

Redmine - Defect #31831

Back url parse in validation

2019-07-31 12:04 - Tibinko H

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Marius BĂLTEANU	<b>% Done:</b>	0%
<b>Category:</b>	Code cleanup/refactoring	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	6.0.0	<b>Affected version:</b>	4.0.4
<b>Resolution:</b>	Fixed		
<b>Description</b> Hello,  for example on issues screen, when you apply filters, it generates an url containing:  <code>utf8=</code>  Because of this <code>bulk_edit</code> (for instance) is unable to redirect back to this url. The reason is a function in <code>application_controller.rb</code> - <code>validate_back_url</code>  <code>URI.parse(back_url)</code> is unable to parse the special character mentioned above.  The quicke workaround would be  <code>URI.parse(URI.encode(back_url))</code>  but i am not sure that is sufficient.			
<b>Related issues:</b> Related to Redmine - Defect #31552: View switches from gantt to list after ed... <b>Closed</b> Related to Redmine - Feature #40190: Stop appending the utf8 checkmark parame... <b>Closed</b> Related to Redmine - Defect #41930: Redirection after signing in fails when t... <b>Closed</b>			

Associated revisions

<b>Revision 22710 - 2024-02-14 00:17 - Marius BĂLTEANU</b>
Replaces <code>URI.parse</code> with <code>Addressable::URI.parse(url)</code> to enhance robustness of <code>validate_back_url</code> (#31831).
Patch by Go MAEDA (@maeda).

History

<b>#1 - 2019-08-01 08:09 - Mizuki ISHIKAWA</b>
It looks good. I have also suggested the same fix ( <a href="#">#31552#note-2</a> ).
<b>#2 - 2019-08-01 10:20 - Tibinko H</b>
Oh, ok. Did not see that, I am going to put this issuse to resolved then.
<b>#3 - 2019-08-01 10:20 - Tibinko H</b>
- Status changed from New to Resolved
<b>#4 - 2019-08-01 10:33 - Marius BĂLTEANU</b>
- Status changed from Resolved to New
Tibinko H wrote:
Oh, ok. Did not see that, I am going to put this issuse to resolved then.

It was committed another solution in that ticket.

#### #5 - 2019-08-01 10:40 - Tibinko H

Marius BALTEANU wrote:

Tibinko H wrote:

Oh, ok. Did not see that, I am going to put this issue to resolved then.

It was committed another solution in that ticket.

Is it not exactly the same as I wrote above?

#### #6 - 2019-08-01 10:41 - Mizuki ISHIKAWA

Tibinko H wrote:

Oh, ok. Did not see that, I am going to put this issue to resolved then.

I think this problem has not been solved yet.

Sorry, my comment([#31831#note-1](#)) may have misled you.

In [#31552](#) issue, [#31552#note-3](#) changes were finally committed, not [#31552#note-2](#) changes. [#31552#note-3](#) changes were a partial fix and does not solve the bulk\_edit problem.

```
URI.parse(URI.encode(back_url))
```

I thought that your suggestion for solving the problem that occurs with bulk\_edit is good.

#### #7 - 2019-08-01 10:49 - Go MAEDA

- Target version set to Candidate for next minor release

Tibinko H, thank you for reporting this issue.

Here is a diff of your workaround.

```
diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index 06e2d702c..afbb30f3e 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -440,7 +440,7 @@ class ApplicationController < ActionController::Base
   end

   begin
-    uri = URI.parse(back_url)
+    uri = URI.parse(URI.encode(back_url))
   rescue URI::InvalidURIError
     return false
   end
```

#### #8 - 2019-08-01 10:51 - Go MAEDA

- Related to Defect #31552: View switches from gantt to list after editing an issue added

#### #9 - 2024-02-04 05:47 - Go MAEDA

You can fix this problem by preventing Rails from appending a "utf8" parameter to form URLs. This can be achieved by setting `config.action_view.default_enforce_utf8` to false.

<https://guides.rubyonrails.org/v7.1/configuring.html#config-action-view-default-enforce-utf8>

We can safely remove the "utf8=" parameter. This is because this is a [workaround](#) for Internet Explorer <=8 and Microsoft and Redmine no longer support the browser.

```
diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index 9bd6b831a..ad16b0e77 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -475,11 +475,6 @@ class ApplicationController < ActionController::Base
```

```

url = params[:back_url]
if url.nil? && referer = request.env['HTTP_REFERER']
  url = CGI.unescape(referer.to_s)
-   # URLs that contains the utf8=[checkmark] parameter added by Rails are
-   # parsed as invalid by URI.parse so the redirect to the back URL would
-   # not be accepted (ApplicationController#validate_back_url would return
-   # false)
-   url.gsub!(/(\?|&)utf8=\u2713&?/, '\1')
end
url
end
diff --git a/config/application.rb b/config/application.rb
index 069796185..1beeb2db2 100644
--- a/config/application.rb
+++ b/config/application.rb
@@ -45,6 +45,9 @@ module RedmineApp

```

```

config.action_mailer.delivery_job = "ActionMailer::MailDeliveryJob"

```

```

+   # Stop appending "utf8=" to form URLs
+   config.action_view.default_enforce_utf8 = false
+
+   # Set Time.zone default to the specified zone and make Active Record auto-convert to this zone.
+   # Run "rake -D time" for a list of tasks for finding time zone names. Default is UTC.
+   # config.time_zone = 'Central Time (US & Canada)'

```

#### #10 - 2024-02-05 03:09 - Go MAEDA

- Related to Feature #40190: Stop appending the utf8 checkmark parameter to form URLs added

#### #11 - 2024-02-13 10:16 - Go MAEDA

- File 31831.patch added

I have opened [#40190](#) and posted the patch pasted in [#note-9](#).

Apart from that patch, I suggest replacing `URI.parse` with `Addressable::URI.parse(url)` to address the reported issue. This change is useful for handling URLs containing non-ASCII characters, as demonstrated below.

```

irb(main):001> url = 'http://www.example.com/?utf8= '
=> "http://www.example.com/?utf8= "
irb(main):002> URI.parse(url)
/Users/maeda/.rbenv/versions/3.1.4/lib/ruby/3.1.0/uri/rfc3986_parser.rb:20:in `split': URI must be ascii only
"http://www.example.com/?utf8=\u2713" (URI::InvalidURIError)
irb(main):003> Addressable::URI.parse(url)
=> #<Addressable::URI:0x9b14 URI:http://www.example.com/?utf8= >

```

The replacement not only fixes the immediate issue but also enhances the robustness of `validate_back_url`. It remains beneficial even after the patch in [#40190](#) is merged.

#### #12 - 2024-02-13 11:42 - Marius BĂLTEANU

- Assignee set to Marius BĂLTEANU

#### #13 - 2024-02-14 00:18 - Marius BĂLTEANU

- Category set to Code cleanup/refactoring  
- Status changed from New to Resolved  
- Resolution set to Fixed

Committed the patch after I've committed the one from [#40190](#). [Go MAEDA](#), are you thinking to merge this to stable branches without the changes from [#40190](#)?

#### #14 - 2024-02-14 02:23 - Go MAEDA

- Target version changed from Candidate for next minor release to 6.0.0

Marius BĂLTEANU wrote in [#note-13](#):

[Go MAEDA](#), are you thinking to merge this to stable branches without the changes from [#40190](#)?

I think we don't need to merge this change to stable branches because the issue is very minor.

**#15 - 2024-02-14 08:59 - Marius BĂLTEANU**

- Status changed from Resolved to Closed

**#16 - 2025-01-27 03:39 - Go MAEDA**

- Related to Defect #41930: Redirection after signing in fails when the back\_url includes a port number added

**Files**

31831.patch	1.2 KB	2024-02-13	Go MAEDA
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