## My Ruby on Rails Cheat Sheet

- Maria Stoica



Incepe cu fast head start: (2-3 zile ca sa intelegi the basics f bine).

Rails for Zombies 1 & 2 http://railsforzombies.org

Apoi, un tutorial complet ca sa faci un site gen Twitter.

Rails Tutorial e-book <a href="https://www.railstutorial.org/book">https://www.railstutorial.org/book</a>



http://rubyonrails.org/download/

- 1. Install Ruby
- 2. Install Rails

## \$ rails new NumeProject

**\$ bundle install** # e indicat sa stergi Gemfile.lock si apoi sa dai bundle install

# controller cu pagini unde Home e numele controllerului iar tot ce urmeaza dupa sunt numele paginilor (face cate un view pentru fiecare).

\$ rails g controller Home page1 page2 page3

# scaffold (model, controller, views)

# User e numele modelului si al controllerului iar tot ce urmeaza dupa sunt atributele sub forma de nume\_atribut:tip\_atribut

# tipuri de date: string, integer, date, datetime

rails g scaffold User name:string zi\_nastere:date tag:integer

# genereaza doar modelul (tabelul)

rails g model User name:string zi\_nastere:date tag:integer

http://guides.rubyonrails.org/migrations.html

# add column

rails g migration add\_nume\_atribut\_to\_table\_name\_plural nume\_atribut:tip\_atribut

Fiecare <u>view</u> are o <u>metoda</u> cu <u>acelasi nume</u> in <u>controller</u>-ul de care apartine. Cand creezi o pagina noua, ii adaugi si metoda in controller si o listezi si la <u>routes</u>. (ce e generat cu scaffold nui mai apare in routes cu toate view-urile ce tin de CRUD).

# vreau sa lucrez cu thing in html. Il creez in controller dar e doar local dc il las thing. Daca ii pun @thing atunci el e vizibil in view-ul corespunzator metodei.

1. creezi un repo pe github si iti iei linkul

\$ git init

\$ git add.

**\$ git commit -m "message what this commit adds"** # cu commit, schimbarile au loc doar local - daca le vrei si in repo-ul online at dai push

**\$ git remote add origin** https://github.com/UserName/NumeProiect.git # remote-ul (repo-ul local), in cazul asta, se numeste origin

\$ git push origin master # acum ce a fost retinut in commit este urcat online

**\$ git push origin master --force** # dai --force atunci cand vrei sa inlocuiesti codul din repo-ul de pe github cu alt cod (in loc sa il modifici pe cel existent). De eg daca refaci aplicatia de la zero si nu vrei sa faci un repo nou

\$ git remote -v # ca sa vezi ce remote-uri ai.

Github SSH trouble

https://help.github.com/articles/generating-ssh-keys/



"Skinny controllers, fat models."

### 1. Crearea tabelelor si modificarea lor

- a. rails g model User name:string
- b. rails g scaffold User name:string
- c. rails g migration add\_column\_to\_users column:string

# 2. Validarea atributelor in model (app/models/user.rb de eg)

http://guides.rubyonrails.org/active record validations.html

```
validates :content, length: {
    minimum: 300,
    maximum: 400,
    tokenizer: lambda { |str| str.scan(/\w+/) },
    too_short: "must have at least %{count} words",
    too_long: "must have at most %{count} words"
    }

VALID_EMAIL_REGEX = /\A[\w+\-.]+@[a-z\d\-.]+\.[a-z]+\z/i

validates :email, presence: true, format: { with: VALID_EMAIL_REGEX }, uniqueness: true
```

#### 3. Querries in controller sau in view

http://guides.rubyonrails.org/active\_record\_querying.html

```
User.find(3)
# unde 3 e id-ul

User.find_by_column_name("foobart")
# unde "foobart" este valoare din column_name

User.where(tag:[1,5], isFree:true)
# userii care sunt free si care au la coloana tag un numar cuprins intre 1 si 5

freeUserIds = User.where(isFree:true).pluck(:id)
# din toti userii returnati de where pastrez doar id-urile in freeUserIds ca apoi sa pot face asta:
swordsOfFreePeople = Sword.where(user id:freeUserIds)
```

## # acum am sabiile oamenilor liberi.

Daca, de eg, freeUserIds == [1, 2, 5, 34, 56] atunci

user id:freeUserIds se traduce in SQL prin user id IN [1, 2, 5, 34, 56]

@results = @results.where(este\_libera: true).where("user\_id IN
 (SELECT id FROM users WHERE specializare LIKE 'Ambele' OR
 specializare LIKE ?)", "#{get\_current\_user.specializare}")

# poti sa pui si cod SQL in querry. #{ruby code} inseamna ca ia valoarea dintre acolade si o pune in querry

# # pentru editare - nu necesita sa dai .save dupa

User.find(3).update\_attributes(name: "Bill", isFree: false)

# # stergi tot ce e in tabel

User.delete all

# # stergi doar User.find(3)

User.find(3).destroy



## https://devcenter.heroku.com/articles/getting-started-with-rails4

- \$ heroku create
- \$ heroku app:rename NewNameOfProject
- \$ git push heroku master # push the app to heroku
- \$ heroku run rake db:migrate # daca nu faci migrate dupa ce dai push prima oara da eroare
- \$ heroku run rake db:seed # daca vrei sa populeze baza de date cu ce e in seed.rb
- \$ heroku open # deschide aplicatia intr-o pagina noua

Each time you wish to deploy to Heroku:

\$ git add . -A

\$ git commit -m "commit for deploy to heroku"

\$ git push -f heroku

Consola bazei de date din heroku

\$ heroku run console

Bun de vazut erori desi e messy

\$ heroku logs

Heroku SSH trouble

https://devcenter.heroku.com/articles/keys

#### # new or edit in a form

## # form helpers

```
http://guides.rubyonrails.org/form_helpers.html

text_field

number_field

date_field

email_field

hidden_field
```

## # parcurgerea unui set

```
@things.each do |thing| ... end
```

## # timp ramas in cuvinte (in engleza) - primeste datetime sau date

```
time_ago_in_words(get_current_sesiune.data_start)
```

## # corectarea pluralului - doar sa puna "s" la final pt plural

```
config/initializers/inflections.rb
ActiveSupport::Inflector.inflections do |inflect|
   inflect.irregular 'a', 'as'
end
```

## # vezi continutul variabilelor cu p si puts

Cand dai **\$ rails s** iti apar in terminal toate activitatile site-ului si ce requesturi au fost facute si ce s-a raspuns la ele. (WEBrick)

# Pe heroku ai **\$ heroku logs**Ca sa afisezi ceva in terminal poti folosi p sau puts in controller sau in view.

puts "smth" + self.first\_name + thing.numar.to\_s
sau

p foo

care e acelasi lucru cu

puts foo.inspect

http://stackoverflow.com/guestions/1255324/p-vs-puts-in-ruby

# # mail setup (partial - pasii mari)

```
http://guides.rubyonrails.org/action_mailer_basics.html
# Setting the email in the app
config/environments/development.rb
config.action mailer.delivery method = :smtp
  config.action mailer.smtp settings = {
      address:
                              'smtp.gmail.com',
      port:
                              587,
                             'gmail.com',
      domain:
      user name:
                             'fmiunivbuc@gmail.com',
                             'fmiunibuc',
      password:
                             'login',
      authentication:
      enable starttls auto: true }
config/routes.rb
match "intreaba/send", to: "browse pagini#sendmail", via: "post"
app/mailers/user mailer.rb
class UserMailer < ActionMailer::Base</pre>
  default from: "fmiunivbuc@gmail.com"
  def notification email(from mail, to mail, subject, text)
    @text = text
    mail(from: from mail, to: to mail, subject: subject)
  end
end
# Send the email
method in a controller
def sendmail
     UserMailer.notification email(User.find(get current user.id).e
     mail,params[:to], params[:title], params[:text]).deliver
```

redirect\_to root\_path
end

# # setting up your own authentication (partial - pasii mari)

(de la capitolul 6 la capitolul 8)

https://www.railstutorial.org/book/modeling\_users#sec-adding\_a\_secure\_password

#### Gemfile

gem 'bcrypt-ruby', '3.1.2'

\$ bundle install

# adauga atributul password\_digest in User

\$ rails g migration add\_password\_digest\_to\_users password\_digest:string

app/models/user.rb

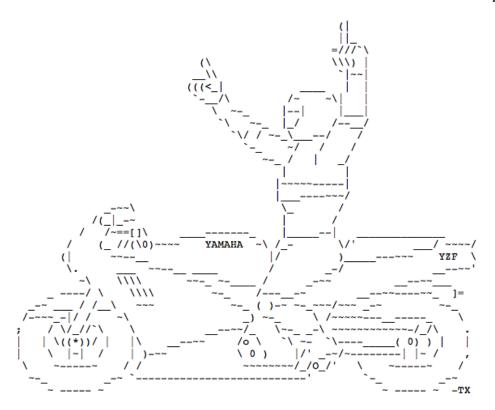
has secure password

\$ rails c

> User.create(name:"Tom", password:"foobar", password\_confirmation:"foobar")

- CodeSchool's Ruby Path: <a href="https://www.codeschool.com/paths/ruby">https://www.codeschool.com/paths/ruby</a>
  - o Rails 4: Zombie Outlaws: <a href="http://rails4.codeschool.com/videos">http://rails4.codeschool.com/videos</a>
  - o Rails 4 Patterns https://www.codeschool.com/courses/rails-4-patterns
  - Surviving APIs with Rails
     <a href="https://www.codeschool.com/courses/surviving-apis-with-rails">https://www.codeschool.com/courses/surviving-apis-with-rails</a>
  - Rails Testing for Zombies:
     <a href="https://www.codeschool.com/courses/rails-testing-for-zombies">https://www.codeschool.com/courses/rails-testing-for-zombies</a>
  - o Testing with RSPEC: <a href="https://www.codeschool.com/courses/testing-with-rspec">https://www.codeschool.com/courses/testing-with-rspec</a>
  - o Ruby Bits: <a href="https://www.codeschool.com/courses/ruby-bits">https://www.codeschool.com/courses/ruby-bits</a>
  - Ruby Bits 2: <a href="https://www.codeschool.com/courses/ruby-bits-part-2">https://www.codeschool.com/courses/ruby-bits-part-2</a>
- Places with Books:
  - This is sheer awesomeness: http://it-ebooks.info

- Have fun!



- Imagination is the limit.