Foreman - Feature #29578

Add functionality to sort reports in ascending or descending order generated using Reporting Engine

04/20/2020 07:25 PM - Marek Hulán

Status:	Closed			
Priority:	Normal			
Assignee:	Marek Hulán			
Category:	Reporting			
Target version:				
Difficulty:		**Fixed in Releases:**	2.1.0	
Triaged:	No	**Found in Releases:**		
Bugzilla link:	1823991	**Red Hat JIRA:**		
Pull request:	https://github.com/theforeman/foreman/pull/7620			

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1823991

1. Proposed title of this feature request
- [RFE] Add functionality to sort reports in ascending or descending order generated using Reporting Engine in Red Hat Satellite 6

2. Who is the customer behind the request?

...snip...

3. What are the nature and description of the request?

```
- Reporting Engine was introduced from Red Hat Satellite 6.5
```

```
- https://www.redhat.com/en/blog/getting-started-satellite-65-reporting-engine
```

```
-  While generating reports in Red Hat Satellite 6 using Reporting Engine
```

```
- (Satellite Web UI --> Monitor --> Report Template)
```

```
- There is no option to generate a report in ascending or descending order
```

```
- And the report will be generated according to registration date and time.
```

4. Why does the customer need this? (List the business requirements here)

```
- As the report is getting generated according to registration Date and Time
```

```
- This is a general request to have option to generate report in ascending or descending order
```

5. How would the customer like to achieve this? (List the functional requirements here)

6. For each functional requirement listed, specify how Red Hat and the customer can test to confirm the requirement is successfully implemented.

```
- We can test it by generating a report using Reporting Engine (Satellite Web UI --> Monitor --> R
eport Template)
```

7. Is there already an existing RFE upstream or in Red Hat Bugzilla?:

```
- No
```

8. Does the customer have any specific timeline dependencies and which release would they like to target (i.e. RHEL5, RHEL6)?

```
- No. There is no timeline but it is a basic requirement.
```

9. Is the sales team involved in this request and do they have any additional input?

```
- No
```

10. List any affected packages or components.

11. Would the customer be able to assist in testing this functionality if implemented?

```
- We can test it by generating report using Reporting Engine (Satellite Web UI --> Monitor --> Rep
ort Template)
```

Associated revisions

Revision c0c1e744 - 05/26/2020 10:26 AM - Marek Hulán

Fixes #29578 - add sorting feature to reports

Reports usually generate a tabular data using the report_render macro. There is no way to sort such output. This patch adds a new parameter to report_render macro allowing to specify one or more columns for sorting.

<%= report_render order: 'Name' ->
<= report_render order: ['Name', 'Age'] -%>

Also it may be useful to reverse the order of the report. For this purpose a second parameter was added

<%= report_render order: ['Name'], :reverse_order: true -%>

Note that both can be used independently.

For unknown column, rendering error is presented calling out the values that were not recognized. We support all headers registered using the report_headers macro as well as names used when calling report_row macro, as illustrated in the following example

<%- report_headers 'Name' ➤
➤ report_row Name: 'Ares', Age: 123 ->
<= report_render order: 'Age' %>

The performance impact was checked. Ordering roughly doubles the raw rendering time, meaning the time the report_render method takes. The order reversing is nearly instant.

On report with 10_000 rows, it added 0.05s which in such big reports is marginal thing. Usually the report spend minutes on parsing ActiveRecord data.

History

#1 - 04/29/2020 07:42 PM - The Foreman Bot

- Status changed from New to Ready For Testing

- Assignee set to Marek Hulán

- Pull request https://github.com/theforeman/foreman/pull/7620 added

#2 - 05/26/2020 10:27 AM - The Foreman Bot

- Fixed in Releases 2.2.0 added

#3 - 05/26/2020 11:01 AM - Marek Hulán

- Status changed from Ready For Testing to Closed

Applied in changeset c0c1e7444a18d5df6a2cc9a650fd47db2174f399.

#4 - 05/27/2020 11:46 AM - Tomer Brisker

- Fixed in Releases 2.1.0 added

- Fixed in Releases deleted (2.2.0)

#5 - 05/27/2020 11:47 AM - Tomer Brisker

- Subject changed from Add functionality to sort reports in ascending or descending order generated using Reporting Engine in Red Hat Satellite 6 to Add functionality to sort reports in ascending or descending order generated using Reporting Engine

#6 - 05/27/2020 11:47 AM - Tomer Brisker

- Category changed from Statistics to Reporting

#7 - 09/10/2020 04:59 AM - The Foreman Bot

- Pull request https://github.com/theforeman/foreman/pull/7975 added