

## Redmine - Defect #38155

### RuntimeError when reloading Rails console

2023-01-05 18:24 - Thomas Löber

|   |               |                          |           |
|---|---------------|--------------------------|-----------|
| <b>Status:</b>  | Closed        | <b>Start date:</b>       |           |
| <b>Priority:</b>  | Normal        | <b>Due date:</b>         |           |
| <b>Assignee:</b>  | Go MAEDA      | <b>% Done:</b>           | 0%        |
| <b>Category:</b>  | Rails support | <b>Estimated time:</b>   | 0.00 hour |
| <b>Target version:</b>  | 6.0.0         | <b>Affected version:</b> |           |
| <b>Resolution:</b>  | Fixed         |                          |           |
| <b>Description</b>  |               |                          |           |
| Hi!   |               |                          |           |
| When I start a Rails console in <i>development</i> and at some point run a reload! to reload changes I have just made to the source code, I get a RuntimeError:   |               |                          |           |
| <pre>&gt; rails console Loading development environment (Rails 6.1.7) irb(main):001:0&gt; reload! Reloading... Traceback (most recent call last):   7: from config/initializers/30-redmine.rb:11:in `block in &lt;top (required)&gt;'   6: from lib/redmine/preparation.rb:163:in `prepare'   5: from lib/redmine/menu_manager.rb:251:in `map'   4: from lib/redmine/preparation.rb:164:in `block in prepare'   3: from lib/redmine/menu_manager.rb:321:in `push'   2: from lib/redmine/menu_manager.rb:403:in `add'   1: from lib/redmine/menu_manager.rb:386:in `add_at' RuntimeError (Child already added)</pre> |               |                          |           |
| The source of the error is Redmine::Preparation.prepare, which is called in this to_prepare block in config/initializers/30-redmine.rb:   |               |                          |           |
| <pre>Rails.application.config.to_prepare do   I18n.backend = Redmine::I18n::Backend.new   # Forces I18n to load available locales from the backend   I18n.config.available_locales = nil    Redmine::Preparation.prepare end</pre>  |               |                          |           |
| The reason for the error is that Rails.application.reloader.reload! correctly runs the prepare callbacks twice, but Redmine::Preparation.prepare does not support being called multiple times.  |               |                          |           |
| From <a href="https://github.com/rails/rails/pull/28111#issuecomment-285370954">https://github.com/rails/rails/pull/28111#issuecomment-285370954</a> :  |               |                          |           |
| <p>We already call prepare a thoroughly variable number of times -- if your prepare handler isn't idempotent, you're going to have a bad time.</p>  |               |                          |           |
| So I changed the classes used in Redmine::Preparation to be idempotent. Please see the attached patch.  |               |                          |           |
| Now reloading works:  |               |                          |           |
| <pre>Reloading... =&gt; true</pre>  |               |                          |           |
| Best regards,<br>Thomas   |               |                          |           |

#### Associated revisions

## Revision 22681 - 2024-02-05 14:39 - Go MAEDA

Fix RuntimeError on `reload!` in the Rails console (#38155).

Patch by Thomas Löber (@tloeber).

## Revision 22683 - 2024-02-07 01:59 - Go MAEDA

Fix RuboCop offense Layout/EmptyLineAfterGuardClause (#38155).

## History

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### #1 - 2023-01-06 00:24 - Go MAEDA

- *Tracker changed from Patch to Defect*
- *Status changed from New to Confirmed*

### #2 - 2023-01-24 11:43 - Mischa The Evil

I've had a quick look at the attached patch file (didn't test it though). It seems to also change/break some features too, namely:

- Feature [#14008](#) (Add a warning if 2 plugins have the same settings partial name);
- Protection against registering multiple wiki formatters with the same name.

This should be tested carefully before it is being committed.

### #3 - 2023-01-24 14:25 - Thomas Löber

- *File `Make_Redmine_preparation_idempotent_v2.patch` added*

You are absolutely right. I have added an updated patch. (I am not allowed to delete the first patch, though.)

### #4 - 2023-12-28 03:35 - Go MAEDA

- *Target version set to 6.0.0*

Setting the target version to 6.0.0.

### #5 - 2024-02-05 14:40 - Go MAEDA

- *Subject changed from `Redmine 5: RuntimeError when reloading Rails console` to `RuntimeError when reloading Rails console`*
- *Category set to `Rails support`*
- *Status changed from `Confirmed` to `Closed`*
- *Assignee set to `Go MAEDA`*
- *Resolution set to `Fixed`*

Committed the patch in [r22681](#). Thank you.

## Files

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|   |         |            |              |
|---|---------|------------|--------------|
| <code>Make_Redmine_preparation_idempotent.patch</code>    | 2.78 KB | 2023-01-05 | Thomas Löber |
| <code>Make_Redmine_preparation_idempotent_v2.patch</code> | 2.9 KB  | 2023-01-24 | Thomas Löber |