Validate multiple contexts together in Rails 5

By Vijay Kumar Agrawal in Rails 5 on April 08, 2016

This blog is part of our Rails 5 series.

Active Record <u>validation</u> is a well-known and widely used functionality of Rails. Slightly lesser popular is Rails's ability to validate on custom context.

If used properly, contextual validations can result in much cleaner code. To understand validation context, we will take example of a form which is submitted in multiple steps:

```
class MultiStepForm < ActiveRecord::Base
  validate :personal_info
  validate :education, on: :create
  validate :work_experience, on: :update
  validate :final_step, on: :submission

def personal_info
    # validation logic goes here..
end

# Smiliary all the validation methods go here.
end</pre>
```

Let's go through all the four validations one-by-one.

- 1. personal_info validation has no context defined (notice the absence of on:). Validations with no context are executed every time a model save is triggered. Please go through all the triggers here.
- 2. education validation has context of :create. It is executed only when a new object is created.
- 3. work_experience validation is in :update context and gets triggered for updates only. :create and :update are the only two pre-defined contexts.
- 4. final_step is validated using a custom context named :submission. Unlike above scenarios, it needs to be explicitly triggered like this:

```
form = MultiStepForm.new

# Either
form.valid?(:submission)

# Or
form.save(context: :submission)
```

valid? runs the validation in given context and populates errors. save would first call valid? in the given context and persist the changes if validations pass.

Otherwise populates errors.

One thing to note here is that when we validate using an explicit context, Rails bypasses all other contexts including :create and :update.

Now that we understand validation context, we can switch our focus to *validate multiple context together* <u>enhancement</u> in Rails 5.

Let's change our contexts from above example to

```
class MultiStepForm < ActiveRecord::Base
  validate :personal_info, on: :personal_submission
  validate :education, on: :education_submission
  validate :work_experience, on: :work_ex_submission
  validate :final_step, on: :final_submission

def personal_info
    # code goes here..
end

# Smiliary all the validation methods go here.
end</pre>
```

For each step, we would want to validate the model with all previous steps and avoid all future steps. Prior to Rails 5, this can be achieved like this:

Notice that valid? takes only one context at a time. So we have to repeatedly call valid? for each context.

This gets simplified in Rails 5 by enhancing valid? and invalid? to accept an array. Our code changes to:

A tad bit cleaner I would say.

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