Redmine - Defect #36897

Wrong formatting of date in Time Entries

2022-04-05 16:04 - Denis Yurashku

Status: Confirmed Start date:

Priority: Normal Due date:

Assignee: % Done: 0%

Category: Time tracking Estimated time: 0.00 hour

Target version: Candidate for next minor release

Resolution: Affected version:

Description

Date is formatted wrong at "<PROJECT> - Time entries" ("7:60" instead of "8:00", for example). See screenshot.

This patch fixes it.

Related issues:

Related to Redmine - Feature #23996: Introduce a setting to change the displa... Closed

History

#1 - 2022-04-05 16:30 - Denis Yurashku

I've encountered this in 4.0.6, but AFAIK this bugged part of code still not fixed in 5.0.0.

#2 - 2022-04-06 15:21 - Holger Just

- Related to Feature #23996: Introduce a setting to change the display format of timespans to HH:MM added

#3 - 2022-04-06 15:23 - Holger Just

- Target version set to Candidate for next minor release

This whole thing can probably be simplified to just

```
def format_hours(hours)
  return "" if hours.blank?

if Setting.timespan_format == 'minutes'
    "%d:%02d" % (hours * 60).divmod(60)
  else
    l_number("%.2f", hours.to_f)
  end
end
```

#4 - 2022-04-06 16:39 - Denis Yurashku

Probably yes.

But as far as I understood from how hours are displayed in Time entries, they need to be `.round`-ed (not just dropping the fractional part). I.e. if you've spent 7:59:30 (7.991666666666667 hrs), for human it's 8:00 (we don't count seconds in Time entries). :)
Patch gives "8:00" too.

I think like this.

#5 - 2022-04-06 17:35 - Holger Just

Hmmm, with my version, trailing "seconds" indeed would just be cut off instead of being rounded. Thus, semantically 7:59:01 and 7:59:59 would both be shown as "7:59" which is different from the current behavior.

If we round the minutes, we would again have to deal with the case of 7.99 hours being rounded up to "7:60" however.

Maybe this version could work then:

```
h, m = (hours * 60).divmod(60).map!(&:round)
if m == 60
   h += 1
   m = 0
```

2024-05-17 1/4

```
end
"%d:%02d" % [h, m]
```

The if block could also be shortened to the equivalent one-liner:

```
h, m = h+1, 0 \text{ if } m == 60
```

In any case, we can be sure that after the first line, m is an Integer between 0 and 60 (inclusive). If it was rounded up to 60, we set to to 0 and increase the hour by one in the if block.

This should then be equivalent to the proposed version in the original patch, but with a little less math involved and a little bit more straight-forward.

At Planio, we run this code for some time now which is a mixture of both approaches:

```
h = hours.floor
m = ((hours - h) * 60).round
if m == 60
   h += 1
   m = 0
end
"%d:%02d" % [h, m]
```

Here, the first two lines (which are the same as in Redmine core) return the exact same result as h, m = (hours * 60).divmod(60).map!(&:round).

#6 - 2022-04-20 14:42 - Denis Yurashku

Holger Just wrote:

At Planio, we run this code for some time now which is a mixture of both approaches:

```
h = hours.floor
m = ((hours - h) * 60).round
if m == 60
   h += 1
   m = 0
end
"%d:%02d" % [h, m]
```

Here, the first two lines (which are the same as in Redmine core) return the exact same result as h, m = (hours * 60).divmod(60).map!(&:round).

Yes, I think we can go this way. :)

#7 - 2022-04-28 10:14 - Denis Yurashku

- File Format_hours_edit.diff added

So, the adjusted patch.

#8 - 2022-06-14 11:33 - Denis Yurashku

Any movements on this?

Is it "Confirmed"?

#9 - 2022-07-17 07:44 - Go MAEDA

Denis Yurashku wrote:

Any movements on this?

Is it "Confirmed"?

I still cannot reproduce the issue. Could you tell me detailed steps to output "7:60"? Without this, I cannot write test code.

#10 - 2022-07-18 15:57 - Holger Just

You can reproduce the issue by creating a time entry with decimal logged hours slightly below 8 hours, e.g. 7.99166666666666 hours. Here, the fractional minutes will be rounded up to 60 minutes because 0.9916666666666666666666666666666. This value is always allowed as the time entry form also allows entering float values (which are then parsed as floats in lib/redmine/core_ext/string/conversions.rb. External time tracking apps might round durations by the second and then send those exact values which are accepted by Redmine.

2024-05-17 2/4

the existing code.

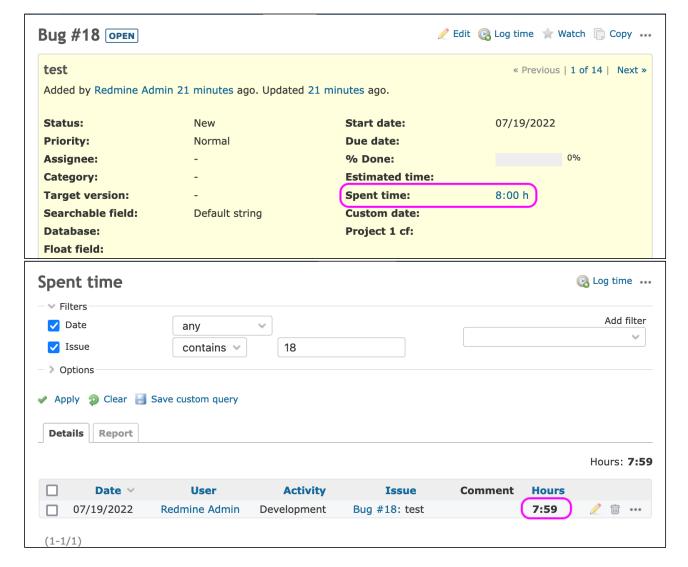
Depending on the database and the rounding of the floats involved, this situation may also be created with other times as shown in the screenshot as we always round the raw values to two decimal places before summing them in TimeEntryQuery#total_for_hours which may introduce additional error margins.

#11 - 2022-07-19 08:42 - Go MAEDA

- File issue-page.png added
- File spent-time-page.png added
- Tracker changed from Patch to Defect
- Status changed from New to Confirmed

Holger Just wrote:

You can reproduce the issue by creating a time entry with decimal logged hours slightly below 8 hours, e.g. 7.99166666666667 hours. Here, the fractional minutes will be rounded up to 60 minutes because 0.99166666666667 * 60 = 59.5000000000000002.



Files

Format_hours.diff	450 Bytes	2022-04-05	Denis Yurashku
Снимок экрана от 2022-04-05 16-59-25_0.png	71.6 KB	2022-04-05	Denis Yurashku

2024-05-17 3/4

Format_hours_edit.diff	443 Bytes	2022-04-28	Denis Yurashku
issue-page.png	98.8 KB	2022-07-19	Go MAEDA
spent-time-page.png	88.4 KB	2022-07-19	Go MAEDA

2024-05-17 4/4