Low-cost rapid authoring tool for Moodle quizzes

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ABSTRACT

This paper describes the motivation and development of a desktop application developed by the authors called Question Machine (QM). It rapidly creates electronic quizzes that can be imported into Moodle. It is being evaluated by students doing a user-interface design course.

Categories and Subject Descriptors
K.3.1 [Computers and Education]: Computer Uses in Education – collaborative learning, computer-assisted instruction (CAI), computer-managed instruction (CMI), distance learning.

This is just an example, please use the correct category and subject descriptors for your submission. The ACM Computing Classification Scheme: http://www.acm.org/class/1998/

General Terms
Your general terms must be any of the following 16 designated terms: Algorithms, Management, Measurement, Documentation, Performance, Design, Economics, Reliability, Experimentation, Security, Human Factors, Standardization, Languages, Theory, Legal Aspects, Verification.

Keywords
E-learning, Moodle, Learning Management Systems, Computer software

1. INTRODUCTION

Moodle is a popular open source Learning Management System. It has a rapidly growing clientele with around 76400 known registered sites in 232 countries (Moodle Statistics, 2013).

Online quizzes and tests have many benefits, such as instant marking that saves time for teachers and provides immediate feedback to students. Many agree that prompt feedback to students after an assessment is very beneficial for learning (Gibbs & Simpson, 2004), (Chickering & Ehrmann, 1996). There has been much effort in finding ways to reduce the time taken for marking assessments.

Disadvantages of online testing relate to the need for classrooms with computers, computer anxiety for some users, or issues in monitoring an assessment from a remote location (Buchanan, 2002).

2. MOTIVATION FOR DEVELOPMENT

Creating quizzes in Moodle can be tedious and time-consuming. There are low cost desktop applications that can create importable Moodle quizzes such as: Hot Potatoes 6, eXe learning and Qedoc Quiz Maker 2.7.1. However the authors found that it required time and experience to learn how to use these applications and decided it is beneficial to provide a Windows desktop application specifically for Moodle that can create quizzes quickly.

Newer versions are automatically detected when the application is run, and the user just clicks ‘OK’ to have an immediately update.
Question Machine was first available at the end of 2010 and has been downloaded approximately 741 times in the last year (1/8/2012 to 31/7/2013). Google Analytics gives a visual idea (figure 1) of the countries where it has been downloaded. Question Machine is currently being evaluated by students who have participated in a user interface design course.

4. USAGE
Question Machine was first available at the end of 2010 and has been downloaded approximately 741 times from 1/8/2012 to 31/7/2013 (Fendall, 2013). Google analytics gives a visual idea (figure 1) of the countries where it has been downloaded. QM is currently being evaluated by students who have done a user interface design course.

Figure 1: countries where users have downloaded QM from 1/8/2012 to 31/7/2013 (Google Analytics, 2013)

5. CONCLUSION
Moodle is a popular open source LMS. However creating online quizzes can be tedious and time consuming. Question Machine is a desktop application for Windows that easily and rapidly creates quizzes that can be imported into Moodle. Its ease of use and features make it unique. A user evaluation is currently underway that will give more insight into the ease of use and functionality.

REFERENCES

This poster paper appeared at the 4th annual conference of Computing and Information Technology Research and Education New Zealand (CITRENZ2013) incorporating the 26th Annual Conference of the National Advisory Committee on Computing Qualifications, Hamilton, New Zealand, October 6-9, 2013. Mike Lopez and Michael Verhaart, (Eds).