Redmine - Defect #31831

Back url parse in validation

2019-07-31 12:04 - Tibinko H

Status:	Closed	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	Marius BĂLTEANU	**% Done:**	0%
Category:	Code cleanup/refactoring	**Estimated time:**	0.00 hour
Target version:	6.0.0		
Resolution:	Fixed	**Affected version:**	4.0.4

Description

Hello,

for example on issues screen, when you apply filters, it generates an url containing:

`utf8=`

Because of this bulk_edit (for instance) is unable to redirect back to this url.
The reason is a function in application_controller.rb - validate_back_url

`URI.parse(back_url) is unable to parse the special character mentioned above.`

The quicke workaround would be

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

but i am not sure that is sufficient.

Related issues:

Related to Redmine - Defect #31552: View switches from gantt to list after ed...	**Closed**
Related to Redmine - Feature #40190: Stop appending the utf8 checkmark parame...	**Closed**

Associated revisions

Revision 22710 - 2024-02-14 00:17 - Marius BĂLTEANU

Replaces URI.parse with Addressable::URI.parse(url) to enhance robustness of validate_back_url (#31831).

Patch by Go MAEDA (@maeda).

History

#1 - 2019-08-01 08:09 - Mizuki ISHIKAWA

It looks good.
I have also suggested the same fix (#31552#note-2).

#2 - 2019-08-01 10:20 - Tibinko H

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

#3 - 2019-08-01 10:20 - Tibinko H

- Status changed from New to Resolved

#4 - 2019-08-01 10:33 - Marius BĂLTEANU

- Status changed from Resolved to New

Tibinko H wrote:

> Oh, ok. Did not see that, I am going to put this isssue 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 isssue 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 isssue 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 probrem.

> 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=□". 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
  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

Files

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