Redmine - Defect #33415

Issue#closable? doesn't handle the case of issues with open subtask(s) and being blocked by other open issue(s)

2020-05-08 07:41 - Mischa The Evil

<table>
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<th>New</th>
<th>Start date:</th>
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<td>Category:</td>
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<tr>
<td>Target version:</td>
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<td>Affected version:</td>
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Description
Subject says it all. Given the current incarnation of Issue#closable?, the transition warning for an issue instance that is being blocked while simultaneously having (an) open subtask(s) does not include the 'being blocked' reason (as such including only the 'open subtask(s)' reason).

Related issues:
Related to Redmine - Feature #31589: Show warning and the reason when the iss... Closed

History
#1 - 2020-05-08 07:42 - Mischa The Evil
- Related to Feature #31589: Show warning and the reason when the issue cannot be closed because of open subtasks or blocking open issue(s) added

#2 - 2020-05-11 07:39 - Mischa The Evil
- File 0001-POC-fix-for-33415.patch added

Here's a preliminary POC fix against current master. Please review and comment.

#3 - 2020-05-15 08:59 - Mischa The Evil
- Assignee set to Mischa The Evil

I'll post an improved and more cleaned-up iteration of this patch later today.

#4 - 2020-05-16 07:54 - Mischa The Evil
- File 0001-Fix-33415-by-re-implementing-31589.patch added
- Assignee deleted (Mischa The Evil)

Here's the updated patch that replaces 0001-POC-fix-for-33415.patch (which I won't delete for patch evolution review purposes). The patch is no longer a POC nor is it a final patch yet. There are still some small todo's left.

I ended up re-implementing #31589 in a slightly different manner to let Issue#closable? support the given case of issues with open subtask(s) while simultaneously being blocked by (an)other open issue(s).

Please review and let me know your comments.

#5 - 2020-05-17 10:38 - Marius BĂLTEANU
Mischa, the scope of this issue is to show in the UI all the reasons for why an issue cannot be closed, right?

#6 - 2020-05-18 07:20 - Mischa The Evil
- Assignee set to Mischa The Evil

Marius BALTEANU wrote:

Mischa, the scope of this issue is to show in the UI all the reasons for why an issue cannot be closed, right?

Yes. At the moment, calling closable? on an issue that meets both the conditions (descendants.open.any? and blocked?) returns (somewhat)
correctly, but doesn't populate the correct (n)or complete reason. The cause of this is that Issue#closable? returns from the descendants.open.any? branch, as such not reaching the other if-branch. Likewise is support for a transition warning for an issue that meets both the conditions not implemented currently.

Marius BALTEANU wrote:

[... ] show in the UI [...] Not only. The CLI should also return the correct, precise reason. Marius BALTEANU wrote:

[... ] all the reasons [...]

All, except the workflow transition rules. As such can there be four transition warnings in total:

- three transition warnings for Issue#closable?:
  1. descendants.open.any?
  2. blocked?
  3. descendants.open.any? && blocked?

- one transition warning for Issue#reopenable?:
  1. ancestors.open(false).any?

I noticed that I have added more complexity than needed in the previous patches. I'll post an updated patch using a more simplified approach later today.

#7 - 2020-05-19 06:13 - Mischa The Evil
- File 0001-Fix-33415-by-re-implementing-31589-simplified.patch added
- Assignee deleted (Mischa The Evil)

Here's the updated patch that replaces both 0001-Fix-33415-by-re-implementing-31589.patch and 0001-POC-fix-for-33415.patch (which I won't delete for patch evolution review purposes). I don't consider the patch final yet. There are still some small todo's remaining, which I'd like to review and fix-if-needed first.

In this iteration I have removed the unnecessary complexity that I added previously to prevent unnecessarily calling methods multiple times. I simplified the taken approach to handle this, so this complexity wasn't needed any longer.

Some (additional) notes on the patch:

- Code comments added to methods to clearly indicate what functionality they actually provide. A plugin developer looking at what's available for use might expect something other than what's covered by these methods. Maybe we should even shield them for internal use only?
- Replaced short, single condition if structures to use a single-line if modifier.
- For the two conditions: open_sub_tasks && !open_blocking_issues and open_blocking_issues && !open_sub_tasks, the negating part is currently optional. If those parts are omitted though, the order of checking for these conditions becomes leading for the result of this method. That might not be a big issue, but it could be broken in the future in case the order in the method is changed.
- Return methods directly from within the if..elsif..else structures now we're using if..elsif structures to check for multiple conditions.

Please review and let me know your comments.

#8 - 2021-07-27 07:15 - Mischa The Evil
- Priority changed from Low to Normal
- Target version set to 5.0.0

I think this is something small that should be included in 5.0.0 at least.

#9 - 2022-03-19 11:26 - Marius BĂLTEANU
- Target version changed from 5.0.0 to Candidate for next major release

I'm postponing this because is not such a big issue that we don't provide all reasons from the beginning.

Files

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