

Redmine - Feature #42574

Optimize autocomplete issue listing triggered by typing "##" by eager loading trackers

2025-04-12 10:44 - Go MAEDA

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Performance	Estimated time:	0.00 hour
Target version:	5.1.8		
Resolution:	Fixed		

Description

When using the autocomplete feature to list issues by typing "##", an N+1 query occurs for loading associated trackers. Each issue's tracker is queried individually.

The attached patch fixes the problem by eager-loading the tracker association.

Before:

```
Issue Load (1.2ms)  SELECT `issues`.* FROM `issues` INNER JOIN `projects` ON `projects`.`id` = `
issues`.`project_id` WHERE `issues`.`project_id` = 1 AND (projects.status <> 9 AND projects.status
<> 10 AND EXISTS (SELECT 1 AS one FROM enabled_modules em WHERE em.project_id = projects.id AND e
m.name='issue_tracking')) AND (issues.subject LIKE '%c%') ORDER BY `issues`.`id` DESC LIMIT 10
  ↳ app/controllers/auto_completes_controller.rb:36:in 'AutoCompletesController#issues'
Tracker Load (0.4ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 1 LIMIT 1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
CACHE Tracker Load (0.0ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 1 LIMIT
1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
CACHE Tracker Load (0.0ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 1 LIMIT
1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
CACHE Tracker Load (0.0ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 1 LIMIT
1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
Tracker Load (0.5ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 2 LIMIT 1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
CACHE Tracker Load (0.0ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` = 1 LIMIT
1
  ↳ app/controllers/auto_completes_controller.rb:77:in 'block in AutoCompletesController#format_is
sues_json'
```

After:

```
Issue Load (1.2ms)  SELECT `issues`.* FROM `issues` INNER JOIN `projects` ON `projects`.`id` = `
issues`.`project_id` WHERE `issues`.`project_id` = 1 AND (projects.status <> 9 AND projects.status
<> 10 AND EXISTS (SELECT 1 AS one FROM enabled_modules em WHERE em.project_id = projects.id AND e
m.name='issue_tracking')) ORDER BY `issues`.`id` DESC LIMIT 10
  ↳ app/controllers/auto_completes_controller.rb:39:in 'AutoCompletesController#issues'
Tracker Load (0.6ms)  SELECT `trackers`.* FROM `trackers` WHERE `trackers`.`id` IN (1, 2)
```

Associated revisions

Revision 23660 - 2025-04-16 08:50 - Go MAEDA

Optimize autocomplete issue listing triggered by typing "##" by eager loading trackers (#42574).

Patch by Go MAEDA (user:maeda).

**Revision 23661 - 2025-04-17 03:22 - Go MAEDA**

Merged r23660 from trunk to 6.0-stable (#42574).

**Revision 23662 - 2025-04-17 03:22 - Go MAEDA**

Merged r23660 from trunk to 5.1-stable (#42574).

**History**

---

**#1 - 2025-04-13 09:01 - Go MAEDA**

- Tracker changed from Defect to Feature
- Subject changed from N+1 query when listing issues in autocomplete to Optimize autocomplete issue listing triggered by typing "##" by eager loading trackers

**#2 - 2025-04-14 07:56 - Marius BĂLTEANU**

- Target version changed from Candidate for next minor release to 5.1.8

**#3 - 2025-04-16 08:50 - Go MAEDA**

- Status changed from New to Resolved
- Assignee set to Go MAEDA
- Resolution set to Fixed

Committed the patch in [r23660](#).

**#4 - 2025-04-17 03:23 - Go MAEDA**

- Status changed from Resolved to Closed

Merged the change into the stable branches in [r23661](#) and [r23662](#).

**Files**

---

fix-N+1-in-AutoCompletesController.patch	705 Bytes	2025-04-12	Go MAEDA
--	-----------	------------	----------