



Ruby on Rails training - Rush 01

Every companies want some

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Summary: This is the second complex project (everything is relative) you have to do.

Contents

I	instructions	2
II	Specific Rules of the day	4
III	Preamble	5
Part IV mandatory		7
IV.1	Iteration 1: Functionality Not Trade.	8
	IV.1.1 Sprint1: User accounts.	8
	IV.1.2 Sprint 2: Admin back-office.	9
	IV.1.3 Sprint 3: storefront.	9
	IV.1.4 Sprint 4: In email.	10
IV.2	Iteration 2: Functionalities Trade.	11
	IV.2.1 Sprint 1: Customer Database.	11
	IV.2.2 Sprint 2: Project Suite.	11
	IV.2.3 Sprint 3: Survey.	13
IV.3	Bonus.	13

Chapter I

Instructions

- Only this page serve as a reference: Do not fi rm the hallway noise.
- The subject can change up to an hour before rendering.
- If no contrary information is explicitly present, you must assume the following language versions:
 - Ruby 2.3.0
 - for d09 Rails> 5
 - but for all the other days rails 4.2.6
 - HTML5
 - CSS 3
- We prohibit EXPRESSLY using keywords while, for, redo, break, retry and until in Ruby source code that you will make. Any use of these keywords is considered cheating (and / or unfit), giving you the score of -42.
- The exercises are precisely ordered from simple to more complex. In any case, we do not bear attention or take into account a complex exercise if a simpler exercise is not very successful.
- Attention to the rights of your fi les and your directories.
- You must follow the rendering process for all your exercise: only the present work on your GIT repository will be evaluated in defense.
- Your exercises will be evaluated by your pool mates.
- You should leave in your repertoire no other fi le than those explicitly speci fi ed by the forward drills.
- You have a question ? Ask your neighbor to the right. Otherwise, try your left neighbor.
- Your reference manual called Google / man / Internet /
- Think discuss on the forum of your pool Intra!
- Read the examples carefully. They might require things that

not otherwise specified in the subject ...

- Please, by Thor and Odin! Re fl échissez dammit!

chapter II

Specific Rules of the day

-
- Outside the rails gems you can have only these Gems (including bonus):
 - Pdf generation:
 - Prawn
 - Wicked pdf
 - PDFKit
 - Wkhtmltopdf
 - Registration:
 - Motto
 - OmniAuth
 - Authlogic
 - Styling:
 - Bootstrap-sass
 - Rails-bootstrap-forms
 - Ajax:
 - Best in Place
 - Rich text:
 - wysiwyg-rails
 - CSV:
 - roo
 - Charts:
 - LazyHighCharts
 - Date range:
 - jquery datepicker

Chapter III

Preamble

usefull Facts

Google runs on 5000 times more code than the original space shuttle The microcontroller inside a Macbook load is about as Powerful as the original Macintosh computer.

"The quick brown fox jumps over the lazy dog" is an English-language pangram, a sentence That contains all of the letters of the alphabet.

If you eat a teaspoon of sugar after-eating something spicy, it will completely Call neutralized lize the heat.

A day on Venus is along than a year on Venus.

The term "nerd" originated from Dr. Seuss' 1950's book, If I Ran The Zoo. "Scotland's national animal is the unicorn

In ancient Rome, When a Man testi fi ed in court Would he swear On His testicles. A donkey will sink in quicksand goal mule will not.

In the 40's, the Bich pen Was changed to Bic for fear That Americans Would Pronounce it'Bitch. '

A woodchuck breathes only 10 times in hibernation. A cat's jaw can not move sideways. An ostrich's eye is bigger than icts brain.

If you put a drop of liquor was scorpion, it will go mad and sting Instantly Itself to death.

The average person falls asleep in seven minutes.

The Declaration of Independence Was written on hemp (marijuana) paper. A group of kangaroos s'intitule a mob.

IBM's motto is 'Think. Apple later made Their motto 'Think diff erent. Albert Einstein and Charles

Darwin Both married Their fi rst cousins. Charlie Chaplin once won third prize in a Charlie Chaplin look-alike contest. Most dust particles in your house are made from dead skin!

In the "May I have a wide container of co ff ea" award, the number of letters in words Each Makes the (begining of) the number pi.

It Would take Approximately 31.7 years to count o ff 1 trillion seconds. Bikinis and buffers

Were invented by men. Kissing is more hygienic and Healthier than shaking hands. It is not possible for a human to sneeze with your eyes open.

chapter IV

mandatory part

You have arrived at this second rush that will close two weeks of swimming. This is an opportunity for you to demonstrate your skills with Rails to prove your extraordinary efficiency of startup-freelance-writer-developer.

The 'views' are not imposed, it is for you to define if everything is on one page, or if there is one word per page. However, the layout is required and a minimum of structure:

- incitement: leads the user to effectuer of specific actions.
- distinction: Group functions similar facilitating access, mémorisation and learning.
- readability: clarify and limit the number of elements different present on the interface
- brevity: a concise content to facilitate the use of data

These are not the rules of the rush, but an incentive to facilitate common sense, too, your correction.

You do not have to do tests. I mean: it will not be assessed, but it is never a safe from the effects of the development of a feature.

You must by all means have seed that sufficiently demonstrate the good operation of each functionality.

It is also advised to read the whole topic before starting;).

IV.1 Iteration 1: Functionality Not Trade

You must first perform a basic project with several parts, each gathered in a sprint:

IV.1.1 Sprint1: User accounts

You must set up a system of authentication, with the compulsory feature:

- No password in clear (in logs or DB)
- Form // sign-in sign-out
- A feedback indication:
 - Log in
 - notification system of flash events
 - Opportunities for modifying their information users and a management

privileges for the types of accounts:

- **admin:** has its back-office own with total control all the CRUD.
- **operator:** Basic functionality (access to personal data), and must belong to one of the following groups (it can belong has one):
 - Production
 - International
 - Commercial
- **manager:** Basic functionality (access to personal data), access to back-offices of EVERY sprints (except admin), read access to the personal data (all), and assigning users to groups.
- **unregistered:** access only to public areas.



Remember: You do not have permission to use the gems that will taff in your place, like 'rolify', 'can-can' ...

IV.1.2 Sprint 2: Admin back-office

As stated above, there must be all CRUD any application re-presented here, all you'll develop throughout the years realize now must be added here and open access for purposes of administration.

Only able to him:

- assign / modify privileges to users.
- create / modify a 'user account' and delete.



The admin is -all-puissant- on the data, but does not necessarily creating errors: 'Stored nil gains', 'no single IDS' or 'unvalid data'



Remember: You do not have permission to use gems like 'admin-track', 'Active-admin ...

IV.1.3 Sprint 3: storefront

A home page to make a presentation of your company sham. This part is public

This page is your responsibility and must have must:

- links to: register, login.
- pictures, one (or more) video (s) Back-office

ce:

- No

IV.1.4 Sprint 4: In email

Do I explain the concept of 'in email'? Well, when in doubt, I list at least the mandatory features:

- in box: for all users registered with all the in-mail to destination the user connected, and mention of status' or read again.
 - out box: for all users registered with all the in-mails envoyés by the user connected. With mention 'read' if the recipient opened.
 - send: anyone can send 'messages in' individuellement.
 - Contact list: list of all registered users with links to "in email that person" (not I can not explain), and mention the group to which it belongs
 - pdf: the in-mail Receipts / sent have a button that generates a PDF with the content of the email (through the browser's print function will not be admitted, going ... you guessed it.). Back-office:
-
- Sending mail in-groups.
 - Sending mail to all.
 - activity history, list of items with text 'read' if opened by the recipient, in the manner of a log [date / time] [title] [sender] [recipient] [link to content]:
 - For everyone
 - For users
 - For groups
 - Similarly, a manager can read through the history in all-mails (not meuu is not flipant, [Mr Tuttle](#))

IV.2 Iteration 2: Commercial Functionalities

After having set up a basic infrastructure, you now have to occupy the profession of the heart of your sham company.

IV.2.1 Sprint 1: Customer Database

As its name suggests, this is a list of customers and will prototype as follows: name, first name, email, phone, company, function

It should be accessible by all registered users and readable order tick attending literacy and company. It should also be able to import new via CSV through the gem [roo](#). Back-office:

- Export to CSV
- History of activity: by company and by customer, we must see actions concerning these entities. (In the current state of the code is irrelevant, but with the features of the next sprint, it will make sense). There must figure Entre others:
 - Imports, when and by whom
 - Quotes, when and by whom
 - Orders, when and by whom
 - Invoices, when and by whom
- deleting entries
- Customer assignment to operators (all groups combined)

IV.2.2 Sprint 2: Project Suite

One project:

- a name, a client and one or more quotes (quotation proposal to a client by an operator)
- an order (command creates an operator at the customer's request)
- one or more in-going invoices (FUNCTIONING fee invoice, freight)
- an out-going invoice (final customer billing, consistent with good order) Each of these items has:

- A header which figure:
 - a customer
 - his company
 - its operator
 - a creation date
- items that have:
 - a price
 - a description
- an intro 'rich text'
- total euro '€'

Operators can create invoices, quotes and orders that have to belong to a project.



you are exempt from VAT concept not thank me

Back-office:

You will always calculate on a granularity of 1 week (X-axis) of MONTHS (y-axis), and on time ranges selectable via the plugin 'pick-a-day' in the page header. There are three pages: by customer, by business and for

all, where figure the following two graphs:

- Total revenue (out-going invoices) minus expenses (in-going invoices)
- Sum of orders

Only the manager can create a project.

IV.2.3 Sprint 3: Survey

Each operator can create a poll, polls are public and you must save the mails (syntactically valid) non-registered respondents.

The surveys include:

- A title
 - An intro en'rich-text '
 - questions to answer yes / no
 - a thank you message en'rich- text '. Back-o ffi ce:
-
- creating multiple surveys
 - validation (setting public / visible) surveys
 - Import CSV of new polls
 - Export CSV surveys of results
 - Listing and export CSV of collected mail

IV.3 Bonus

You probably imagine that the bonuses will be only evaluated than if all else fonctione perfectly.

Many 'smart-features' have been omitted in the subject are consistent and useful things to add to the few they use any additional gem.

A Bonus is an improvement of A sprint and the layout, it's not serious bonus.