

Redmine - Patch #40802

Support builder 3.3.0

2024-06-06 21:05 - Pavel Rosický

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Gems support	Estimated time:	0.00 hour
Target version:	5.0.9		

Description

== Version 3.3.0

- Use BasicObject instead of BlankSlate for better compatibility with modern rubies. <https://github.com/rails/builder/pull/15>

unfortunately, this change breaks Redmine's API. **LoadError: cannot load such file -- blankslate**

the following patch removes that dependency in favor of BasicObject

```
diff --git a/lib/redmine/views/builders/json.rb b/lib/redmine/views/builders/json.rb
index 47ce0cc9b..011c16e58 100644
--- a/lib/redmine/views/builders/json.rb
+++ b/lib/redmine/views/builders/json.rb
@@ -28,7 +28,7 @@ module Redmine
   def initialize(request, response)
     super
     callback = request.params[:callback] || request.params[:jsonp]
-    if callback && Setting.jsonp_enabled?
+    if callback && ::Setting.jsonp_enabled?
       self.jsonp = callback.to_s.gsub(/[\^a-zA-Z0-9_\.]/, '')
     end
   end
end

diff --git a/lib/redmine/views/builders/structure.rb b/lib/redmine/views/builders/structure.rb
index f4524143f..able3e411 100644
--- a/lib/redmine/views/builders/structure.rb
+++ b/lib/redmine/views/builders/structure.rb
@@ -17,12 +17,10 @@
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

-require 'blankslate'
-
module Redmine
  module Views
    module Builders
-      class Structure < BlankSlate
+      class Structure < BasicObject
        def initialize(request, response)
          @struct = [{}]
          @request = request
@@ -38,7 +36,7 @@ module Redmine
        end

        def encode_value(value)
-          if value.is_a?(Time)
+          if value.is_a?(::Time)
            # Rails uses a global setting to format JSON times
            # Don't rely on it for the API as it could have been changed
            value.xmlschema(0)
@@ -49,15 +47,15 @@ module Redmine

        def method_missing(sym, *args, &block)
```

```

    if args.count > 0
-     if args.first.is_a?(Hash)
-       if @struct.last.is_a?(Array)
+     if args.first.is_a?(:Hash)
+       if @struct.last.is_a?(:Array)
          @struct.last << args.first unless block
        else
          @struct.last[sym] = args.first
        end
      else
        value = encode_value(args.first)
-       if @struct.last.is_a?(Array)
+       if @struct.last.is_a?(:Array)
          if args.size == 1 && !block
            @struct.last << value
          else
@@ -69,13 +67,13 @@ module Redmine
      end
    end
    if block
-     @struct << (args.first.is_a?(Hash) ? args.first : {})
+     @struct << (args.first.is_a?(:Hash) ? args.first : {})
      yield(self)
      ret = @struct.pop
-     if @struct.last.is_a?(Array)
+     if @struct.last.is_a?(:Array)
        @struct.last << ret
      else
-     if @struct.last.has_key?(sym) && @struct.last[sym].is_a?(Hash)
+     if @struct.last.has_key?(sym) && @struct.last[sym].is_a?(:Hash)
        @struct.last[sym].merge! ret
      else
        @struct.last[sym] = ret

```

Related issues:

Has duplicate Redmine - Defect #40921: JSON API causes 500 Internal Server Error

Closed

Associated revisions

Revision 22863 - 2024-06-07 06:47 - Go MAEDA

Replace BlankSlate with BasicObject for Builder 3.0.0 compatibility (#40802).

Patch by Pavel Rosický (@ahorek).

Revision 22864 - 2024-06-08 09:31 - Go MAEDA

Merged r22863 from trunk to 5.1-stable (#40802).

Revision 22865 - 2024-06-08 09:33 - Go MAEDA

Merged r22863 from trunk to 5.0-stable (#40802).

History

#1 - 2024-06-07 03:19 - Go MAEDA

- Target version set to 5.0.9

Setting the target version to 5.0.9.

#2 - 2024-06-07 05:29 - salman mp

Not only redmine APIs; It also breaks Redmine web app (redmine v4.2.11).
Thanks for given patch.

#3 - 2024-06-07 06:48 - Go MAEDA

- Subject changed from support builder 3.3.0 to Support builder 3.3.0

- Status changed from New to Resolved

- Assignee set to Go MAEDA

Committed the patch in [r22863](#). Thank you.

#4 - 2024-06-07 10:45 - Brice Beaumesnil

Hello,

This problem is on 5.1-stable branche too

Thanks.

#5 - 2024-06-07 11:00 - Go MAEDA

In the 5.0-stable branch, the test hangs if the patch is applied.

It can be reproduced by running `ruby test/integration/api_test/memberships_test.rb`. In the test/log, SystemStackError was recorded.

```
SystemStackError (stack level too deep):

lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
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lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
lib/redmine/views/builders/structure.rb:69:in `method_missing'
app/views/members/index.api.rsb:3
app/views/members/index.api.rsb:2:in `each'
app/views/members/index.api.rsb:2
lib/redmine/views/builders/structure.rb:32:in `array'
app/views/members/index.api.rsb:1
lib/redmine/views/builders.rb:38:in `for'
app/views/members/index.api.rsb:1
lib/redmine/sudo_mode.rb:61:in `sudo_mode'
test/integration/api_test/memberships_test.rb:37:in `block in <class:MembershipsTest>'
```

For 5.1-stable and 5.0-stable, is it better to pin the version of builder to 3.2 than merge the patch?

#6 - 2024-06-07 11:04 - Brice Beaumesnil

Hello

In this patch the line "require 'blankslate'" can be deleted

Thanks.

#7 - 2024-06-07 11:16 - Brice Beaumesnil

Go MAEDA wrote in [#note-5](#):

In the 5.0-stable branch, the test hangs if the patch is applied.

It can be reproduced by running `ruby test/integration/api_test/memberships_test.rb`. In the test/log, SystemStackError was recorded.

[...]

For 5.1-stable and 5.0-stable, is it better to pin the version of builder to 3.2 than merge the patch?

I try this test with success on 5.1-stable branch

Finished in 2.357875s, 5.5134 runs/s, 19.9332 assertions/s.

13 runs, 47 assertions, 0 failures, 0 errors, 0 skips

#8 - 2024-06-07 12:56 - Pavel Rosický

@go_maeda the BasicObject doesn't know the method `block_given?` see <https://ruby-doc.org/core-2.7.1/BasicObject.html> so it falls under `method_missing`, causing an infinite loop...

this can be fixed by replacing it with "::Kernel.block_given?" or a simple "block"

#9 - 2024-06-08 09:37 - Go MAEDA

- Status changed from Resolved to Closed

Pavel Rosický wrote in [#note-8](#):

@go_maeda the BasicObject doesn't know the method block_given? see <https://ruby-doc.org/core-2.7.1/BasicObject.html> so it falls under method_missing, causing an infinite loop...

this can be fixed by replacing it with "::Kernel.block_given?" or a simple "block"

Thank you for debugging the issue, the block_given? was replaced with block in [r22027](#) but the 5.0-stable branch still uses it. This is the reason why the infinite loop happens in the 5.0-stable.

I have merged the fix to the stable branches.

#10 - 2024-06-18 11:03 - Vincent Robert

I don't know how, but Redmine 4.2 seems impacted by this change. All our automated tests under Redmine 4 are now failing with this error message:

```
Run bundle exec rake db:create db:migrate
rake aborted!
LoadError: cannot load such file -- blankslate
/redmine/lib/redmine/views/builders/structure.rb:20:in `'
/redmine/lib/redmine/views/builders/json.rb:20:in `'
/redmine/lib/redmine/views/builders.rb:20:in `'
/redmine/lib/redmine.rb:64:in `'
/redmine/config/initializers/30-redmine.rb:7:in `'
```

#11 - 2024-06-18 11:08 - Go MAEDA

Redmine 4.2 is no longer supported but you can fix the error by adding the following line to Gemfile.local.

```
gem 'builder', '~> 3.2.4'
```

#12 - 2024-06-21 17:31 - Jonathan Cormier

Go MAEDA wrote in [#note-11](#):

Redmine 4.2 is no longer supported but you can fix the error by adding the following line to Gemfile.local.

[...]

Thanks

#13 - 2024-07-03 15:01 - Holger Just

- Has duplicate Defect #40921: JSON API causes 500 Internal Server Error added