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 ? [["iden
tifier", "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], ["LIM
IT", 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"]
```

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```
, [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",
111
 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",
111
 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",
 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",
111
 Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [["id", 1], ["LIMIT",
111
 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",
111
 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",
111
 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",
111
 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",
111
 Principal Load (0.1ms) SELECT "users".* FROM "users" WHERE "users"."id" = ? LIMIT ? [["id", 9], ["LIMIT",
111
 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",
111
 Rendered members/index.api.rsb (Duration: 32.0ms | Allocations: 6057)
Completed 200 OK in 49ms (Views: 29.7ms | ActiveRecord: 4.8ms | Allocations: 9100)
```

After:

ShowHide

```
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 ? [["iden
tifier", "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], ["LIM
IT", 1]]
 Member Load (0.3ms) SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_
```

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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",
 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",
111
 CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [["id", 2], ["LIMIT",
111
 CACHE Role Load (0.0ms) SELECT "roles".* FROM "roles" WHERE "roles"."id" = ? LIMIT ? [["id", 2], ["LIMIT",
111
 Rendered members/index.api.rsb (Duration: 12.0ms | Allocations: 2731)
Completed 200 OK in 37ms (Views: 12.3ms | ActiveRecord: 2.8ms | Allocations: 7396)
```

#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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