Add feature to recalculate score in exercises

28/06/2016 00:01 - Yannick Warnier

| Status: | New          | Start date: | 27/06/2016 |
| Priority: | Normal       | Due date:   |             |
| Assignee: |              | % Done:     | 50%         |
| Category: | Exercises    | Estimated time: | 0.00 hour |
| Target version: | 2.0          | Spent time: | 0.00 hour  |
| Complexity: | Normal       | SCRUM pts - complexity: | ?        |

Description

If a question had one error and the teacher sees it and wants to fix it, there should be a button to "recalculate" the score of the student based on his (unchanged) answers and the (changed) question.

The button to recalculate should appear on this page: main/exercice/exercise_report.php: one icon in the action bar, to recalculate all scores, and one icon next to each student separately.

The icon main/img/icons/22/reload.png can be used for that.

The feature should just reprocess the results. Look for "exe_result" of the track_e_exercises table. Possibly calls to exercise.class.php::save_stat_track_exercise_info() but maybe it's not the only place where it is modified.

Associated revisions

Revision 238763ae - 09/07/2016 04:49 - Angel Fernando Quiroz Campos
Allow recalculate the students score - refs #8307

History

#1 - 28/06/2016 00:01 - Yannick Warnier
An example from a filled database, where exe_result varies from one user to another:

MariaDB [chamilocourses]> select exe_user_id, exe_exo_id, exe_date, status, exe_duration, exe_weighting, exe_result from track_e_exercises;
+------------+------------+---------------------+------------+--------------+---------------+-------------------------+
<table>
<thead>
<tr>
<th>exe_user_id</th>
<th>exe_exo_id</th>
<th>exe_date</th>
<th>status</th>
<th>exe_duration</th>
<th>exe_weighting</th>
<th>exe_result</th>
</tr>
</thead>
<tbody>
<tr>
<td>587</td>
<td>33</td>
<td>2016-06-24 03:30:44</td>
<td></td>
<td>1779</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>634</td>
<td>33</td>
<td>2016-06-27 21:24:46</td>
<td></td>
<td>1173</td>
<td>50</td>
<td>48.5</td>
</tr>
<tr>
<td>4.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>635</td>
<td>33</td>
<td>2016-06-27 21:20:54</td>
<td></td>
<td>965</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
+------------+------------+---------------------+------------+--------------+---------------+-------------------------+
235 rows in set (0.00 sec)

#2 - 01/07/2016 19:19 - Yannick Warnier
- Assignee changed from Angel Quiroz to Yannick Warnier

#3 - 01/07/2016 20:46 - Yannick Warnier
- Assignee changed from Yannick Warnier to Angel Quiroz
- % Done changed from 0 to 10

This code from exercise_report.php recalculates the total score, but does not recalculate each answer's score (line 209):

```sql
$qry = 'SELECT DISTINCT question_id, marks
 FROM '.$TBL_TRACK_ATTEMPT.' WHERE exe_id = '.$id.''
 GROUP BY question_id';
```
Just before that, there is code to update answers on the basis of a POST element. The ID here is to recalculate all answers score on the basis of the answers that are already in the database, considering that the **questions** score and correct answers might have been changed.

There's interesting code in `main/inc/ajax/exercise.ajax.php::save_exercise_by_now` but it also saves the session duration, and that it not an option in our case, so it would probably be a good idea to just copy this code in a new function and clean it up.

I've added the basic changes at the places where this code needs to be inserted here: [https://github.com/chamilo/chamilo-lms/pull/1251](https://github.com/chamilo/chamilo-lms/pull/1251)

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#4 - 01/07/2016 20:48 - Yannick Warnier

The function should be called `ExerciseLib::recalculateAttemptScore($attemptId)` and only recalculate the total score, but also make sure an event is stored for that (who did it, when, what the old score was) through the Events library (like `update_event_exercice()`).

#5 - 12/07/2016 01:25 - Angel Quiroz

- Status changed from Assigned to Needs testing
- Assignee deleted (Angel Quiroz)
- % Done changed from 10 to 50

For now, the main/exercise/recalculate.php script works with the question types Multiple choice, Multiple answers, Exact selection, Unique answer with unknown, Multiple answer true/false/unknown, Combination true/false/don't-know and Global multiple answer

There are bugs with the other question types, because these questions need to be "processed"

[https://github.com/AngelFQC/chamilo-lms/tree/8307](https://github.com/AngelFQC/chamilo-lms/tree/8307)

#6 - 13/07/2016 06:48 - Yannick Warnier

- Status changed from Needs testing to New
- Target version changed from 1.11.0 to 2.0

This is good enough for me (for 1.11.x). I'm transferring this task to 2.0, to be completed then (I'm sure we'll find a way to do it).

Good job!