Introduction to Rails by Rotem Harel June 29, 2014

Exercise #1

The Ruby Programming Language

Start practicing your Ruby language skills with this awesome interactive tutorial: http://tryruby.org/. Finishing the whole tutorial should take about 2 hours, but you might want to shorten this time. If you do, make sure you at least work with levels 1-4 and 7 before moving on to learning Ruby on Rails.

Exercise #2 Creating a Rails Application

- 1. Create a Github account (if you don't already have one).
- 2. Use your Github account to create a user on Cloud 9.
- 3. Create a new Rails development box and start it. Notice that a new Rails application has already been created.
- 4. Generate a model of a lecture that contains the following information: title (of type string), description (of type text) and difficulty (of type integer).
 - 5. Read and understand the generated migration and model files.
- 6. Run the migration with the command "rake db:migrate", and make sure that it succeeded.
 - 7. Generate a controller for our lecture with the action "index".
- 8. Inside the index action, retrieve all the lectures in the database and store them in the variable @lectures.
- 9. Update the respective view to list all the lectures, their description and their level of difficulty.
 - 10. Start the Rails server.

- 11. Browse to http://localhost:3000/lectures/index and make sure that the lectures list is empty.
 - 12. Start the Rails console.
 - 13. Create a few lectures from within the console.
- 14. Refresh your browser and make sure that you can see all the lectures that you've just created listed there.

Exercise #3

Creating a scaffold

Now we want to have a list of subjects in each lecture.

- 1. Generate a scaffold of subjects. Each subject has a name (of type string), and a lecture (of type "references").
 - 2. Read and understand the generated migration and model files.
 - 3. Read parts 1, 2.1, 2.2, and 2.3 of the article Active Record Associations.
- 4. Change the code of the subject model and the lecture model so that a lecture has many subjects, and a subject belongs to a lecture.
- 5. In the form view file of subjects create a field that will allow to select the lecture to which the subject is belong to. You can do that using this line of code:
- <%= f.collection_select(:lecture_id, Lecture.all, :id, :name, :prompt => 'Please select a lecture') %>
 - 6. Add an attr_accessible called "lecture_id" to the subject model.
- 7. Run the migration with the command "rake db:migrate", and make sure that it succeeded.
 - 8. Restart the Rails server and browse to http://localhost:3000/subjects.
 - 9. Create new subjects and attach them to lectures.