Web-based Object Oriented Multimedia Assessment System

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The need to separate the content and programming logic during the question development stage in the implementation of computerized assessment is inevitably necessary in view of the technology proficiency of the end-users, cost, development time and pedagogy issues.

This paper presents the use of object oriented technology in the implementation of a Multimedia Assessment System. It will report on our applied research project currently being carried out at the polytechnic to create re-usable question templates for easy creation of multimedia question items. It will also discuss how contents and testing strategies could be separated and form re-usable resources. The session will present a complete architecture of the system, inclusive of the component of administering mastery learning tests and generating test papers of similar difficulty level and reliability indexes. The full benefits of the system and difficulties encountered during the implementation will be discussed.