

# D04 - Ruby on Rails Training Rails 101

Summary: Rails is a powerful opensource framework combining high productivity and quality code while benefiting the support of a large community of devoted users.

With this D04, you will learn to domesticate its most accessible sides.

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# Chapter I Preamble

#### Philosophy

- $\bullet~{\rm DRY:Don't~Repeat~Yourself}$
- Convention over configuration
- REST : Representational State Transfer
- CRUD : Create, Read, Update, Delete

#### Library

- Your new bible
- Your new toolbox
- Your new evening news program
- Your new TV

# Chapter II

### Instructions

- Only this page will serve as reference. Do not trust rumors.
- The exercises have been ordered from easiest to most difficult. Under any circumstance you can submit or take into account an exercise if a previous one has failed.
- Be careful with the access rights of your files.
- You should follow the submit procedure for all you exercises.
- Your exercises will be corrected by your piscine peers.
- You cannot leave any extra file on your repository except the ones explicitly specify on you subject.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- Everything you need can be found on the man or out there on Google.
- Read carefully the exercises: they may contain some features you should implement that are explicitly mentioned on the subject.
- Think about discussing on the forum Piscine of your Intra!
- Use your brain!!!

# Chapter III

# Today's specific instructions

- All the turned-in files will be Ruby On Rails web applications.
- Today's projects' Gemfile must include:

#### gem 'rubycritic', :require => false

When running the "rubycritic" command, the html report page's "smells" must be EMPTY!!!

• Except if specified otherwise in the subject, NO additional Gem will be authorized to complete these exercises.

# Chapter IV

## Exercise 00: CheatSheet

	Exercise 00	
/	Exercise 00: CheatSheet	
Turn-in directory : $ex00/$		/
Files to turn in : CheatSheet		/
Allowed functions: bootstrap-sass, rubycritic		

Satisfied with your first "Hello World" in rails, you feel like you've grown wings and choose to push what you've learned from your new companion a little further.

Not too far, though... As a matter of fact, we're gonna spend the day using rails' most simple mechanisms.

If you spent the majority of your time on Wikipedia yesterday, I suggest you take D03-Ex04 before going any further.

NO DATABASE, NO 'CRUD' for now. We will just focus on views.

Go here and feast your eyes on this wonderful site that will remind you of the useful commands...

You must replicate this page, including footer. It will just be the page this time. The navigation system will be for some time later. By the way, don't waste time making pixel perfect css. However, you result will have to remotely look like this page.

You will have to observe this few instructions:

- The app will be named "CheatSheet"
- It just contains a controller of your own design, application\_controller which must be left as is
- The main page's title is "CheatSheet"
- You don't have to replicate the nav-bar (the red thing at the beginning of a page) for the moment
- You will have to design your page a little. We don't demand a professional readyto-produce design, but your page will have to be pleasant to look at.

Your HTML should be where it belongs. The controller should be in its folder. No CSS will be tolerated in an HTML file! Use Rails like you ought to.

Don't be silly. The CheatSheet is aptly named. It will help you in the arborescence of a Rails application as well as in the useful commands.

You should also use the "inspect element" command of your browser and be smart... Remember yesterday's crawler.

# Chapter V

## Exercise 01: Moar CheatSheet

	Exercise 01	
	Exercise 01: Moar CheatSheet	
Turn-in directory : $ex01$	1	/
Files to turn in : NewCheatSheet		
Allowed functions: boo	tstrap-sass, rubycritic	

Ok. Now you know how to make a One-Page with Rails, it's time to talk serious business.

Pick your previous application. You will now implement the nav-bar (the red thing...) and change you CheatSheet navigation a little bit.

Practically, you're gonna have to separate each part of this CheatSheet into independent pages and assign a nav-bar button to the matching page.

What's expected:

- The app will be named "NewCheatSheet"
- It stills includes just one controller of your own design, application\_controller you will leave as is
- Each page will have a dedicated "title" tag
- You must write the "nav-bar" code just once!
- The first page is the "Convention" page. Il will be your root page

- All the following pages must be represented:
  - convention
  - o console
  - o ruby
  - $\circ$  ruby-concepts
  - o ruby-numbers
  - $\circ$  ruby-strings
  - ruby-arrays
  - o ruby-hashes
  - $\circ$  rails-folder-structure
  - o rails-commands
  - o rails-erb
  - $\circ$  editor
  - $\circ$  help
- "Resources" and "About" pages won't have to be replicated nor included in the nav-bar.
- You will have to design your page a little. We don't demand a professional ready-to-produce design, but your page will have to be pleasant to look at.

# Chapter VI

# Exercice 02: Quick search

2	Exercise 02			
	Exercice 02: Quick search	/		
Turn	-in directory : $ex02/$	/		
Files to turn in : CheatSheet				
Allov	ved functions: bootstrap-sass, rubycritic, jquery-datatab	les-rails		

This CheatSheet is useful, right? But it still can be enhanced.

It will take a jQuery plugin and a little content reformatting... Add a thumbnail named "Quick search" that will include a table incorporating the content of ALL the other tables of the CheatSheet.

This table will be **properly formatted**, with a header, the proper number of columns, properly located tags etc.

Thus, you will be able to use the jquery-datatables-rails Gem that will boost this table.

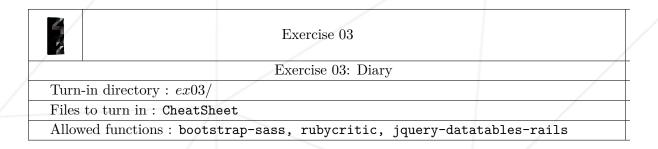
To be clear, you will have to:

- Implement a new "Quick search" thumbnail in the nav-bar.
- Let this thumbnail have its personalized title tag, like the rest of the site.
- Let its content be a recap table of ALL the other pages' commands.
- Associate the jQuery-datatables-rails plugin to this table, and include it to the project via its Gem.

NB: If an error message pops up or Javascript appears in the html.erb file, the exercise will be invalid.

# Chapter VII

# Exercise 03: Diary



The CheatSheet project starts looking good. But as any seasoned developer, you're keeping a technical journal, and it would be really neat to include it in your project.

Create a new thumbnail called "Log Book" that features a form with a "Write" button and a field to include text in the page header. Once the form is filled and submitted, you app will add the text in the form to a "entry\_log.txt" file, located at the root of you CheatSheet project's folder.

The text will have to be formatted on the fly adding date and time as follows at the beginning of the line:

```
15/07/2016 23:42:04 : The whole team is asleep, Jim.
15/07/2016 23:41:26 : The whole team is yawning, Jim.
```

A loop manages the text display: each entry must be displayed after the form, with its own tag from the oldest to the newest entry.

Each time you click on the form's "Write" button, you must be redirected on the same page, with the new line showing on top.