

TEST PLAN AND TEST RESULTS

Application: Moon

DATE: 10/05/2017

1. TEST CASE ADD EXERCISE

1.1 Use Case: Add exercise

This use case represents the moment when a teacher wants to add an exercise to an existing unit in an existing course.

We are going to test the main path, with some mistakes made by the user so that the test shows how the app behaves in those alternative path.

Its primary actors will be teachers, and the goal is to make an exercise using the exercise maker the application provides. The success guarantee is that the exercise will be added to the course tree, and accessible to students when visible and active.

Main success scenario:

- i. Teacher has logged in, went in the course and selects to edit the unit where he wants to add the exercise.
- ii. Teacher selects to Add an Exercise
- iii. Teacher selects the dates where it will be active, a relevance, a penalty for each question, the order of the question, and a name.
- iv. Teacher selects to add a new T/F question, and gives it a relevance and a number.
- v. Teacher writes the statement and selects a truth value for it. Saves the exercises.

Extension 1:

Teacher selects to add a Single Choice question, and gives it a relevance and a number.

Teacher writes the question, and enters a right answer and some wrong answers. Teacher selects an order for the different options. Saves the exercise.

Extension 2:

Teacher selects to add a Multiple Choice question, and gives it a relevance and a number.

Teacher writes the question, and enters some right answers and some wrong answers.

Teacher selects an order for the different options. Saves the exercise.

Extension 3:

Teacher selects an Open answer question, and gives it a relevance and a number.

Teacher writes down the question and adds different correct answers. Saves the exercise.

1.2. Test case design (including expected inputs and outputs):

Preconditions:

- i. *The Academy needs to have at least one course (subject) with at least one unit.*
- ii. *You need to be a user that has logged in as a teacher (this means: email tea.cher@edu.es, password IsALotOfWork13579) .*
- iii. *You need to have entered the course page (clicking in the course of the course list which is in the teacher main page).*
- iv. *You need to have opened the course tree in the course page*

Scenario:

1. User makes selects *unit* in the tree.
2. User clicks on edit element and contents.
3. System changes view to EditUnitView.
4. User clicks on *Save & add exe.*

5. System changes view to *AddExeView*, and creates an exercise where to put the information it will collect from the view.
6. User fills the *activity date from*, *activity date to*. The user tries to choose from 1/1/2014 to 2/2/2017. As he/she is a fool, he writes "1017" instead of "2017" and "201A" instead of "2014".
7. User selects checkbox visibility, as he wants a visible exercise, and random order, as he wants the questions to be displayed randomly.
8. User selects penalty (-5) for each question and the relevance (5) of the exercise in the Jspinners. If he enters invalid values (negative relevance, positive penalty) values are automatically fixed.
9. User presses *Save and back*
10. System detects no name has been chosen, tells the user.
11. User presses *OK*
12. System detects invalid dates have been chosen, tells the user.
13. User presses *OK*
14. User correctly fill the fields: changes 201A with 2014, 1017 with 2017, fills name field with "MyBeautifulExercise", presses *Save and back*
15. System detects no added questions , tells the user.
16. User presses *OK*
17. User presses *True/False question*
18. System opens a popup where to fill in the True/False question
19. User selects a relevance 1.9 for the question, a question number (1), then writes the question ("I am fantastically fantabulous") and selects the correct answer (True).
20. User presses *save and exit*.
21. System closes pop up, saves the question.
22. User presses *Mutiple Choice Question*.
23. System opens a pop up where to fill the question.
24. User selects relevance 1.6, number of question 2, writes the question("Who is the best?"), tries to save.
25. System detects no correct/incorrect answers to the question have been added to the question, tells the user. *We are not going to repeat this step of "forgetting to add an answer to the question" for each type, but it is the same in the four types of answers*
26. User presses *OK*
27. User fills correct answers;
 - Writes "Lucia", presses *Add*
 - Writes "Both", presses *Add*
 - Writes "Lucia", presses *Add*
 - Writes "Lucia", presses *Add*
 And an incorrect answer: Writes "Juan Riera", presses *Add*
28. User presses *save and exit*
29. System saves the question, closes the pop up
30. User presses *Single Choice Question*
31. System opens a pop up where to fill the question.
32. User selects relevance 1.6, number of question 3, writes the question("Do I want to study SOPER?"), add the correct answer in the text field ("No"), the incorrect answers (Writes "Maybe", presses *Add*, writes "Of course", presses *Add*, writes "My imagination for making exercises is null", presses *Add*). For this question, user decides to display options randomly: selects *Random order of options* checkbox. Tries to save pressing *Save and exit*.
33. System saves the question, closes the pop up
34. User presses *Open answer question*
35. System opens a pop up where to fill the question.
36. User selects relevance 1.3, number of the question 4, writes the question "Who is the Java Master?", write some correct answers (writes "Juan de Lara", presses *Add*,

writes "Juan Riera", presses *Add*, writes "Lucia Asencio", presses *Add*). User tries to save: presses *Save and exit*.

37. System saves the question, closes pop up.
38. User presses *Save and back* to save the exercise
39. The add exercise view closes, the course main page is opened.
40. User selects *curso*
41. User opens the tree to see the exercise

Some of the steps in the usecase are a bit different from the ones in the testcase, but this is caused because of the user entering invalid data to the application, such as empty fields, wrong dates, etc. that make the system react and prevent the user from saving invalid data.

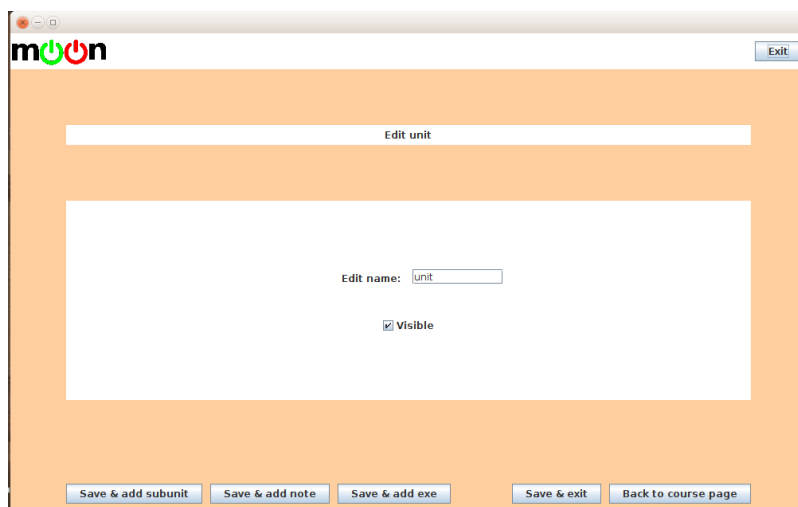
1.3. Test execution result

- Screenshot, associated with the steps enumerated in **Scenario**

Steps 1, 2: entering the course page and selecting the unit



Steps 2, 3: editing the unit by selecting add exercise



Steps 5,6,7,8,9: filling some fields of the add exercise view, trying to save

Activity dates

From: 1 January 201A

To: 2 February 1017

Add a question

True/falseQuestion

Multiple choice question

Single choice question

Open answer question

Relevance of the exercise

Penalty of the exercise

Exercise name

Exercise

Random order

Visibility

Back to main page

Save and back

Step 10, 11: invalid name

Activity dates

From: 1 January 201A

To: 2 February 1017

Add a question

True/falseQuestion

Multiple choice question

Single choice question

Open answer question

Relevance of the exercise

Penalty of the exercise

Exercise name

Exercise

Random order

Visibility

Back to main page

Save and back

Error

The exercise must have a name

Ok

Step 12, 13: invalid date

Activity dates

From: 1 January 201A

To: 2 February 1017

Add a question

True/falseQuestion

Multiple choice question

Single choice question

Open answer question

Relevance of the exercise

Penalty of the exercise

Exercise name

Exercise

Random order

Visibility

Back to main page

Save and back

Error

Invalid dates

Ok

Step 14: Refill, tries to save

moon

Exit

Add exercise

Activity dates

From: 1 January 2014

To: 2 February 2017

☒ Random order ☒ Visibility

Exercise name

MyBeautifulExercise

Relevance of the exercise

Penalty of the exercise

Add a question

True/falseQuestion

Multiple choice question

Single choice question

Open answer question

Back to main page Save and back

Steps 15, 16: no added questions

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Exit

Add exercise

Activity dates

From: 1 January 2014

To: 2 February 2017

☒ Random order ☒ Visibility

Exercise name

Relevance of the exercise

Penalty of the exercise

Add a question

True/falseQuestion

Multiple choice question

Single choice question

Open answer question

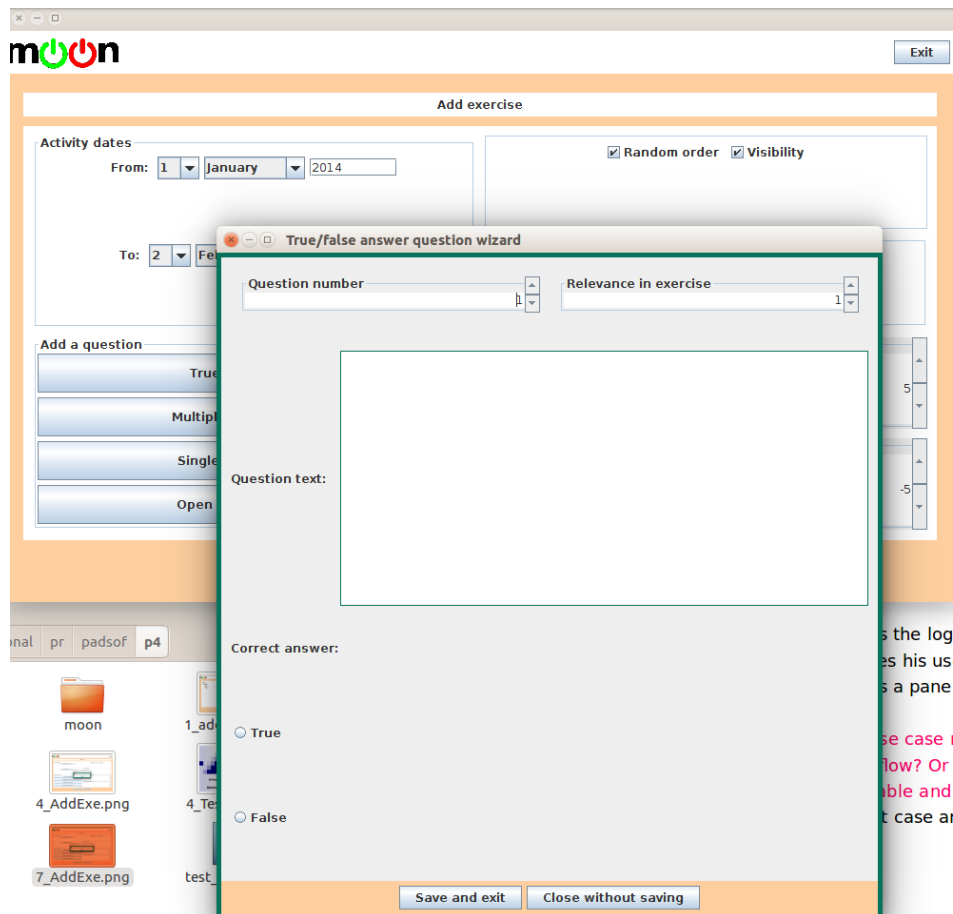
Back to main page Save and back

Error

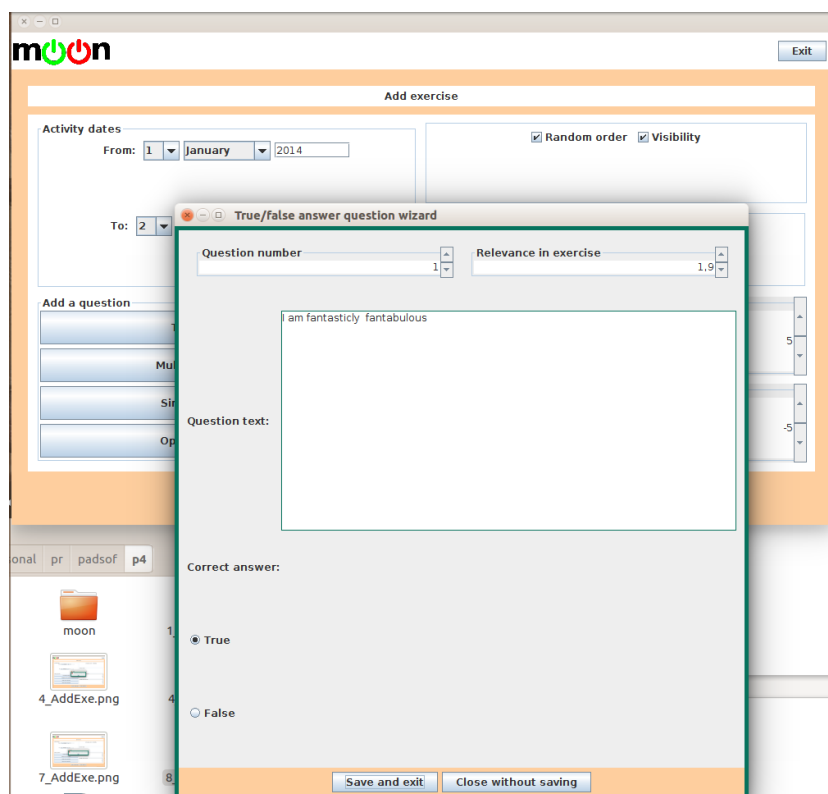
The exercise must have at least one question

Ok

Step 17, 18: add T/F question



Step 19, 20: user fills fields, saves



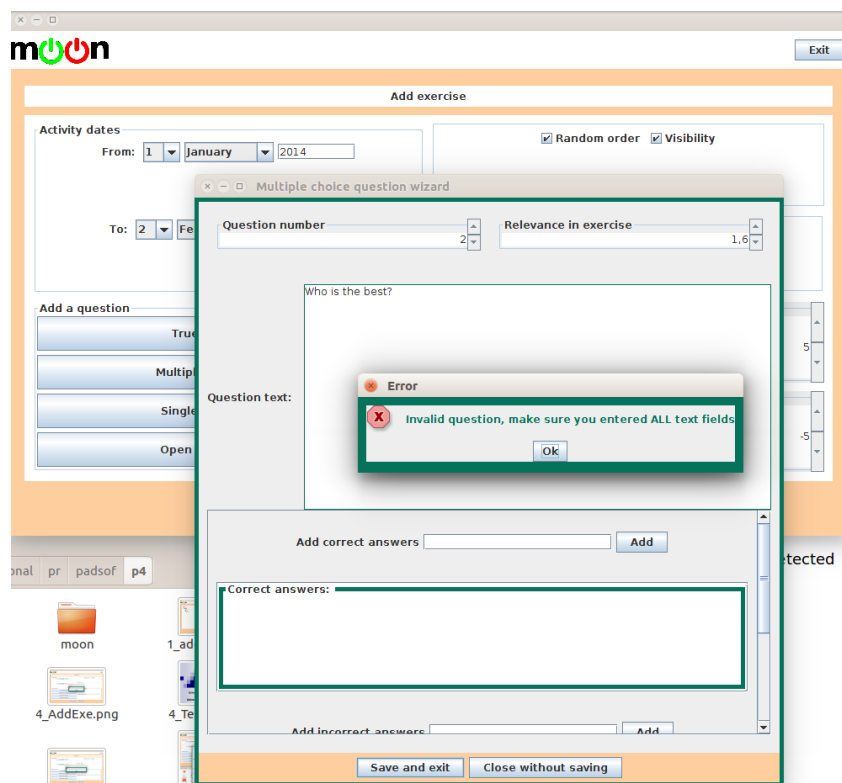
Steps 21, 22: pop up closed, presses multiple choice question.

The screenshot shows the 'Add exercise' form in the moon application. The form has a title bar with the moon logo and an 'Exit' button. The main content area is divided into several sections. On the left, there's a section for 'Activity dates' with 'From' and 'To' dropdowns. Below this is a section titled 'Add a question' with four buttons: 'True/falseQuestion', 'Multiple choice question', 'Single choice question', and 'Open answer question'. On the right, there's a section for 'Exercise name' with a text input field containing 'MyBeautifulExercise'. Below this are two sections for 'Relevance of the exercise' and 'Penalty of the exercise', each with a vertical slider. At the bottom, there are two buttons: 'Back to main page' and 'Save and back'.

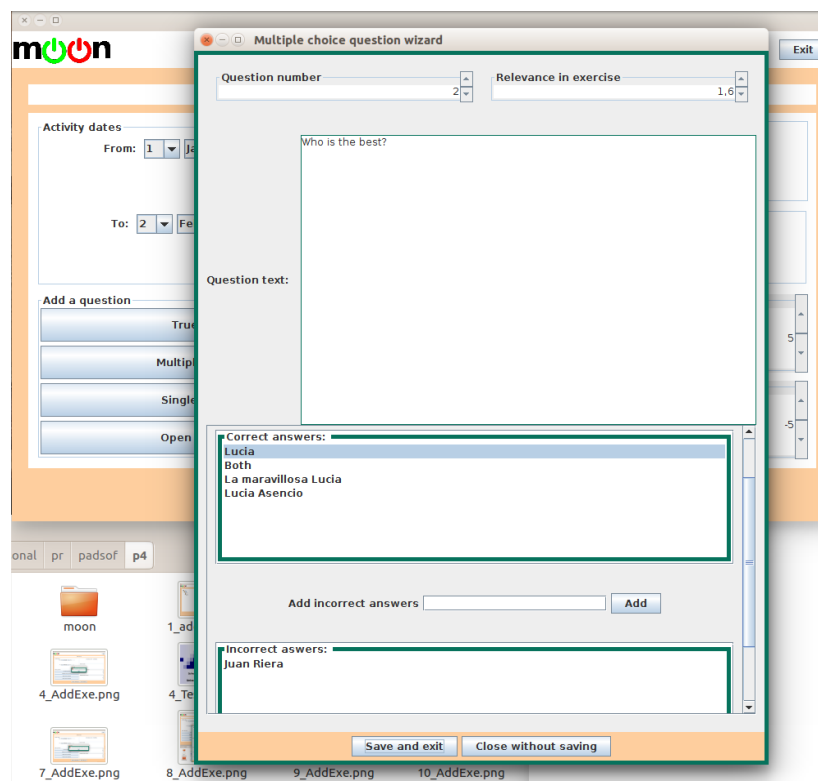
Steps 23, 24: fill some fields in pop up, tries to save

The screenshot shows the 'Multiple choice question wizard' pop-up dialog. The dialog has a title bar with the moon logo and an 'Exit' button. The main content area is divided into several sections. At the top, there's a section for 'Question number' with a text input field containing '2'. To the right of this is a section for 'Relevance in exercise' with a vertical slider set to '1.6'. Below these is a large text area for 'Question text' containing the text 'Who is the best?'. At the bottom, there's a section for 'Add correct answers' with a text input field and an 'Add' button. Below this is a section for 'Correct answers:' with a large text area. At the very bottom, there's a section for 'Add incorrect answers' with a text input field and an 'Add' button. At the bottom of the dialog, there are two buttons: 'Save and exit' and 'Close without saving'.

25, 26: no added answers detected



Steps 27, 28, 29: fills the other fields, saves



Step 30: user selects single choice questions

The screenshot shows the 'Add exercise' form in the moun application. The form is divided into several sections:

- Activity dates:** Includes 'From' and 'To' date pickers. 'From' is set to 1 January 2014, and 'To' is set to 2 February 2017.
- Exercise settings:** Includes checkboxes for 'Random order' and 'Visibility', both of which are checked.
- Exercise name:** A text field containing 'MyBeautifulExercise'.
- Relevance of the exercise:** A vertical slider set to 5.
- Penalty of the exercise:** A vertical slider set to -5.
- Add a question:** A section with four buttons: 'True/falseQuestion', 'Multiple choice question', 'Single choice question' (which is highlighted), and 'Open answer question'.
- Buttons:** At the bottom, there are 'Back to main page' and 'Save and back' buttons.

Step 31, 32, 33: Fill all the fields and save

The screenshot shows the 'Single choice question wizard' form. It is used to configure a single choice question. The form includes the following fields and sections:

- Question number:** A text field with the value '3'.
- Relevance in exercise:** A vertical slider set to 1.6.
- Question text:** A large text area containing the question 'Do I want to study SOPER?'.
- Introduce the correct answer:** A text field containing the answer 'No'.
- Add incorrect answers:** A text field with an 'Add' button next to it.
- Incorrect answers:** A list box containing three options: 'Maybe', 'Of course', and 'My imagination for making exercises is null'.
- Random order of options:** A checkbox that is checked.
- Buttons:** At the bottom, there are 'Save and exit' and 'Close without saving' buttons.

34: Selects open answer questions

The screenshot shows the 'Add exercise' window in the moun application. The window has a title bar with the moun logo and an 'Exit' button. The main content area is divided into several sections:

- Activity dates:** Includes 'From' and 'To' date pickers. 'From' is set to '1 January 2014' and 'To' is set to '2 February 2017'.
- Exercise name:** A text field containing 'MyBeautifulExercise'.
- Relevance of the exercise:** A vertical slider set to '5'.
- Penalty of the exercise:** A vertical slider set to '-5'.
- Add a question:** A section with four buttons: 'True/falseQuestion', 'Multiple choice question', 'Single choice question', and 'Open answer question'.
- Random order and Visibility:** Two checkboxes, both of which are checked.

At the bottom of the window, there are two buttons: 'Back to main page' and 'Save and back'.

35, 36, 37: fill fields and save

The screenshot shows the 'Open answer question wizard' window in the moun application. The window has a title bar with the text 'Open answer question wizard'. The main content area is divided into several sections:

- Question number:** A text field containing '4'.
- Relevance in exercise:** A vertical slider set to '1,3'.
- Question text:** A large text area containing the text 'Who is the Java Master?'.
- Add correct answers:** A text field and an 'Add' button.
- Correct answers:** A list box containing the text 'Juan de Lara', 'Juan Riera', and 'Lucia Asencio'.

At the bottom of the window, there are two buttons: 'Save and exit' and 'Close without saving'.

Step 38. saves exercise

The screenshot shows the 'Add exercise' form in the moun application. The form is titled 'Add exercise' and has an 'Exit' button in the top right corner. It contains several sections: 'Activity dates' with 'From' and 'To' date pickers (set to 1 January 2014 and 2 February 2017); 'Exercise name' with a text input field containing 'MyBeautifulExercise'; 'Add a question' with four buttons: 'True/falseQuestion', 'Multiple choice question', 'Single choice question', and 'Open answer question'; 'Relevance of the exercise' with a slider set to 5; and 'Penalty of the exercise' with a slider set to -5. There are also checkboxes for 'Random order' and 'Visibility'. At the bottom, there are 'Back to main page' and 'Save and back' buttons.

Activity dates

From: 1 January 2014

To: 2 February 2017

Exercise name

MyBeautifulExercise

Relevance of the exercise

Penalty of the exercise

Back to main page Save and back

Step 39, 40: main page, selects curso

The screenshot shows the main page of the moun application. It features a search bar labeled 'Search by name:' with a dropdown menu showing a list of names: Pedro Navarro, Carlos Redondo, Javier Carrera, L A, David Prieto, and Jorge Alcazar. There is an 'Add course' button in the top right corner. A calendar for May 2017 is displayed on the right side of the page. The calendar shows the days of the week (S, M, T, W, T, F, S) and the dates (1 through 31). The date 10 is highlighted in orange.

Search by name:

curso

Search by name:

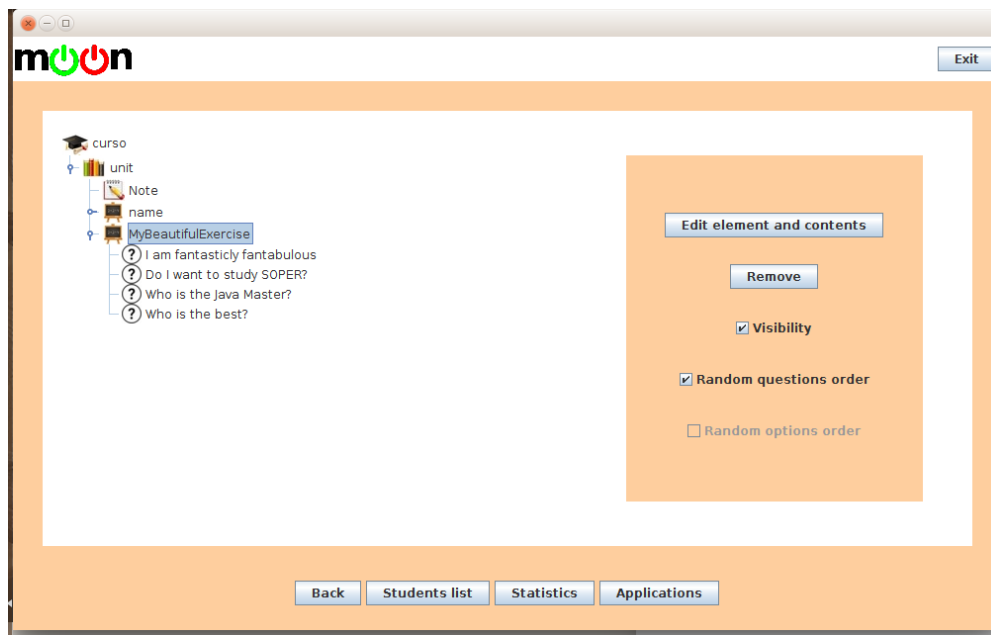
Pedro Navarro
Carlos Redondo
Javier Carrera
L A
David Prieto
Jorge Alcazar

Add course

May 2017

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Step 41: opens tree and checks exercise was correctly added.



The results in the test case are exactly the same as the ones in the result of the test, as the screenshots show.