Redmine - Defect #33206

Unable to autoload constant Version.table_name if gems uses Version class

2020-03-29 08:59 - Alexander Meindl

Status:	Closed	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	Go MAEDA	**% Done:**	0%
Category:	Gems support	**Estimated time:**	0.00 hour
Target version:	4.1.2		
Resolution:	Fixed	**Affected version:**	

Description

Introduced with r18780 Version.table_name is not available, if a gem package (like attr_encrypted) is used with a class named "Version".

At the moment this problem does not exist with Gem packages from Redmine itself, but gems from plugins.

Existing tests are broken, e.g.

```
bin/rails test test/unit/project_test.rb -n test_move_a_root_project_to_a_project
# Running:

E

Error:
ProjectTest#test_move_a_root_project_to_a_project:
NoMethodError: undefined method `table_name' for AttrEncrypted::Version:Module
    app/models/issue.rb:1739:in `update_versions'
    app/models/issue.rb:1385:in `update_versions_from_hierarchy_change'
    app/models/project.rb:935:in `update_versions_from_hierarchy_change'
    app/models/project.rb:424:in `set_parent!'
    test/unit/project_test.rb:316:in `test_move_a_root_project_to_a_project'
```

Similar problem was #23269. A better description of the problem with examples are here:
https://stackoverflow.com/questions/21115567/autoloading-classes-using-class-self-in-rails

I added a patch for a more solid solution to prevent the problem. It would be great to have this change in Redmine.

Associated revisions

Revision 20760 - 2021-03-03 15:39 - Go MAEDA

Unable to autoload constant Version.table_name if gems use Version class (#33206).

Patch by Alexander Meindl.

Revision 20761 - 2021-03-04 01:42 - Go MAEDA

Merged r20760 from trunk to 4.1-stable (#33206).

History

#1 - 2020-03-29 09:33 - Alexander Meindl

- File full_qualified_version_class_version2.patch added

I added another version of patch, which uses Rails 5 where.not and Arel::Table. With this solution, no more table name specification is required.

Both solutions work, but second one is more cleaner - but more refactoring.

#2 - 2021-03-01 15:58 - Go MAEDA

- Tracker changed from Patch to Defect

- Status changed from New to Confirmed

- Target version set to Candidate for next minor release

Steps to reproduce the issue:

```
echo gem \'attr_encrypted\' >> Gemfile.local
bundle install
bin/rails test test/unit/project_test.rb -n test_move_a_root_project_to_a_project
```

#3 - 2021-03-01 18:48 - Pavel Rosický

I think the first variant should be preferred, see https://github.com/rails/rails/issues/36761

#4 - 2021-03-02 03:25 - Go MAEDA

- Target version changed from Candidate for next minor release to 4.0.8

I will commit the former patch, full_qualified_version_class.patch soon.

#5 - 2021-03-03 15:39 - Go MAEDA

- Status changed from Confirmed to Resolved

- Assignee set to Go MAEDA

- Resolution set to Fixed

Committed the patch. Thank you for reporting and fixing the issue.

#6 - 2021-03-04 01:44 - Go MAEDA

- Status changed from Resolved to Closed

- Target version changed from 4.0.8 to 4.1.2

Files

full_qualified_version_class.patch	858 Bytes	2020-03-29	Alexander Meindl
full_qualified_version_class_version2.patch	1.46 KB	2020-03-29	Alexander Meindl