

Homework 6 – ActiveRecord

Due: November, 13

You are tasked with creating a Rails app that will eventually become the next big sensation and help the world finally finish up all of their tasks.

For now, you are only interested in the database portion of the app.

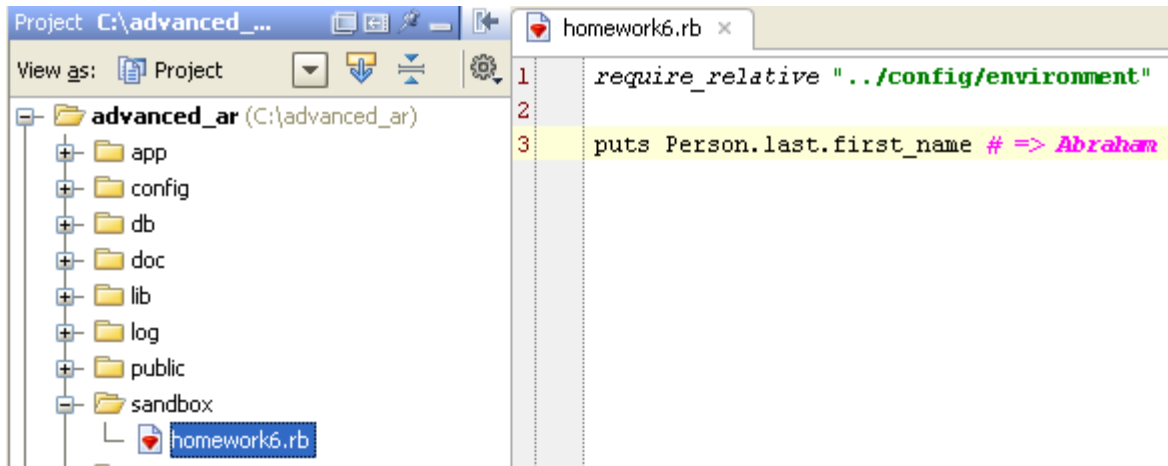
The entities you need to represent are as follows:

1. User model with 2 fields – *login* and *password*.
2. User's Account model with 4 fields – *gender*, *age*, *first_name* and *last_name*.
3. User's `ToDoList` model with 2 fields – *list_name* and *list_due_date*.
 - a. The idea is that a user should be able to write up many "todo" lists, say one for that vacation to Disney Land ("Buy tickets", "Reserve hotel", "Bring the car to mechanic" etc.) and maybe another for a business trip to Alaska ("Buy a hunting rifle", "Buy a really warm coat" etc.)
4. Each `ToDoList` might have many `ToDoItems` with 3 fields – *due_date*, *task_title* and *description* (where the items listed above in 3a correspond to *task_titles*).
5. There should also be a `Tag` model, which will have just one field – *tag_name*. Tags will be things like "business trips" or "vacations". A single `ToDoItem` may be tagged with multiple Tags and a single Tag may contain multiple `ToDoItems`.

You are to do produce the following:

1. A basic ER diagram for the models described above (include any join tables if there are any as well as :through relationships if you end up needing any).
2. Create Models and Migrations for the above description (so that I can run `rake db:migrate` or `rake db:schema:load` and recreate your DB).
3. Provide some seed data (on which I can just run `rake db:seed`).
4. In addition to being able to get to `ToDoItems` from `ToDoLists`, map `ToDoItems` directly on the `User` model.
5. Validate that *gender* field (on `Account` model) only accepts: "male", "female" or "N/A" values and *age* field can only accept an integer for its input.
6. Create a default scope for `ToDoItem` and `ToDoList` that will return them in due date ascending order (by default), so that I can see the ones due soon first.
7. Create a file called **homework6.rb** inside (newly created) **sandbox** folder and show me that 4, 5 and 6 above are working. Also, demonstrate all the basic relationships between all the other models by coding a few retrieves on each (obviously only the ones that are related to each other in the description above). You will not need to start the server or rails console to run this

file, but will need to include config/environment file (so that Ruby can find ActiveRecord along with the database information).



Submission Guidelines

1. Commit all the files to your local repo and push your repo out to your private team repo on github creating a remote branch called homework6.
2. For this homework, it might make the most sense to work on a master branch of a newly created repo and then do `$git push remote_alias master:homework6` to push it out to github.
3. Feel free to include a README.txt with any comments, as well as your deployed homework URL