Getting to know Factory Girl

Sameera (Sam) sameera 207

reinteractive

Why we need sample data?

Simple rails example

```
# test/fixtures/users.yml
one:
  name: MyString
  email: MyString
```

two:

name: MyString

email: MyString

FactoryGirl

- factorygirl gem
- <u>factorygirl rails, for rails projects</u>

Best practices when creating a factory

- have a factory for each class (E.g spec/factories/user.rb)
- provide the bare minimal attributes for the factory

basic factory

```
FactoryGirl.define do
  factory : user do
    name 'Sameera'
    email 'sameera207@gmail.com'
    confirmed_at '2017-03-11 11:25'
  end
end
FactoryGirl.create :user
```

Overriding factory attributes

FactoryGirl.create :user, email: 'test@gmail.com'

Dynamic attributes with factories

```
FactoryGirl.define do
  factory :user do
   name 'Sameera'
  email 'sameera207@gmail.com'
  confirmed_at { 2.days.ago }
  end
end
```

create vs build vs attributes_for

- create (saves the instance)
- build (only build the instance and will not save)
- attributes_for returns hash of attributes

Aliases and Associations

```
# app/models.user.rb
class User < ActiveRecord::Base</pre>
  has_many :books, foreign_key: 'author_id'
    validates :name, presence: true
end
# app/models/book.rb
class Book < ActiveRecord::Base</pre>
  belongs_to :author, class_name: 'User'
end
```

...updating factories

```
# spec/factories/user.rb
FactoryGirl.define do
  factory :user, aliases: [:author] do
    name 'Sameera'
    email 'sameera207@gmail.com'
    confirmed_at { 2.days.ago }
 end
end
# spec/factories/book.rb
FactoryGirl.define do
  factory : book do
    author # association :author, factory: :user
        name "Book1"
 end
end
```

Transient Attributes

```
# spec/factories/user.rb
FactoryGirl.define do
  factory :user, aliases: [:author] do
        transient do
            display_name false
        end
    name { "sameera #{email if display_name}" }
    email 'sameera207@gmail.com'
    confirmed_at { 2.days.ago }
  end
end
FactoryGirl.create :user, display_name: true
```

Traits

```
# spec/factories/book.rb
FactoryGirl.define do
  factory :book do
   author
   name "Book1"
   trait :published do
     published true
   end
    trait :unpublished do
     published false
   end
    factory :published_book, traits: [:published]
                                traits: [:unpublished]
    factory :un_published_book,
 end
end
FactoryGirl.create :published_book
```

Building or Creating Multiple Records

FactoryGirl.create_list:user, 5

Lets do...

```
class User < ActiveRecord::Base
  has_many :books, foreign_key: 'author_id'</pre>
```

validates :name, presence: true, uniqueness: true end

FactoryGirl.create_list :user, 5 # -> ActiveRecord::RecordInvalid: Validation failed: Name has already been taken

Generating values dynamically

- sequence
- using a separate gem (E.g faker)

faker

faker

```
FactoryGirl.define do
  factory :user, aliases: [:author] do
   name { Faker::Name.name }
   email 'sameera207@gmail.com'
   confirmed_at { 2.days.ago }
  end
end
```

Thank you!!!