcissistic self-obsessed user!

Buttons (on show view)

On the show view of a photo, two buttons allow a user to like or report the photo.

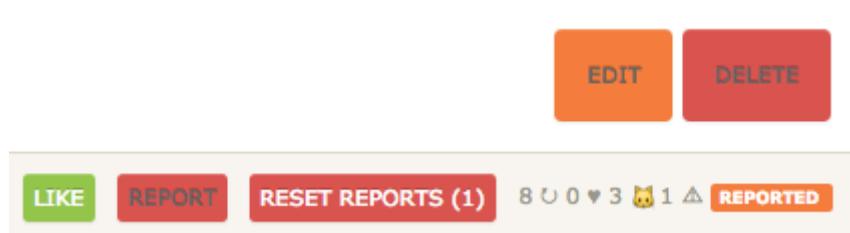


The report asks for confirmation.



As soon as a photo is reported, the admin view changes: there is an additionnal button "**New Reports!** (X)" in the navigation bar, where X is the number of reported photos, that redirect to /photos/reported . It displays the same interface as the photos index, but only photos with a report_count greater than 0 and ordered by this count, and then by date.

If the photo is reported, an admin has another option, to reset the report_count . It also asks for confirmation. Of course, it may also edit or delete the picture itself, or even go to the user's profile and delete or ban him, as an admin has managing rights.



Visibility (on index and show views)

The view count is incremented each time anyone loads the page (use refresh to force a new view).

On the index and show views, next to each photo are visible, for every visitor, the number of views (#V), likes (#L) and cats (#C), in the following form:

#V U #L ♥ #C

If the user can report the photo and the photo is reported (has a report_count #R greater than 0), then it will be:

#V U #L ♥ #C #R △

Moreover, if the user can manage the photo (it's a connected user owner of the photo or with admin rights), it will see an orange banner "REPORTED". It will be clearly visible that he should take action (edit or delete the photo).

On the index of photos, it will look like this:



And on the show view of a specific photo, like this (in the footer):



Banning users

An admin has the possibility to ban any user. On a user profile, click *Ban*

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH NEW REPORTS 1 ADMIN ACTIONS ADMIN

BAD

I am a bad guy and I'm banned...

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to bad (0):
No cats yet!

Photos uploaded by bad (1):

20 0 4 1 🐱
6 ▲ REPORTED

BAN EDIT ROLES EDIT DELETE

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Change the date (in the future to ban, in the past to unban), with calendar *on chrome*, with textfield on *Firefox*

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH NEW REPORTS 1 ADMIN ACTIONS ADMIN

Ban User bad

Enter the date until which the user must be banned (format: YYYY-MM-DD or DD/MM/YYYY). Dates before the current date or empty value will unban the user.

Ban until 21/06/2016 ⌂ ⌂ ⌂

June 2016 ⌂ ⌂ ⌂

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

[RETURN TO BAD'S PROFILE](#)

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Click *Ban*

Ban User bad

[RETURN TO BAD'S PROFILE](#)

Enter the date until which the user must be banned (format: YYYY-MM-DD or DD/MM/YYYY). Dates before the current date or empty value will unban the user.

Ban until

[BAN USER](#)

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And get confirmation.

User was successfully banned.

BAD

User is banned until 2016-06-21 00:00:00 UTC



I am a bad guy and I'm banned...

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to bad (0):
No cats yet!

Photos uploaded by bad (1):

20 0 0 1 6 REPORTED



[UNBAN](#) [EDIT ROLES](#) [EDIT](#) [DELETE](#)

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Same applies to unban: just select a date in the past and the user will be unbanned.

Banned users are clearly stated on their profile and the index view of users, but only to connected users (non-connected users will see nothing special). Admins have a special view to see only banned users.

Users on Catstagram

Banned Users (1):

BAD	0	0	1	0	BANNED
					

only when admin

- [SHOW HASHTAGS FOR ADMIN](#)
- [SHOW ROLES](#)
- [NEW ROLE](#)
- [EDIT MY ROLES](#)
- [VIEW REPORTED PHOTOS \(1\)](#)
- [VIEW BANNED USERS \(1\)](#)

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A banned user can connect but can't access any page on the website, he will see the following error and can only log out.

The screenshot shows a dark-themed web application interface. At the top, there is a navigation bar with the logo "Catstagram" and links for "PHOTOS", "CATS", "USERS", and "HASHTAGS". To the right of these links is a search bar containing the placeholder "Search everywhere...". Below the search bar is a button labeled "SEARCH". In the top right corner, there is a small dropdown menu with the text "BAD". The main content area has a pink header bar with the text "YOU'RE A BANNED USER. ACCESS IS DENIED.". Below this, there is a white text area containing the following message:
You're not authorized to see or access this resource, because your account is banned.
Banned until: 2016-07-11 00:00:00 UTC
You're connected as bad (bad@cat.com).
Ask an admin for more information if you believe this is an error.
If you have another account with different rights, you might want to Log out and log in again with the other account.

Layouts and partial views

All index views use the same layout (boxes of items) in a partial view `_grid`, with two parameters `@title` and `@collection`, where `collection` may be `photos`, `cats`, `users` or `hashtags`.

- This allows the usage of the same layout in the home screen (recent photos), the photos listing, the photos of a cat, the photos uploaded by a user and the result of photos.
- It also allows the presence of several partial views on the same page, as on the home screen (the most recent of all collection) or the search results.

Project Management

(*Gestion de projet*)

Initial Iterations plan

Week 8-9 (18.04. - 01.05.2016)

- basic structure of whole project (scaffold, db, basic usable layout...)
- no permissions: basic CRUD operations on everything

Week 10-11 (02.05. - 15.05.2016)

- account creation and authentication (with Devise)
- permissions (guest, user, admin) (with CanCanCan)
- basic upload form, with tagging cats and hashtags

Week 12-13-14 (16.05. - 05.06.2016)

- AJAX: autocomplete of hashtags in upload form
- AJAX: update of views/likes count asynchronous (by the user who viewed/liked the photos)
- pretty upload form
- clean and pretty layout (UI)
- report and presentations preparations

Week 15-16 (06.06 - 19.06.2016)

Oral presentations

Actual Management

Some elements were shifted around a little across iterations. Per example, we had planned to implement a "simple" like with a GET on `photos/:id/like`, that would reload the page, during the first iteration, but we decided to do it directly with AJAX in the third iteration.

Globally, this project was very well managed, all iterations are fully finished, and the team completed the work successfully and quite well balanced.

Project state

(Etat des lieux)

In general, the project is completed and follows the initial plan, and all main features have been implemented, including the banning and reporting features that were important for such a website.

Some details were not implemented, but they don't affect in any way the normal website workflow.

Not implemented:

- auto-completion of hashtags in upload form (see AJAX section)
- "merging" multiple ownerless cats, or an ownerless cat into an owned cat (removing duplicates)
- keeping track of creator of cats, especially for ownerless cast: once a cat is created ownerless, only the admin can take care of him. It's the same if someone abandons his own cat.
- catnonymous is not automatically tagged if no other cat is tagged (but it is still possible to tag him manually)

Known bugs / glitches:

- the upload form requires a refresh before working properly with the multiple tags. This is due to the javascript not being loaded, but we have not been able to discern why.

Conclusion

Globally this project was a success and we learned a lot of things. The project reached his goal both in terms of learning and following the planned specifications.

However, this was sometimes tedious to develop and debug web applications. But it was funny to deal with cats, as we love them a lot!

Annexes

Installation Indications

Prerequisites

You need on your system

- `ruby` (tested with 2.2.3p173)
- `rails` (tested with 4.2.5.1)
- `mysql`
- `imagemagick`. It comes by default on most linux distribution, otherwise use your favorite packet manager to get it, like on Linux `sudo apt-get install imagemagick` or on MacOS X `brew install imagemagick`

Configuration

It is necessary to set up `mysql` with a database `catstagram` first, and to check database connection settings in `config/database.yml`. Follow these steps

- Create a table named `Catstagram` in your mysql editor.
- Run `mysql`
- Move to the project directory: `cd Catstagram`
- Update the database config (host, user, password) of the file `Catstagram/config/database.yml` using your favorite editor (`nano`, `vim`, etc)
- Run the following command to install & update bundles: `bundle install; bundle update`
- Import the latest migrations: `rake db:migrate`
- Run the server: `rails s`

Launch

When you're done with database configuration, the project is production-ready, just type:

```
rails s
```

The server is now running and reachable at `server:port`, namely localhost:3000 if you run it on your own machine with default settings.

Fixtures

The project is furnished with fixtures that will populate the database with a few examples, create the necessary roles to see the website in action, and set up an admin account. To load the fixtures type:

```
rake db:fixtures:load
```

You may login as an admin with the following account:

```
email: admin@cat.com
login: admin1
```

The other accounts are simple users, all with `login: user12`:

```
paranoodle@cat.com (regular user)
val@cat.com (regular user)
bad@cat.com (banned users)
dev@cat.com (tester)
```

The banned user can log in but will have no rights on the website (even less than a non-connected user). The tester user will have all buttons visible, to test their action are forbidden.

Usage Manual

(*Mode d'emploi*)

In all screenshots:

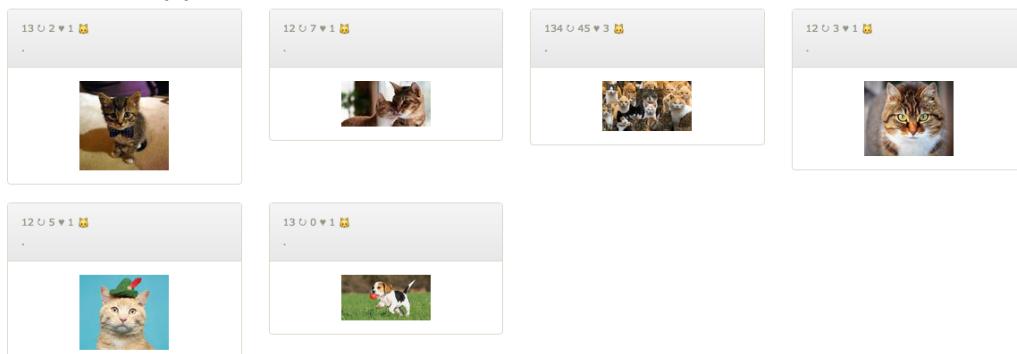
- **black**: comment, some explanations
- **red**: clickable items
- **blue**: pay attention to new item (appeared with the updated permission)

As Guest

- View the main page - `photos_controller#index_main`

Welcome on Catstagram !

Latest Photos (6):



Latest Hashtags (4):



Latest Cats (4):



Latest Users (4):

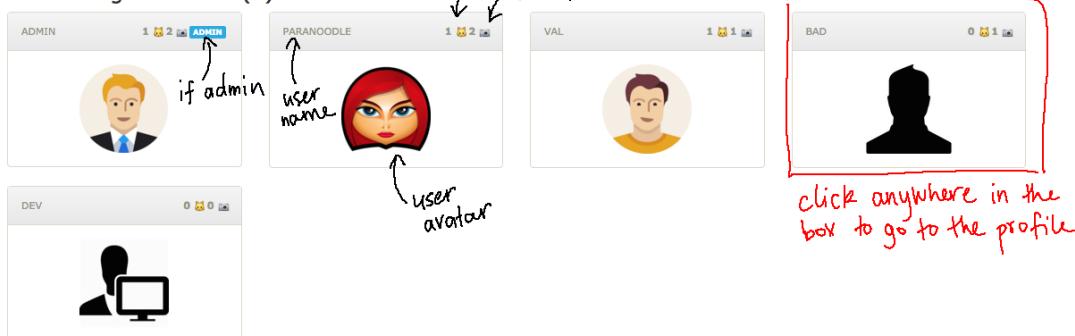

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- View all users - `users_controller#index`

Users on Catstagram

All Catstagram Users (5):


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- View user profiles - `users_controller#show`

ADMIN ADMIN

user name

if admin

biography

I am THE admin of Catstagram, I'm a cat lover.

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to admin (1):

CATNONYMOUS	2
	click to see cat

Photos uploaded by admin (2):

13 0 2 1	12 0 7 1
click to see photo	click to see photo

- View all cats - `cats_controller#index`

Cats on Catstagram

All Catstagram Cats (4):

CATNONYMOUS	2
	latest photo with this cat
?? FROM SWITZERLAND	2 OWNERLESS
	if ownerless

MICKEY FROM LAUSANNE, VD, CH	2
	cat name
	number of photos

click to go to cat profile

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- View cat profiles - `cats_controller#show`

HOUILLE

cat name

A nice black cat living in the countryside of Switzerland. cat description

From Attalens VD
Belongs to paranoode
Birth date 2016-06-10

Photos of this cat (2):

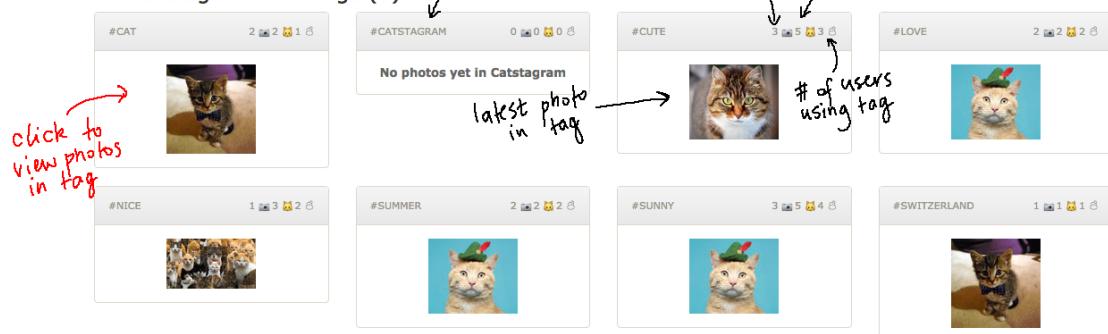
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- View all hashtags - `hashtags_controller#index`

Listing Hashtags

All Catstagram Hashtags (8):



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- View photos by hashtag - `hashtags_controller#show`

#CUTE
tag name

Photos in this tag (3):



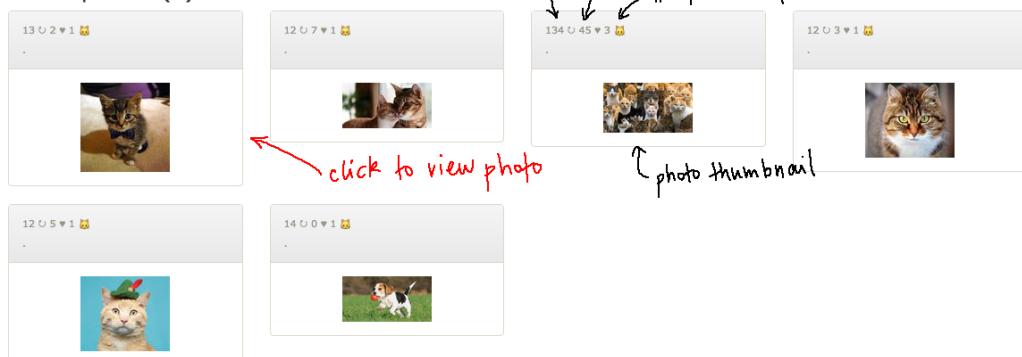
[Back to top](#)

(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- View all photos - `photos_controller#index`

Photos on Catstagram

Latest photos (6):



[Back to top](#)

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- View photos by user - `users_controller#show`
- View photos by cat - `cats_controller#show`

ADMIN ADMIN



user name

if admin

I am THE admin of Catstagram, I'm a cat lover.

biography

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to admin (1):

CATNOMYNOUS	2
	<i>click to see cat</i>

Photos uploaded by admin (2):

13 0 2 1 	12 0 7 1 
--	--

click to see photo

- View photo via direct link (increments view count) `photos_controller#show`



click to go to user

by admin

Uploaded: 2016-06-14 08:52:02 UTC

even nicer.... miaou

photo comment

full-size photo

#CUTE #SUNNY #SUMMER #LOVE

photo tags

of views
of likes
of cats on photo

- Search photos - `photos_controller#search`

Search result for 'switzerland'

Latest Photos (1):



Latest Hashtags (1):



Latest Cats (2):



Latest Users (0):

- Create an account and update an account (*sign up*) - default `Devise::RegistrationsController` and `registrations_controller` (for custom values of forms)

Sign up

Username

Email

Password (6 characters minimum)

Password confirmation

[Sign up](#)
[Log in](#)
[Back to top](#)

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click here
to reach this
screen

And it lands on the edit page of the user (see specific section).

- Log in to/logout from an existing account (*sign in*) - default `Devise::SessionController`

Log in

Email

Password

 Remember me

[Log in](#)
[Sign up](#)
[Forgot your password?](#)
[Back to top](#)

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click here
to reach this
screen

And confirmation:

Signed in successfully.

Welcome on Catstagram !

Latest Photos (6):

- 14 0 2 1 🐱
- 13 0 7 1 🐱
- 134 0 45 3 🐱
- 12 0 3 1 🐱
- 12 0 5 1 🐱 YOURS!
- 14 0 0 1 🐱

- Get a 403 Unauthorized Error when accessing a forbidden page

`application_controller.rb` for `rescue_from CanCan::AccessDenied`

ERROR 403 : FORBIDDEN/UNAUTHORIZED. ACCESS IS DENIED.

You're not authorized to see or access this resource, and it caused an HTTP 403 FORBIDDEN error.
You're connected as val (val@cat.com).
You probably don't have sufficient access rights. Ask an admin for more information.
If you have another account with different rights, you might want to Log out and log in again with the other account.

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As User

- Edit their own profile - `users_controller#edit`

Go to *Change password* to edit password and/or email, go to *Edit profile* to change username, avatar, biography.

Signed in successfully.

Welcome on Catstagram !

Latest Photos (6):

- 14 0 2 1 🐱
- 13 0 7 1 🐱
- 134 0 45 3 🐱
- 12 0 3 1 🐱

click here
then click here to log out

LOG OUT

MY PROFILE
MY CATS (1)
MY PHOTOS (1)

CHANGE PASSWORD
EDIT PROFILE

Form to edit password and/or email

Edit User

Email

Password (leave blank if you don't want to change it)

Password confirmation

Current password (we need your current password to confirm your changes)

Cancel my account

Unhappy?

[Back](#)

[Back to top](#)

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Form to edit username, avatar, biography.

Editing User "val"

[RETURN TO VAL'S PROFILE](#)

 No file chosen
click here to upload avatar

Username

Biography

[Back to top](#)

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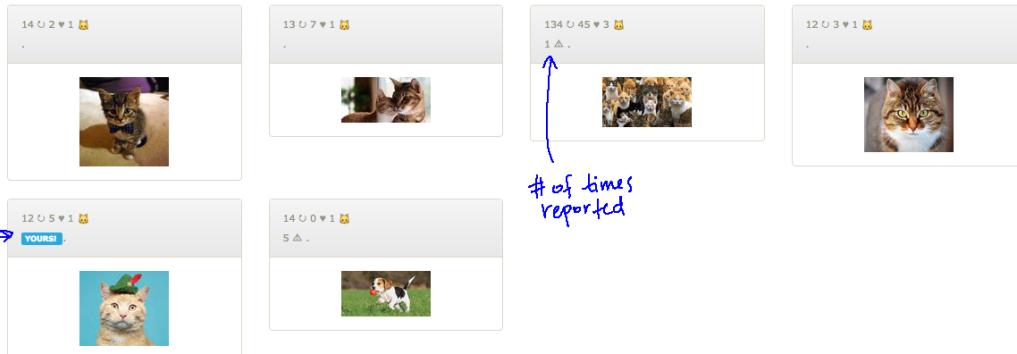
- Upload photos - `photos_controller#new`

On the main screen of photos, type the button *New photo*

Photos on Catstagram

:= new := → [POST NEW PHOTO](#)

Latest photos (6):



[Back to top](#)

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And fill the form

New Photo

Image

Choose File cat2.jpg

Cats on photo (use cmd or ctrl to select multiple cats)

Catonymous
??
Mickey
Houille

Caption

any text

Tags

cute	x
nice	x
love	x
switzerland	x

Add Tag

click here to add a text box →

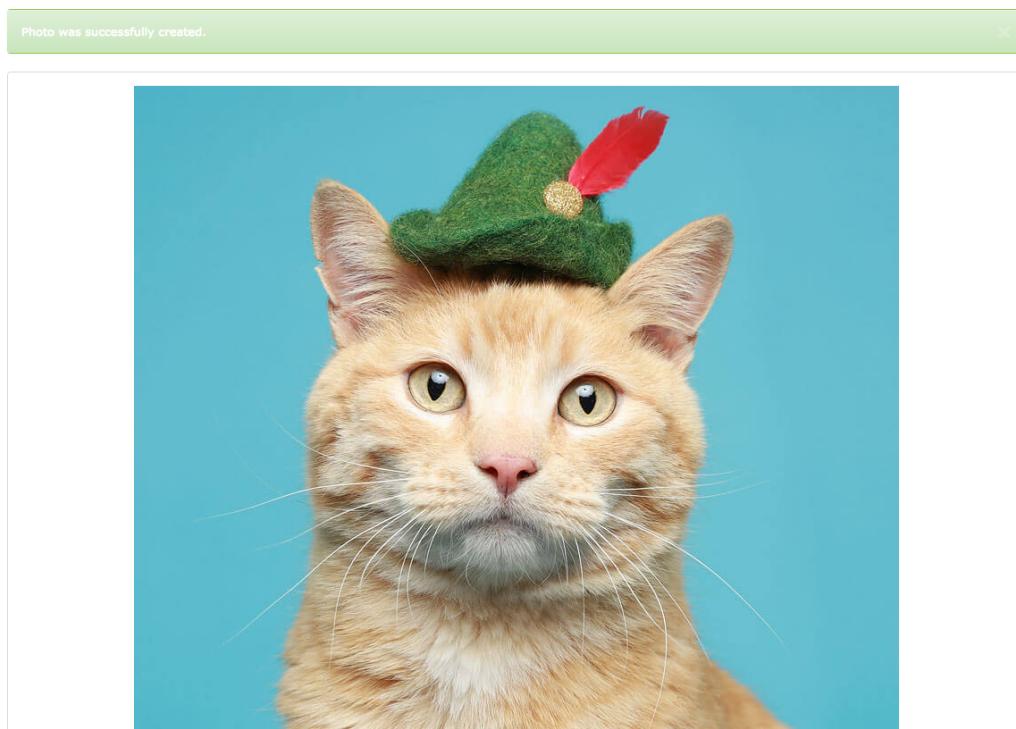
click here to remove

PUBLISH PHOTO

[Back to top](#)

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And get confirmation.



- Edit their own photos - `photos_controller#edit`

On a photo you own, click *Edit*



by val

Uploaded: 2016-05-14 00:00:00 UTC

a nicer cat taken in switzerland

Cats featured in this photo:



#SUNNY #SUMMER #LOVE

oh own photos

EDIT

DELETE

15 0 5 1 YOURS

localhost:3000/photos/2/edit

Fill the form

Editing Photo

→ new ↴ RETURN TO PHOTO



Choose File No file chosen

Cats on photo (use cmd or ctrl to select multiple cats)

Catnonymous
??
Mickey
Houille

Caption

a nicer cat taken in switzerland

Tags

sunny x
summer x
love x

Add Tag

EDIT PHOTO

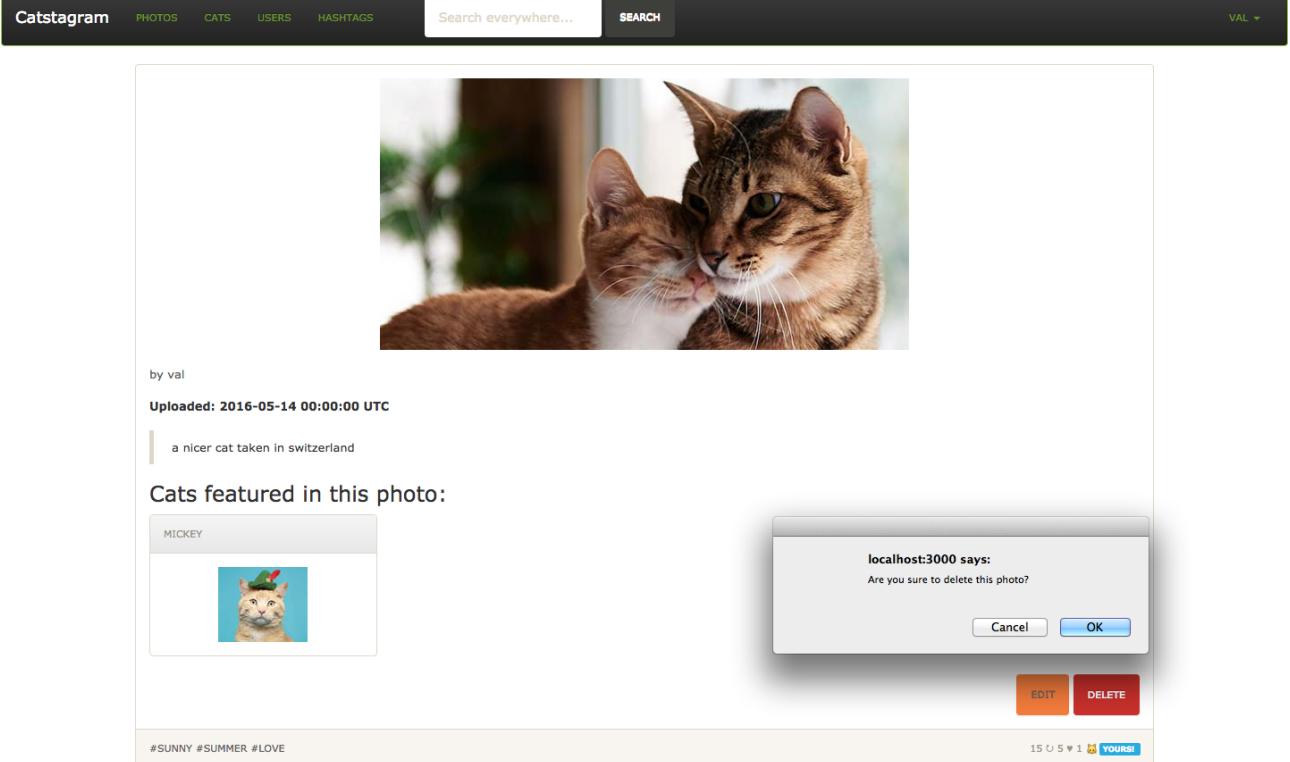
Back to top

(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

And get confirmation.

- Delete their own photos - `photos_controller#destroy`

On a photo you own, click *Delete*, confirm,



And get confirmation.

Photos on Catstagram

Latest photos (6): less than 5 minutes old

Photo Metrics	Photo Description
1 0 0 2 🐱 YOURS! NEW	
14 0 2 1 🐱	
13 0 7 1 🐱	
134 0 45 3 🐱 1 △ .	
12 0 3 1 🐱	
14 0 0 1 🐱 5 △ .	

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(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- Create a new cat profile - `cats_controller#new`

On the cats main page, click *New cat*

Cats on Catstagram

All Catstagram Cats (4):



[Back to top](#)

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Fill the form

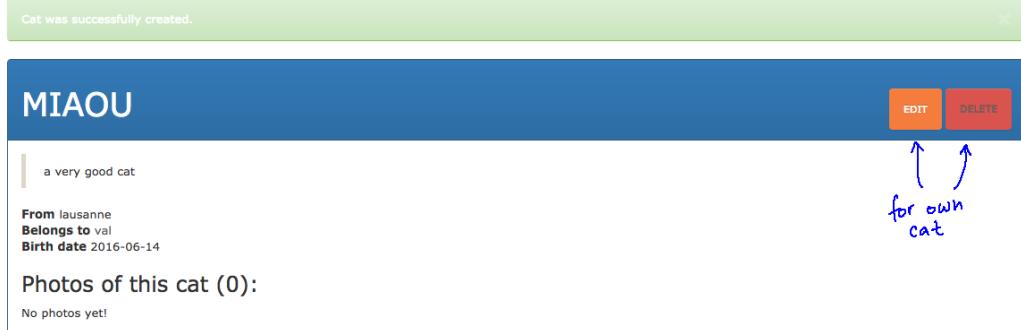
New Cat

Cat Name	miaou
Description	a very good cat
City	lausanne
Birth time	14 : June : 2016
Is this your cat?	<input checked="" type="radio"/> Yes <input type="radio"/> No
CREATE CAT	

[Back to top](#)

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And get confirmation.



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- Edit their own cat profiles - `cats_controller#edit`

On a cat you own, click *Edit*

Catstagram PHOTOS CATS USERS HASHTAGS SEARCH VAL ▾

MICKEY

From Lausanne, VD, CH
Belongs to val
Birth date 2016-05-19
EDIT
DELETE

Photos of this cat (2):



134 0 45 3 🐱
1 ⚡ .



1 0 0 2 🐱
YOURS NEW

[Back to top](#) (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

Fill the form

Catstagram PHOTOS CATS USERS HASHTAGS SEARCH VAL ▾

Editing Cat "miao"

Cat Name miao

Description a very good cat

City lausanne

Birth time 14 : June : 2016 :

Abandon your cat? No Yes

[RETURN TO MIAOU'S PROFILE](#)

EDIT CAT

[Back to top](#) (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

And get confirmation:

Catstagram PHOTOS CATS USERS HASHTAGS SEARCH VAL ▾

Cat was successfully updated. ×

MIAOU

a very good cat

From lausanne
Ownerless
Birth date 2016-06-14

Photos of this cat (0):

No photos yet!

[Back to top](#) (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- Delete their own cat profiles - `cats_controller#destroy`

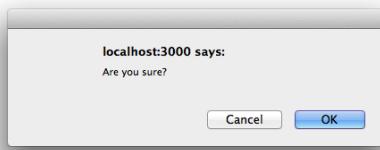
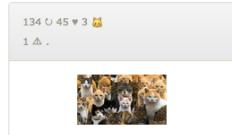
On a cat you own, click *Delete*

MICKEY

EDIT DELETE

From Lausanne, VD, CH
 Belongs to val
 Birth date 2016-05-19

Photos of this cat (2):

[Back to top](#)

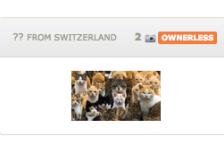
(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

confirm, and get confirmation:

Cats on Catstagram

CREATE NEW CAT

All Catstagram Cats (4):

[Back to top](#)

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- Delete their own profile - `users_controller#destroy`

On your own profile, click *Delete*

VAL



I like cats but I prefer dogs (don't tell paranoid!)

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to val (0):

No cats yet!

Photos uploaded by val (1):



↑ ↑
on own
profile

[Back to top](#)

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Confirm

Screenshot of the Catstagram user profile for 'VAL'. The profile picture is a cartoon character. The bio says 'I like cats but I prefer dogs (don't judge me)'. Joined at: 2016-06-14 08:52:02 UTC. Cats belonging to val (0): No cats yet! Photos uploaded by val (1): A photo of a cat wearing a green hat. A confirmation dialog box is overlaid on the page, reading: 'localhost:3000 says: Are you sure? Prevent this page from creating additional dialogs. [Cancel] [OK]'

[Back to top](#)

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And get confirmation.

Screenshot of the Catstagram homepage after account cancellation. A green banner at the top reads 'Bye! Your account has been successfully cancelled. We hope to see you again soon.' Below it, the heading 'Welcome on Catstagram !' is displayed. The 'Latest Photos (5):' section shows five photos: a cat with a bow tie, a group of cats, a close-up of a cat's face, a small dog playing with a ball, and a cat sitting on a couch. The 'Latest Hashtags (4):' section shows four hashtags with their respective counts: #CUTE (3,4,2), #SWITZERLAND (1,1,1,1), #SUNNY (2,3,2,1), and #SUMMER (1,1,1,1).

Or alternatively, go to *Change password*, and click *Cancel my account*

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH VAL ▾

Edit User

Email
val@cat.com

Password (leave blank if you don't want to change it)

Password confirmation

Current password (we need your current password to confirm your changes)

Update

Cancel my account

Unhappy?

Back

Back to top (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

And get confirmation.

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH SIGN UP LOG IN

Bye! Your account has been successfully cancelled. We hope to see you again soon. X

Welcome on Catstagram !

Latest Photos (5):

- 14 0 2 1 🐱 
- 14 0 8 1 🐱 
- 134 0 45 2 🐱 
- 12 0 3 1 🐱 
- 16 0 0 1 🐱 

Latest Hashtags (4):

- #CUTE 3 4 2 3 
- #SWITZERLAND 1 1 1 1 
- #SUNNY 2 3 2 2 
- #SUMMER 1 1 1 1 

- Report bad photos - `photos_controller#report`

On a photo you don't own, click *Report*



by bad

Uploaded: 2015-06-13 00:00:00 UTC

a bad reported photo, it's not a cat, it's a dog!

Cats featured in this photo:

CATNONYMOS



when logged in,
not on own photos
↓
↓
report count

LIKE REPORT 15 0 0 1 5 ▲

localhost:3000/photos/6/report

(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

confirm



by bad

Uploaded: 2015-06-13 00:00:00 UTC

a bad reported photo, it's not a cat, it's a dog!

Cats featured in this photo:

CATNONYMOS



LIKE REPORT 15 0 0 1 5 ▲

Back to top

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And get confirmation:

Report sent



by bad

Uploaded: 2015-06-13 00:00:00 UTC

a bad reported photo, it's not a cat, it's a dog!

Cats featured in this photo:

CATNONYMOS



LIKE REPORT 16 0 1 6 ▲

- View the report count of a photo - `photos_controller#show`

Report sent



by bad

Uploaded: 2015-06-13 00:00:00 UTC

a bad reported photo, it's not a cat, it's a dog!

Cats featured in this photo:

CATNONYMOS



LIKE REPORT 16 0 1 6 ▲

- Like photos - `photos_controller#like`

On a photo you don't own, click *Like*



by admin

Uploaded: 2016-06-14 08:52:02 UTC

even nicer.... miaou

Cats featured in this photo:

HOUILLE



#CUTE #SUNNY #SUMMER #LOVE

LIKE REPORT 14 0 7 1 🐱

[Back to top](#)

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localhost:3000/photos/4/like

And it updates automatically without reloading (admin)



by admin

Uploaded: 2016-06-14 08:52:02 UTC

even nicer.... miaou

Cats featured in this photo:

HOUILLE



#CUTE #SUNNY #SUMMER #LOVE

disappears
↓
after click

REPORT 14 0 8 1 🐱

[Back to top](#)

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As Admin

- Receive alerts of new reports - no controllers involved, just an alert & number in the navigation bar

See next screen.

- View new reports - `photos_controller#reported`

Click *New reports* in the navigation bar

The screenshot shows the Catstagram homepage with a search bar and navigation links for PHOTOS, CATS, USERS, and HASHTAGS. A green button labeled "POST NEW PHOTO" is visible. In the center, there's a section titled "Photos on Catstagram" with a heading "Reported photos (2)". Two photo cards are displayed, each with a "REPORTED" button. A blue handwritten note with an arrow points to one of the buttons, stating "only if admin or on your own photos". At the bottom, there's a "Back to top" link and a copyright notice "(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder."

- Reset report counts - `photos_controller#reset`

On a reported photo, click *Reset count*

The screenshot shows a photo of many cats uploaded by "paranoodle" on "2016-06-14 08:52:02 UTC". The caption reads "A bunch of nice cats for Catstagram!". Below the photo, a list of featured cats includes "HOUILLE". A modal dialog box is open, asking "localhost:3000 says: Are you sure to reset the report count of this photo?". It has "Cancel" and "OK" buttons. At the bottom of the page, there are "EDIT" and "DELETE" buttons, and a footer with hashtags "#CUTE #SUNNY #NICE" and a "RESET REPORTS (1)" button.

and get confirmation.

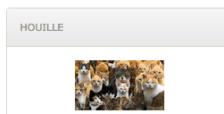


by paranoodle

Uploaded: 2016-06-14 08:52:02 UTC

A bunch of nice cats for Catstagram!

Cats featured in this photo:



[EDIT](#) [DELETE](#)

#CUTE #SUNNY #NICE

[LIKE](#) [REPORT](#) 136 0 45 2 🐱

[Back to top](#)

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- Remove reported photos - `photos_controller#destroy`

On a reported photo, click *Delete*

by bad
Uploaded: 2015-06-13 00:00:00 UTC

a bad reported photo, it's not a cat, it's a dog!

Cats featured in this photo:

Thumbnail for a dog named CATNONYMUS

localhost:3000 says:
Are you sure to delete this photo?
 Prevent this page from creating additional dialogs.
[Cancel](#) [OK](#)

[EDIT](#) [DELETE](#)

[LIKE](#) [REPORT](#) [RESET REPORTS \(6\)](#) 20 0 0 1 🐱 6 ↗ [REPORTED](#)

[Back to top](#)

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- Ban (and unban) user - `users_controller#ban` and `users_controller#ban_update`

On a user profile, click *Ban*

BAD



I am a bad guy and I'm banned...

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to bad (0):
No cats yet!

Photos uploaded by bad (1):

20 0 0 1 🐈
6 ⚡ REPORTED



BAN **EDIT ROLES** **EDIT** **DELETE**

[Back to top](#)

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Change the date (in the future to ban, in the past to unban), with calendar *on chrome*, with textfield on *Firefox*

Ban User bad

Enter the date until which the user must be banned (format: YYYY-MM-DD or DD/MM/YYYY). Dates before the current date or empty value will unban the user.

Ban until

click ⌂ to reset

June 2016 ▾

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

[RETURN TO BAD'S PROFILE](#)

[Back to top](#)

(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

Click **Ban**

Ban User bad

Enter the date until which the user must be banned (format: YYYY-MM-DD or DD/MM/YYYY). Dates before the current date or empty value will unban the user.

Ban until

BAN USER

[RETURN TO BAD'S PROFILE](#)

[Back to top](#)

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And get confirmation.

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH NEW REPORTS 1 ADMIN ACTIONS ▾ ADMIN ▾

User was successfully banned.

BAD

User is banned until 2016-06-21 00:00:00 UTC

I am a bad guy and I'm banned...

Joined at: 2016-06-14 08:52:02 UTC

Cats belonging to bad (0):
No cats yet!

Photos uploaded by bad (1):

20 0 0 1 🐱	<small>6 ↗ REPORTED</small>

UNBAN EDIT ROLES EDIT DELETE

[Back to top](#)

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Same applies to unban.

- View banned users - `users_controller#banned`

From the admin menu, click *View Banned Users*

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH NEW REPORTS 1 ADMIN ACTIONS ▾ ADMIN ▾

Users on Catstagram

Banned Users (1):

BAD	0 🐱 1 ↗ <small>BANNED</small>

only when admin

SHOW HASHTAGS FOR ADMIN
SHOW ROLES
NEW ROLE
EDIT MY ROLES
VIEW REPORTED PHOTOS (1)
VIEW BANNED USERS (1)

Back to top (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- Remove user - `users_controller#destroy`

Click on *Delete*, as for a regular user.

- Create empty new hashtag - `hashtags_controller#new`

Catstagram PHOTOS CATS USERS HASHTAGS Search everywhere... SEARCH NEW REPORTS 1 ADMIN ACTIONS ▾ ADMIN ▾

New Hashtag

Tag

Create Hashtag

Back

Back to top (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- View editable list of all hashtags - `hashtags_controller#index_admin`

The screenshot shows the 'Hashtags' section of the Catstagram admin dashboard. At the top, there's a navigation bar with links for PHOTOS, CATS, USERS, and HASHTAGS. A search bar is followed by a 'SEARCH' button. On the right, there are links for NEW REPORTS (1), ADMIN ACTIONS, and ADMIN. Below the navigation, the title 'Listing Hashtags for admin.' is displayed. A table lists various hashtags with columns for the tag name, a 'Show' link, an 'Edit' link, and a 'Destroy' link. The hashtags listed are: cat, Catstagram, cute, love, nice, summer, sunny, and switzerland. At the bottom of the page, there are links for 'New Hashtag', 'Back to top', and copyright information '(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.'

- Edit everything - `[NAME]s_controller#edit` and `users_controller#edit_roles` and `users_controller#save_roles`

As in regular user, but for a cat additionnal options for owner, to remove/add/change ownership

The screenshot shows the 'Edit Cat' form for a cat named 'miao'. The form includes fields for Cat Name (miao), Description (a very good cat), City (lausanne), Birth time (set to June 14, 2016), and Has an owner? (Yes, selected). The owner dropdown shows 'paranoodle'. There are 'Yes' and 'No' radio buttons, and a 'EDIT CAT' button. A blue 'RETURN TO MIAOU'S PROFILE' button is located at the top right of the form area. At the bottom, there are links for 'Back to top' and copyright information '(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.'

And get confirmation

The screenshot shows the 'Cats' section of the Catstagram admin dashboard. At the top, there's a navigation bar with links for PHOTOS, CATS, USERS, and HASHTAGS. A search bar is followed by a 'SEARCH' button. On the right, there are links for NEW REPORTS (1), ADMIN ACTIONS, and ADMIN. Below the navigation, a green success message 'Cat was successfully updated.' is displayed. A cat card for 'MIAOU' is shown with its details: a very good cat, From lausanne, Belongs to paranoid, Birth date 2016-06-14. It also shows a section for 'Photos of this cat (0):' with the message 'No photos yet!'. At the bottom, there are links for 'Back to top' and copyright information '(c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.'

- List roles

listing Roles

Name	Action	Edit	Destroy
admin	Show	Edit	Destroy
user	Show	Edit	Destroy
tester	Show	Edit	Destroy

New Role

Back to top (c) 2016 Catstagram - HEIG-VD - Made by Eléonore d'Agostino & Valentin Minder.

- Edit roles

Roles attributed to admin

Roles

admin
 user
 tester

SAUVEGARDER

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- Destroy everything - `[NAME]s_controller#destroy`

As seen in previous screens.