Examination & Quiz System (EQs)
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ABSTRACT
The endorsement of OBE in Malaysia’s education system is to provide quality assurance in producing graduates ready for industry practice in national and international levels. One of the important aspects of OBE is how lecturers need to design the assessments to ensure that it is in line with the learning outcome as planned. However, in practice, most of the lecturers unaware of the learning outcome while preparing the exam questions. While preparing the Table of Test Specification, lecturers tend to mismatch the learning outcome or miscalculate the percentage exam questions. As a solution, Examination & Quiz System (EQs) is suggested. EQs is a web based academic management system that helps lecturer in exams questions preparation, in such that it can generate the exam paper, the schema of the exam paper and the Table of Test Specification automatically. Other from that, EQs also allows the lecturer to see the understanding of their students after giving quizzes to them. The quiz questions can also be drag into the exam questions if they wish. EQs used object-oriented approach and as in concern on OBE matters, therefore, it is predicted to be very useful for the lecturers nowadays.

KEYWORDS: Outcome Based Education, Table of Test Specification, Questions generator, universities

1.0 INTRODUCTION
Outcome Learning Based (OBE) is a significance of quality assurance in public and private universities of Malaysia. An endorsement that the education system has demonstrated a strong, long-term commitment to quality assurance in producing graduates ready for industry practices national and international levels. As a start, highlighting the learning outcomes in each subject is very important to help student learning the required skills and content. Thus, this will be included into a proper teaching plan provided by each lecturer, along with the portion of assessment that should map to the appropriate learning outcomes. With a good teaching plan, it leads the lecturer to design the assessment in a proper way. Unfortunately, lecturer tends to ignore the learning outcome while preparing the exam questions. Exam questions preparation becomes tedious if there were changes of the formatting required by the universities. In addition, although lecturers were required to prepare the Table of Test Specification along with the exam questions, but in some cases, it appears that both did not fit each other. This may happen due to miscalculation on the questions distribution according to the LO or even the Bloom Taxonomy.

Regarding the OBE, it is important to have an academic management system that can make use LO to help lecturers and students in order to improve student’s performance in curriculum. In current research, academic management system relating to teaching plan is hardly to find. Most of the academic management system exists nowadays focused more on storing the results of assessment but ignoring the preparation of assessment. As a result, lecturers need to prepare a lot of things , thus their workload has been increased.

To solve the problem above, Examination & Quiz System (henceforth EQs) is suggested in order to help lecturers in preparing question papers. In addition, the objective of EQs are considering as written below :

- To create question paper for quizzes and examination.
- To enable lecturer to create schema answer of exam question paper.
- To enable lecturer to create JPU template that based on student performance.
- To provide flexibility in terms of retrieve information.
2.0 ARCHITECTURE DESIGN

Figure 1 below illustrates in general the process of EQs in which the lecturer only provide the quiz to test the student’s understanding and also prepare the exam question paper. The output are the students’ performance, the exam paper with cover and template as request by the university, the schema and also the table of test specification (JPU).

3.0 CONCLUSION

As regard to follow the Outcome Learning Based (OBE) requirements, lecturers were supposed to ensure that the questions exams that they have been preparing should align with the learning outcome as stated in their teaching plan. However, most of them did the questions exam preparation and ignored to relate it with the learning outcome, and some of them prepared the Table of Specification inappropriately. This system is a solution to help the lecturers in questions exams, and it also provides the schemas of the questions exams and the Table of Specification. In addition, it helped the lecturers to provide the exams question align with the taxonomy bloom and learning outcome as stated in their teaching plan. As an extra feature, the quiz that the lecturers have been tested to the students can be analysed and there is an option where the questions can be tested again and putted into the exams question. This may help the lecturer to see whether the students have understood the teachings after quiz have been done.

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REFERENCES


