

Redmine - Feature #42673

Optimize `Version::FixedIssuesExtension#issues_progress` by avoiding repeated `Issue#closed?` calls

2025-05-05 10:15 - Go MAEDA

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Performance	Estimated time:	0.00 hour
Target version:	6.1.0		
Resolution:	Fixed		

Description

The issues_progress(open) method in Version::FixedIssuesExtension calls Issue#closed? inside a loop to determine whether each issue is open or closed. This leads to redundant database queries to fetch IssueStatus records, even though the issues are already filtered by status using the open argument via the self.open(open) scope.

Since the method already knows whether it is iterating over open or closed issues based on the open argument, this closed? check is unnecessary. This patch replaces the condition c.closed? ? 100 : (c.done_ratio || 0) with logic that uses the open flag directly, avoiding unnecessary calls to Issue#closed? and reducing database queries.

This improves performance, especially when processing a large number of issues.
For example, when rendering the /roadmap page with 60 versions and 3000 issues:

Without applying the patch:

Completed 200 OK in 2018ms (Views: 1833.5ms | ActiveRecord: 78.2ms (9539 queries, 9181 cached) | GC: 204.2ms)

Completed 200 OK in 1987ms (Views: 1827.9ms | ActiveRecord: 64.3ms (9539 queries, 9181 cached) | GC: 176.4ms)

Completed 200 OK in 1993ms (Views: 1848.0ms | ActiveRecord: 62.4ms (9539 queries, 9181 cached) | GC: 177.8ms)

Completed 200 OK in 1995ms (Views: 1832.9ms | ActiveRecord: 64.8ms (9539 queries, 9181 cached) | GC: 175.3ms)

Completed 200 OK in 1988ms (Views: 1828.8ms | ActiveRecord: 63.8ms (9539 queries, 9181 cached) | GC: 179.0ms)

With applying the patch:

Completed 200 OK in 1714ms (Views: 1558.2ms | ActiveRecord: 61.6ms (6537 queries, 6185 cached) | GC: 163.7ms)

Completed 200 OK in 1660ms (Views: 1512.0ms | ActiveRecord: 55.8ms (6537 queries, 6185 cached) | GC: 153.8ms)

Completed 200 OK in 1785ms (Views: 1629.3ms | ActiveRecord: 62.5ms (6537 queries, 6185 cached) | GC: 182.6ms)

Completed 200 OK in 1681ms (Views: 1524.1ms | ActiveRecord: 61.6ms (6537 queries, 6185 cached) | GC: 160.8ms)

Completed 200 OK in 1719ms (Views: 1563.3ms | ActiveRecord: 68.3ms (6537 queries, 6185 cached) | GC: 179.1ms)

Associated revisions

Revision 23747 - 2025-05-06 08:45 - Go MAEDA

Optimize `Version::FixedIssuesExtension#issues_progress` by avoiding repeated `Issue#closed?` calls (#42673).

Since the issues are already filtered by open or closed status using the `open` argument through the `self.open(open)` scope, the call to expensive method `Issue#closed?` can be safely replaced with a check of the `open` argument.

Patch by Go MAEDA (user:maeda).

History

#1 - 2025-05-05 10:15 - Go MAEDA

- File 42673.patch added

Here is a patch.

#2 - 2025-05-06 02:38 - Go MAEDA

- Target version set to 6.1.0

#3 - 2025-05-06 08:46 - Go MAEDA

- Status changed from New to Closed

- Assignee set to Go MAEDA

- Resolution set to Fixed

Committed the patch in [r23747](#).

Files

42673.patch	569 Bytes	2025-05-05	Go MAEDA
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