

Redmine - Patch #42244

Fix random failures in IssuesTest#test_bulk_copy due to StaleElementReferenceError

2025-02-09 07:42 - Katsuya HIDAKA

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Code cleanup/refactoring	Estimated time:	0.00 hour
Target version:	5.1.7		
Description			
This patch addresses the issue where IssuesTest#test_bulk_copy fails randomly. Error: <pre>IssuesSystemTest#test_bulk_copy: Selenium::WebDriver::Error::StaleElementReferenceError: stale element reference: stale element not found in the current frame (Session info: chrome=132.0.6834.159); For documentation on this error, please visit: https://ww w.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception test/system/issues_test.rb:510:in `block in test_bulk_copy' test/system/issues_test.rb:509:in `test_bulk_copy'</pre> bin/rails test test/system/issues_test.rb:460 https://github.com/hidakatsuya/redmine/actions/runs/13212281635/job/36887301512 This StaleElementReferenceError is caused by the interference of DOM rewriting due to project change in page.find('#issue_project_id').select('OnlineStore'). <pre>def test_bulk_copy # ... page.find('#issue_project_id').select('OnlineStore') # wait for ajax response assert page.has_select?('issue_project_id', selected: 'OnlineStore') # ... assert_difference 'Issue.count', 2 do submit_buttons[1].click # ... end</pre> The existing implementation to wait for the project change assert page.has_select?('issue_project_id', selected: 'OnlineStore') is not working properly, so we will fix it as follows: <pre>diff --git a/test/system/issues_test.rb b/test/system/issues_test.rb index c23cbd27c..80ef25e0c 100644 --- a/test/system/issues_test.rb +++ b/test/system/issues_test.rb @@ -497,8 +497,9 @@ class IssuesSystemTest < ApplicationSystemTestCase assert_equal 'Copy', submit_buttons[0].value page.find('#issue_project_id').select('OnlineStore') - # wait for ajax response - assert page.has_select?('issue_project_id', selected: 'OnlineStore') + # Verify that the target version field has been rewritten by the OnlineStore project settings + # and wait for the project change to complete. + assert_select 'issue_fixed_version_id', options: ['(No change)', 'none', 'Alpha', 'Systemwide visible version'] assert_selector 'input[type=submit]', count: 2 submit_buttons = page.all('input[type=submit]')</pre>			

Associated revisions

Revision 23503 - 2025-02-11 03:58 - Go MAEDA

Fix random failures in `IssuesTest#test\_bulk\_copy` due to StaleElementReferenceError (#42244).

Patch by Katsuya HIDAKA (user:hidakatsuya).

Revision 23507 - 2025-02-12 04:48 - Go MAEDA

Merged r23503 from trunk to 6.0-stable (#42244).

Revision 23508 - 2025-02-12 04:49 - Go MAEDA

Merged r23503 from trunk to 5.1-stable (#42244).

History

#1 - 2025-02-09 08:12 - Katsuya HIDAKA

For reference, here is a reproduction of the StaleElementReferenceError failure along with a detailed investigation of the root cause.

The reproduction code, including debug code, is available here:

<https://github.com/hidakatsuya/redmine/commit/730ae259c1ca3df50b0d143c640deeb4a3b8b152>

The test results before and after applying the fix patch for the above reproduction code are as follows:

Before patch application

```
Capybara starting Puma...
...
** 2025-02-09 04:05:11 +0000 page.find('#issue_project_id').select('OnlineStore'): begin
** 2025-02-09 04:05:12 +0000 IssuesController#bulk_edit by selecting OutlineStore project: begin
** 2025-02-09 04:05:12 +0000 page.find('#issue_project_id').select('OnlineStore'): end
** 2025-02-09 04:05:12 +0000 IssuesController#bulk_edit by selecting OutlineStore project: end
[Screenshot Image]: /redmine/tmp/screenshots/failures_test_bulk_copy.png
E

Error:
IssuesSystemTest#test_bulk_copy:
Selenium::WebDriver::Error::StaleElementReferenceError: stale element reference: stale element not found in the current frame
  (Session info: chrome=131.0.6778.204); For documentation on this error, please visit: [https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception] (https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)
    test/system/issues_test.rb:512:in `block in test_bulk_copy'
    test/system/issues_test.rb:511:in `test_bulk_copy'
```

After patch application

```
Capybara starting Puma...
...
** 2025-02-09 04:06:53 +0000 page.find('#issue_project_id').select('OnlineStore'): begin
** 2025-02-09 04:06:53 +0000 IssuesController#bulk_edit by selecting OutlineStore project: begin
** 2025-02-09 04:06:53 +0000 IssuesController#bulk_edit by selecting OutlineStore project: end
** 2025-02-09 04:06:53 +0000 page.find('#issue_project_id').select('OnlineStore'): end
.
```

You can see that after applying the patch, the subsequent tests are executed after waiting for the completion of IssuesController#bulk_edit (project change).

#2 - 2025-02-09 08:36 - Go MAEDA

- Target version set to 5.1.7

Setting the target version to 5.1.7.

#3 - 2025-02-11 03:58 - Go MAEDA

- Status changed from New to Resolved

- Assignee set to Go MAEDA

Committed the patch in [r23503](#). Thank you for your contribution.

#4 - 2025-02-12 04:50 - Go MAEDA
- Status changed from Resolved to Closed

Merged the fix into the stable branches in [r23507](#) and [r23508](#).

Files

0001-Fix-random-failures-in-Issues	Test-test_bulk_copy-due-to-StaleElementReference	2025-02-09	1.15 KB	Katsuya HIDAHA
------------------------------------	--	------------	---------	----------------