

Redmine - Defect #43230

[Rails 8] ArgumentError: wrong number of arguments (given 0, expected 1) in ApplicationController#find_model_object

2025-09-21 21:41 - Marius BĂLTEANU

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:	Marius BĂLTEANU	% Done:	0%
Category:	Rails support	Estimated time:	0.00 hour
Target version:		Affected version:	
Resolution:			
Description Using Rails 8, multiple tests fail with the same error: Error: DocumentsControllerTest#test_add_attachment: ArgumentError: wrong number of arguments (given 0, expected 1) app/controllers/application_controller.rb:392:in 'model_object' app/controllers/application_controller.rb:383:in 'ApplicationController#find_model_object' lib/redmine/sudo_mode.rb:78:in 'Redmine::SudoMode::Controller#sudo_mode' I cannot find the exact issue from Rails that changed this behaviour and triggers this issue.			
Related issues: Blocks Redmine - Feature #43205: Update to Rails 8 New			

History

- #1 - 2025-09-21 21:42 - Marius BĂLTEANU
- Subject changed from ArgumentError: wrong number of arguments (given 0, expected 1) in ApplicationController#find_model_object to [Rails 8] ArgumentError: wrong number of arguments (given 0, expected 1) in ApplicationController#find_model_object
- #2 - 2025-09-21 22:12 - Marius BĂLTEANU
- File 0001-Fixes-wrong-number-of-arguments-given-0-expected-1-i.patch added
- Category set to Rails support

The simplest way to fix this is by renaming the self.model_object method to self.set_model_object to avoid collision (attached the patch).

Another way is to drop this common method added in [r3597](#) and use standard find_* methods.
- #3 - 2025-09-21 22:20 - Marius BĂLTEANU
- Related to Feature #43205: Update to Rails 8 added
- #4 - 2025-09-21 22:21 - Marius BĂLTEANU
- Related to deleted (Feature #43205: Update to Rails 8)
- #5 - 2025-09-21 22:21 - Marius BĂLTEANU
- Blocks Feature #43205: Update to Rails 8 added
- #6 - 2025-09-22 18:50 - Katsuya HIDAHA

I cannot find the exact issue from Rails that changed this behaviour and triggers this issue.

This is probably caused by an internal change to class_attribute in Rails 8.0.1:
<https://github.com/rails/rails/pull/52722/files>

It is a bit hard to explain, but the cause seems to be as follows.

Before PR#52722, when the `model_object=` method (defined by `class_attribute`) was called, the `self.model_object` method was redefined.
<https://github.com/rails/rails/pull/52722/files#diff-2cb0dc1e23cf76912807c4b255a74e23f274a8fe824a2b681014582ef9599578L108>

```
class_methods << <<~RUBY
  silence_redefinition_of_method def #{name}=(value)
    redefine_method(:#{name}) { value } if singleton_class?
    redefine_singleton_method(:#{name}) { value } # <== !!!! HERE !!!!
  value
end
RUBY
...
```

Because of this, calling `self.model_object` without arguments did not raise an error.

Below is a test in the Rails 7.2.2.2 console. Calling `Foo.value` before `Foo.value = 1` raises an error, but calling it after `Foo.value = 1` does not.

```
Loading development environment (Rails 7.2.2.2)
redmine-app(dev) * class Foo
redmine-app(dev) *   class_attribute :value
redmine-app(dev) *   def self.value(x)
redmine-app(dev) *     puts x
redmine-app(dev) *   end
redmine-app(dev) > end
=> :value
redmine-app(dev) > Foo.value
/bundle/ruby/3.4.0/gems/irb-1.15.2/lib/irb.rb:406:in 'full_message': wrong number of arguments (given 0,
expected 1) (ArgumentError)
redmine-app(dev) > Foo.value = 1
=> 1
redmine-app(dev) > Foo.value
=> 1
```

After PR#52722 (Rails 8.0.2+), this behaviour no longer exists.

So when `self.model_object` is called, it instead calls the later-defined `self.model_object(model)` method, which causes the `ArgumentError`.

#7 - 2025-09-22 20:23 - Katsuya HIDAHA

In summary, currently (before PR#52722), the following line is executed first:

https://github.com/redmine/redmine/blob/9135d9653616377dd23b8c94d788421069e46349/app/controllers/documents_controller.rb#L22

```
class DocumentsController < ApplicationController
  default_search_scope :documents
  model_object Document # <== HERE!
  ...
end
```

At this point, `self.model_object=` is called, and the method `def self.model_object(object)` is redefined by `redefine_singleton_method(:#{name}) { value }`. As a result, calling `self.model_object` after that does not invoke `self.model_object(object)`, so no error occurs.

#8 - 2025-09-22 21:38 - Marius BĂLTEANU

- Assignee set to Marius BĂLTEANU

Thanks [Katsuya HIDAHA](#) for clarifications!

Regarding the fix, which option do you think is cleaner?

#9 - 2025-09-23 10:35 - Katsuya HIDAHA

I think the attached 0001 patch is the better way to resolve this issue.

Personally, I prefer an explicit implementation without using the common method added in [r3597](#). However, the change could affect a wide range of code and potentially impact existing plugins, so it might need to be considered carefully.

Right now this issue breaks some functionality on Rails 8. So I think resolving it first with the minimal changes in the 0001 patch is important to proceed with the Rails 8 upgrade.

After that, if needed, we could also consider dropping `find_model_object` as a code improvement.

#10 - 2025-09-23 11:01 - Katsuya HIDAHA

As a minor variant of the 0001 patch, it could also be an option to simply use the setter method `self.model_object=` defined by `class_attribute :model_object` instead of the `self.model_object(model)` method, like in the code below.

[code to simply use self.model_object=](#)[code to simply use self.model_object=](#)

```

diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index a01d5c75f..d06344c0a 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -389,10 +389,6 @@ class ApplicationController < ActionController::Base
  render_404
end

- def self.model_object(model)
-   self.model_object = model
- end
-
  # Find the issue whose id is the :id parameter
  # Raises a Unauthorized exception if the issue is not visible
  def find_issue
diff --git a/app/controllers/comments_controller.rb b/app/controllers/comments_controller.rb
index 4043db08b..d04b5ed8d 100644
--- a/app/controllers/comments_controller.rb
+++ b/app/controllers/comments_controller.rb
@@ -18,8 +18,9 @@
  # Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class CommentsController < ApplicationController
+ self.model_object = News
+
  default_search_scope :news
- model_object News
  before_action :find_model_object
  before_action :find_project_from_association
  before_action :authorize
diff --git a/app/controllers/documents_controller.rb b/app/controllers/documents_controller.rb
index bd6c3f461..4e2c255d5 100644
--- a/app/controllers/documents_controller.rb
+++ b/app/controllers/documents_controller.rb
@@ -18,8 +18,9 @@
  # Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class DocumentsController < ApplicationController
+ self.model_object = Document
+
  default_search_scope :documents
- model_object Document
  before_action :find_project_by_project_id, :only => [:index, :new, :create]
  before_action :find_model_object, :except => [:index, :new, :create]
  before_action :find_project_from_association, :except => [:index, :new, :create]
diff --git a/app/controllers/issue_categories_controller.rb b/app/controllers/issue_categories_controller.rb
index 6148fe663..b184d0ac1 100644
--- a/app/controllers/issue_categories_controller.rb
+++ b/app/controllers/issue_categories_controller.rb
@@ -18,8 +18,9 @@
  # Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class IssueCategoriesController < ApplicationController
+ self.model_object = IssueCategory
+
  menu_item :settings
- model_object IssueCategory
  before_action :find_model_object, :except => [:index, :new, :create]
  before_action :find_project_from_association, :except => [:index, :new, :create]
  before_action :find_project_by_project_id, :only => [:index, :new, :create]
diff --git a/app/controllers/members_controller.rb b/app/controllers/members_controller.rb
index 3f7b376c6..db2a2be7b 100644
--- a/app/controllers/members_controller.rb
+++ b/app/controllers/members_controller.rb
@@ -18,7 +18,8 @@
  # Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class MembersController < ApplicationController
- model_object Member
+ self.model_object = Member
+
  before_action :find_model_object, :except => [:index, :new, :create, :autocomplete]
  before_action :find_project_from_association, :except => [:index, :new, :create, :autocomplete]
  before_action :find_project_by_project_id, :only => [:index, :new, :create, :autocomplete]
diff --git a/app/controllers/news_controller.rb b/app/controllers/news_controller.rb

```

```

index dd6bade24..57e0ff28d 100644
--- a/app/controllers/news_controller.rb
+++ b/app/controllers/news_controller.rb
@@ -18,8 +18,9 @@
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class NewsController < ApplicationController
+ self.model_object = News
+
+ default_search_scope :news
- model_object News
+ before_action :find_model_object, :except => [:new, :create, :index]
+ before_action :find_project_from_association, :except => [:new, :create, :index]
+ before_action :find_project_by_project_id, :only => :create
diff --git a/app/controllers/versions_controller.rb b/app/controllers/versions_controller.rb
index 328d3e56e..bdc909d25 100644
--- a/app/controllers/versions_controller.rb
+++ b/app/controllers/versions_controller.rb
@@ -18,8 +18,9 @@
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

class VersionsController < ApplicationController
+ self.model_object = Version
+
+ menu_item :roadmap
- model_object Version
+ before_action :find_model_object, :except => [:index, :new, :create, :close_completed]
+ before_action :find_project_from_association, :except => [:index, :new, :create, :close_completed]
+ before_action :find_project_by_project_id, :only => [:index, :new, :create, :close_completed]

```

Files

0001-Fixes-wrong-number-of-arguments-given-0-expected-1-i.patch	4.37 KB	2025-09-21	Marius BĂLTEANU
---	---------	------------	-----------------