

Redmine - Feature #35324

Preload principal and roles in members#index

2021-05-28 12:29 - Thomas Löber

Status: Closed	Start date:
Priority: Normal	Due date:
Assignee: Go MAEDA	% Done: 0%
Category: Performance	Estimated time: 0.00 hour
Target version: 5.0.0	
Resolution:	
Description	
Hi,	
MembersController#index should preload the principal and roles of the members.	
When this data is not preloaded, iterating over the @members array in app/views/members/index.api.rsb causes a lot of database queries.	
A patch is attached.	
Thanks, Thomas	

Associated revisions

Revision 21052 - 2021-06-27 09:42 - Go MAEDA

Preload principal and roles in members#index (#35324).

Patch by Thomas Löber.

History

#1 - 2021-06-02 02:30 - Go MAEDA

- Target version set to Candidate for next major release

I have confirmed the issue. Before applying the patch, three SQL statements like the following are executed for each member.

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [["id", 9], ["LIMIT", 1]]

MemberRole Load (0.5ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [["member_id", 15]]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [["id", 2], ["LIMIT", 1]]

Before:

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Started GET "/projects/ecookbook/memberships.json" for 127.0.0.1 at 2021-06-02 09:15:54 +0900

Processing by MembersController#index as JSON

Parameters: {"project_id"=>"ecookbook"}

(0.2ms) SELECT MAX("settings"."updated_on") FROM "settings"

AnonymousUser Load (0.2ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ? [{"type", "AnonymousUser"}, {"lastname", "Anonymous"}, {"LIMIT", 1}]

Current user: anonymous

FilterRule Load (0.1ms) SELECT "settings".* FROM "settings" WHERE "settings"."name" = ? ORDER BY "settings"."id" DESC LIMIT ? [{"name", "plugin_redmine_ip_filter"}, {"LIMIT", 1}]

Project Load (0.1ms) SELECT "projects".* FROM "projects" WHERE "projects"."identifier" = ? LIMIT ? [{"identifier", "ecookbook"}, {"LIMIT", 1}]

(0.2ms) SELECT "enabled_modules"."name" FROM "enabled_modules" WHERE "enabled_modules"."project_id" = ? [{"project_id", 1}]

Role Load (0.5ms) SELECT "roles".* FROM "roles" WHERE "roles"."builtin" = ? LIMIT ? [{"builtin", 2}, {"LIMIT", 1}]

Member Load (0.3ms) SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE "members"."project_id" = ? AND "users"."type" IN (?, ?) [{"project_id", 1}, [nil, "GroupAnonymous"], [nil, "GroupNonMember"]]

(0.2ms) SELECT COUNT(*) FROM "members" WHERE "members"."project_id" = ? [{"project_id", 1}]

Member Load (0.2ms) SELECT "members".* FROM "members" WHERE "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ? OFFSET ? [{"project_id", 1}, {"LIMIT", 25}, {"OFFSET", 0}]

Rendering members/index.api.rsb

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 1}]

Role Load (0.2ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 1}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 3}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 2}]

Role Load (0.1ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 5}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 4}]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 1}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 11}]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 4}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 12}]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 7}, {"LIMIT", 1}]

MemberRole Load (0.2ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 13}]

CACHE Role Load (0.1ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.2ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 8}, {"LIMIT", 1}]

MemberRole Load (0.1ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 14}]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [{"id", 9}, {"LIMIT", 1}]

MemberRole Load (0.5ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" = ? [{"member_id", 15}]

CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, {"LIMIT", 1}]

Rendered members/index.api.rsb (Duration: 32.0ms | Allocations: 6057)

Completed 200 OK in 49ms (Views: 29.7ms | ActiveRecord: 4.8ms | Allocations: 9100)

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After:

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Started GET "/projects/ecookbook/memberships.json" for 127.0.0.1 at 2021-06-02 09:14:25 +0900
Processing by MembersController#index as JSON
Parameters: {"project_id"=>"ecookbook"}
(0.2ms) SELECT MAX("settings"."updated_on") FROM "settings"
AnonymousUser Load (0.2ms) SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ? [{"type",
"AnonymousUser"}, [{"lastname", "Anonymous"}, [{"LIMIT", 1}]]
Current user: anonymous
FilterRule Load (0.1ms) SELECT "settings".* FROM "settings" WHERE "settings"."name" = ? ORDER BY "settings"."id" DESC LIMIT ?
[["name", "plugin_redmine_ip_filter"], [{"LIMIT", 1}]]
Project Load (0.1ms) SELECT "projects".* FROM "projects" WHERE "projects"."identifier" = ? LIMIT ? [{"identifier", "ecookbook"}, [{"LIMIT",
1}]]
(0.2ms) SELECT "enabled_modules"."name" FROM "enabled_modules" WHERE "enabled_modules"."project_id" = ? [{"project_id", 1}]
Role Load (0.1ms) SELECT "roles".* FROM "roles" WHERE "roles"."builtin" = ? LIMIT ? [{"builtin", 2}, [{"LIMIT", 1}]]
Member Load (0.3ms) SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE
"members"."project_id" = ? AND "users"."type" IN (?, ?) [{"project_id", 1}, [nil, "GroupAnonymous"], [nil, "GroupNonMember"]]
(0.2ms) SELECT COUNT(*) FROM "members" WHERE "members"."project_id" = ? [{"project_id", 1}]
Member Load (0.2ms) SELECT "members".* FROM "members" WHERE "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT
? OFFSET ? [{"project_id", 1}, [{"LIMIT", 25}, [{"OFFSET", 0}]]
Principal Load (0.4ms) SELECT "users".* FROM "users" WHERE "users"."id" IN (?, ?, ?, ?, ?, ?, ?) [[nil, 2], [nil, 3], [nil, 5], [nil, 1], [nil, 4],
[nil, 7], [nil, 8], [nil, 9]]
MemberRole Load (0.3ms) SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" IN (?, ?, ?, ?, ?, ?)
?) [[nil, 1], [nil, 2], [nil, 4], [nil, 11], [nil, 12], [nil, 13], [nil, 14], [nil, 15]]
Role Load (0.2ms) SELECT DISTINCT "roles".* FROM "roles" WHERE "roles"."id" IN (?, ?) [[nil, 1], [nil, 2]]
Rendering members/index.api.rsb
Role Load (0.1ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 1}, [{"LIMIT", 1}]]
Role Load (0.1ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [{"id", 2}, [{"LIMIT", 1}]]
Rendered members/index.api.rsb (Duration: 12.0ms | Allocations: 2731)
Completed 200 OK in 37ms (Views: 12.3ms | ActiveRecord: 2.8ms | Allocations: 7396)
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#2 - 2021-06-03 07:11 - Go MAEDA

- Target version changed from Candidate for next major release to 5.0.0

Setting the target version to 5.0.0.

#3 - 2021-06-27 09:42 - Go MAEDA

- Status changed from New to Closed

- Assignee set to Go MAEDA

Committed the patch. Thank you for your contribution.

#4 - 2022-03-27 05:03 - Go MAEDA

- *Tracker changed from Patch to Feature*

Files

members_index_preload.diff	741 Bytes	2021-05-28	Thomas Löber
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