

Redmine - Patch #38772

<=> should return nil when invoked with an incomparable object

2023-06-25 06:37 - Go MAEDA

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	Code cleanup/refactoring	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	5.1.0		

**Description**

`<=>` method of Ruby's standard classes returns nil if it is invoked with an incomparable object. For example, `1 <=> nil` returns nil. But in Redmine, ``<=>`` methods in most classes raises an exception.

One of the problems that this can cause is the following indirect error messages when comparisons are made between incomparable objects.

```
irb(main):002:0> [IssuePriority.first, nil].sort
Traceback (most recent call last):
  1: from app/models/enumeration.rb:94:in `<=>'
NoMethodError (undefined method `position' for nil:NilClass)
```

The attached patch adds a type check and fixes the behavior to return nil.

**Before:**

```
irb(main):001:0> IssuePriority.first <=> nil
Traceback (most recent call last):
  1: from app/models/enumeration.rb:94:in `<=>'
NoMethodError (undefined method `position' for nil:NilClass)
irb(main):002:0> [IssuePriority.first, nil].sort
Traceback (most recent call last):
  1: from app/models/enumeration.rb:94:in `<=>'
NoMethodError (undefined method `position' for nil:NilClass)
irb(main):003:0> IssuePriority.first <=> Tracker.last
=> -1
```

**After:**

```
irb(main):001:0> IssuePriority.first <=> nil
=> nil
irb(main):002:0> [IssuePriority.first, nil].sort
(irb):2:in `sort': comparison of IssuePriority with nil failed (ArgumentError)
irb(main):003:0> IssuePriority.first <=> Tracker.last
=> nil
```

**Related issues:**

Related to Redmine - Defect #32704: ActionView::Template::Error (undefined me...	Closed
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Associated revisions

Revision 22269 - 2023-06-29 16:42 - Go MAEDA

<=> operator should return nil when invoked with an incomparable object (#38772).

Patch by Go MAEDA.

History

#1 - 2023-06-25 06:57 - Go MAEDA

- Related to Defect #32704: ActionView::Template::Error (undefined method `position' for nil:NilClass): added

#2 - 2023-06-26 10:23 - Holger Just  
LGTM!

#3 - 2023-06-26 12:04 - Go MAEDA  
- *Description updated*  
- *Target version set to 5.1.0*

#4 - 2023-06-29 16:42 - Go MAEDA  
- *Status changed from New to Closed*  
- *Assignee set to Go MAEDA*

Committed the patch.

Files

add_type_check_in_spaceship_operators.patch	6.28 KB	2023-06-25	Go MAEDA
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