Universiti Teknologi MARA

MCQ Generator Using Ontological Approach

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SUPERVISOR APPROVAL

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JANUARY 3rd, 2020

STUDENT DECLARATION

I certify that this thesis and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

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ABSTRACT

Educational systems today need an effective method to evaluate students in a competent way on their major concepts learned from their studies. The preparation of a set of questions will take time for lecturers and may not be applicable to material learned by the students if questions are raised from external sources such as text books or questions bank. Multiple Choice Question (MCQ) question generator is a system that generate the question automatically based on ontology of Operating System subject only. Students learn how to formulate and answer questions about situations, facts and ideas while trying to understand the text. This system basically can reduce the time consumption for the lecturers. Rule-based is the main technique to generate the question and answer selection for each question for this system. This MCQ question generation system is gives a lot of benefit for the lecturers. This question generation system using Waterfall Model and the system testing is conducted using functional testing and validation testing. The validation result is tested by using the ontology of Operating System. As this system is completed, it can generate and list the question related to ontology of Operating System for the lecturers.

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