**Redmine - Patch #31384**  
**Remove custom lazy loading of i18n files**  
2019-05-17 16:55 - Pavel Rosický

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
<th>Start date:</th>
<th></th>
<th>Due date:</th>
<th>% Done:</th>
<th>Estimated time:</th>
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<td>0.00 hour</td>
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<tr>
<td>Assignee:</td>
<td>Jean-Philippe Lang</td>
<td></td>
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<td></td>
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</tr>
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<td>Category:</td>
<td>Code cleanup/refactoring</td>
<td></td>
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</table>

**Description**

i18n gem was updated in #29946 (4.1.0)

this caused a regression with these translations

```
numbers:
  '1': One
  '2': Two
  '3': Three
```

```
I18n.t('1', scope: [:numbers])
```

Failure/Error: _key = _key.to_sym

NoMethodError: undefined method `to_sym' for 2:Integer

Did you mean? to_s

```
# ./lib/redmine/i18n.rb:206:in `block in lookup'
# ./lib/redmine/i18n.rb:205:in `each'
# ./lib/redmine/i18n.rb:205:in `inject'
# ./lib/redmine/i18n.rb:205:in `lookup'
#/usr/local/rvm/gems/ruby-2.5.3-railsexpress/gems/i18n-1.6.0/lib/i18n/backend/base.rb:32:in `translate'
```

the problem is in redmine, because it uses a custom backend that overrides the original behaviour and it wasn't updated accordingly

see the original PR [https://github.com/ruby-i18n/i18n/pull/422](https://github.com/ruby-i18n/i18n/pull/422)  
also this change doesn't work [https://github.com/ruby-i18n/i18n/pull/469](https://github.com/ruby-i18n/i18n/pull/469)

attached patch fixes the problem by removing most of the custom backend in redmine

**Related issues:**

Blocks Redmine - Feature # 29946: Update i18n gem (~> 1.6.0)  
Associated revisions

Revision 18286 - 2019-06-20 10:41 - Jean-Philippe Lang

Removes lazy loading of i18n files for 18n 1.6.0 compat (#31384).

**History**

#1 - 2019-05-19 15:28 - Go MAEDA

- Related to Feature #29946: Update i18n gem (~> 1.6.0) added
Jean-Philippe, please take a look at the patch proposed by Pavel as a fix to a problem that was introduced by me when we updated the i18n gem to 1.6.0 (#29946).

For me, the change looks good, especially because we drop quite a lot of custom code.

Jean-Philippe Lang wrote:

For me, the change looks good, especially because we drop quite a lot of custom code.

Sure but it also removes the feature that this custom code provides :-)

Pavel Rosický wrote:

thanks for the feedback. You're right, i18n gem provides lazy loading for translations, but it loads all available translations at once.

the original redmine backend loaded only the current locale and this optimization was removed.

here's a benchmark on a clean redmine instance (without plugins)

<table>
<thead>
<tr>
<th></th>
<th>1.859000</th>
<th>1.515000</th>
<th>3.374000</th>
<th>3.379579</th>
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</thead>
<tbody>
<tr>
<td>load all locales</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>load the current locale (english)</td>
<td>0.079000</td>
<td>0.063000</td>
<td>0.142000</td>
<td>0.141866</td>
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</table>
on production all translations should be eager loaded, but on development the first request time is now significantly worse. Do you think it's worth to restore the optimization or improve it in the i18n gem?

Files

<table>
<thead>
<tr>
<th>Name</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<tr>
<td>i18n.rb.patch</td>
<td>2.85 KB</td>
<td>2019-05-17</td>
<td>Pavel Rosický</td>
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