

This is an analysis of the quiz tool. I'm maybe a little bit biased since I've already worked with Curios which has quite some advanced features that might be too advanced for a simple test tool.

Quiz shortcomings

Problems

- The quiz is hierarchical but this is not so obvious: one quiz(exercise) consists of several questions. A question has a question title, possible answers, a hint (missing) and feedback.
- Consider using the same layout as in the forum. This will make the distinction between the different sections of a quiz more obvious (and also the editing).

Tests		
Quiz Title	already executed?	Score
1. Sample test	✓	7 / 10
2. Sample test		
3. Sample test		

Illustration 1: a list with quizzes of the course

Sample Test
 This is the comment on the sample test. The properties can be explained here also (no self test), hints will be penalised, ...

1. Socratic irony is...
 (more than one answer can be true)

☐ Ridiculise one's interlocutor in order to have him concede he is wrong.
☐ Admit one's own errors to invite one's interlocutor to do the same.
☐ Compell one's interlocutor, by a series of questions and sub-questions, to admit he doesn't know what he claims to know.
☐ Use the Principle of Non Contradiction to force one's interlocutor into a dead end.

2. Question
 Question comment

☐ Possible answer 1
☐ Possible answer 2
☐ Possible answer 3
☐ Possible answer 4

Illustration 2: One quiz.

- a quiz has the title displayed in a blue line
- the question in a gray line
- and the options in white area
- the hint and the feedback can appear in a box that has the well know icon for correct (green V), incorrect (red X) or hint (yellow-black exclamation mark) in it.

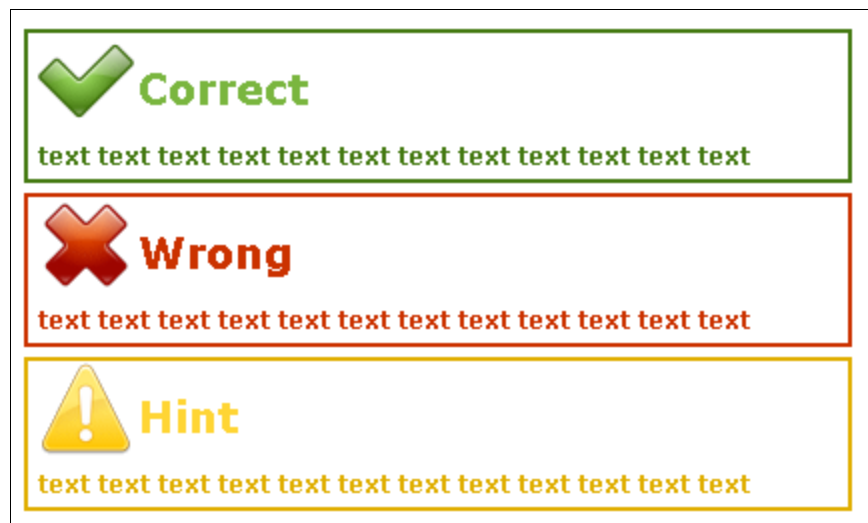


Illustration 3: correct answer, wrong answer, hint

Features that are missing

- Only the question title of a question can have an image or soundclip attached to it. It is not possible to have an image or soundclip as an answer. I think it would be better that the answer could be wysiwyg so that images or sound can be added. The same problem is the case for the feedback.
- Feature missing: hint. This can be very helpful in self tests. The score that can be obtained for the question after a hint has been used should be lower then when the hint is not used. I would implement this with a negative score for a hint (a penalisation score)
The hint is on the level of the question, not on the level of the possible answers.

Add a Question to the Quiz	
Question	<input type="text" value="question title"/> <div>wysiwyg editor</div>
Optional comments	<div></div>
Add a picture (.GIF, .JPG or .PNG) :	<input type="text"/> <input type="button" value="Browse..."/>
Answer Type	<input type="radio"/> Multiple choice (Unique answer) <input type="radio"/> Multiple choice (Multiple answers) <input type="radio"/> Matching <input type="radio"/> Fill in blanks <input type="radio"/> Hotspot (random order answer) <input type="radio"/> Hotspot (fixed order answer)
Hint	<div>wysiwyg editor</div>
Hint penalisation	<input type="text"/> points

Illustration 4: Hint and hint penalization

- Feature missing: random order of the possible answers. This is a setting for the question.
- Feature missing: random order of the questions inside a quiz. This is a setting for the quiz.
- Feature missing: timeframe of a quiz. This can easily be added if the quiz is added to the item_property table which already has these tables.
- Feature missing: timed execution time. It should be possible that a user can only have X minutes to

complete the quiz. This is a setting for the quiz. We could also foresee this for every individual question but I doubt if this is useful (and this certainly adds extra complexity because the sum of all the time of the individual questions must be equal to the time of the quiz).

- Feature missing: setting that says if the quiz can be done only once (real exam or survey) or several times (self tests). This was one of the features that was asked several times in Curios. Initially it was only possible to take a quiz only once but we had to change this since a lot of users asked this.
- Options for a quiz: show feedback after the complete quiz or after each question.
 - Feedback after complete quiz: Q1 -> Q2 -> Q3 -> feedback of Q1, Q2, Q3
 - Feedback after each question: Q1 -> Feedback Q1 -> Q2 -> Feedback Q2 -> Q3 -> ...
- What happens if a question of the question pool gets edited? Do the quizzes who use this question also get the edited question? This is a (relatively easy) content management problem. I have no opinion on what is the good solution for this.
 - Edit question in question pool does also edit the question in the quiz => the question links to the question in the question pool
 - edit question in question pool does not edit the question in the quiz => the question in the quiz is a copy of the question in the pool. Should in this case the reference to the question in the question pool be stored so that it is possible to get the most recent version?
- Status icon showing if the user already executed the test or not. If he did execute it the score could be displayed there.
- Allow the student to continue where (s)he left the quiz the last time? (=> continue quiz). This could also be indicated with a green checkbox.
- Feature missing: open answer with a limited number of characters.
- Feature missing: advance to the next question only if the previous was correct. This is only relevant in the multipage quiz.
- Feature missing: a setting that allows the user to go back to a previous question or not
- Explain the difference between multiple choice and multiple select.
- Resource linker in the questions / feedback / hint so that a link to other course material can be used. An example: a physics question could display a real life situation. The hint could then contain a link to the image of the formula that has to be used.

An alternative to this is that the wysiwyg editor has a feature that allows browsing the course material of the course. For documents this is not really a problem (and links could also be added) but the problem is that other course material cannot be used (for instance a forum discussion).