Testing Strategies

Testing strategies for LearnEasy and TeachEasy

Document Control

Editor	Date	Update
Sam Raeburn	**15/05/2015**	**Created**

Table of Contents

Testing Strategies

1.0 Testing Strategies

This document outlines all of the strategies I personally would use to test the different units of both LearnEasy and TeachEasy, ultimately it is up to you what method of testing you choose to use (automatic or manual) but I would suggest using manual unless otherwise stated.

Document all tests which you complete in a test report (can be found on the google drive) and return this report to me. Any bugs you find should be listed as issues on the GitHub. This document isn't exhaustive of every test you should be completing; it outlines the very basics which I expect you to check for. Please feel free (it may be necessary) to add more tests of your choice.

1.1 LearnEasy Progress Tracking

It should be possible for LearnEasy to calculate the marks obtained on each page, and thus in the entire lesson.

Test for the following things:

- A warning is displayed if user tries to change page (next or previous) without answering every question.
- This warning can be permanently hidden.
- The number of marks awarded for a question is the same as the number of marks defined in the XML for that question.
- The number of marks on a page can be calculated.
- The number of marks obtained in the lesson can be calculated.

1.2 LearnEasy Home Screen

A dialog box should appear when you log into LearnEasy asking the user to select their default folder for lessons. All of the lessons in this folder should then be displayed to the user.

Test for the following things:

- The dialog box appears asking the user to select their default folder
- This dialog box can be permanently hidden (even after the program is closed it should not re-appear if the box is ticked). Note: if you need to make the box re-appear you will have to flash your computer, can be done by uncommenting a line of code in the home screen class, see me or Dan if you need help.
- Check that the home screen displays all of the lessons in that folder with the correct file path
- Check that the home screen also displays recently opened lessons.

1.3 LearnEasy Warnings

An XML file which is not in the correct format may have both errors and warnings associated with it. The program will not parse an XML file which has errors associated with it. When a bad lesson is opened by the program a dialog box should appear displaying all warnings or messages.

Test for the following things:

- The dialog box appears if there are warnings or errors with the XML
- The dialog does not appear otherwise
- The dialog correctly displays all information about warnings and errors

- If there are warnings but no errors the XML can still be parsed and a lesson can be created from it.

1.4 TeachEasy Drag and Drop & Copy and Paste

The editor should allow for the copying and pasting of objects.

Test for the following things:

- An object can be copied and pasted on a page and that all of the parameters of the pasted objects are identical to that of the copied object.
- Objects can be copied and pasted between pages.
- If an object is copied in the program, anything copied outside of the program should not interfere.

1.5 TeachEasy Templates

Templates have been included to aid in the creation of lessons.

Test for the following things:

- A new template can be added to a lesson via the edit menu
- The new template can be edited to include information you desire
- Check that all objects are correctly formatted in a template (Answer boxes, multiple choice boxes, images, videos, audio clips, text etc.)