Chamilo LMS - Feature #8307

Add feature to recalculate score in exercises

28/06/2016 00:01 - Yannick Warnier

Status: New
Priority: Normal
Assignee:
Category: Exercises
Target version: 2.0
Complexity: Normal

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;

| 587 | 33 | 2016-06-24 03:30:44 | | 1779 | 50 |
| 36 | 634 | 33 | 2016-06-27 21:24:46 | | 1173 | 50 | 4.5 |
| 40 | 635 | 33 | 2016-06-27 21:20:54 | | 965 | 50 |

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):

```php
$qry = 'SELECT DISTINCT question_id, marks FROM '.$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

#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

#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!