Exam Questions Recommendation System

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Philosophy:- This report give insight to teacher for selecting questions from shared and centralized IMS QTI-complaint question bank using recommendation techniques.

Summary:- This report present the idea of using recommendation system for selecting question and question bank. Like in a large class or even in a small class, different student have different level of understanding. In this paper, questions are characterized by their difficulty level in the beginning by instructor after that the value or state of questions difficulties changes according to student response.

Observations:- This technique is good, when instructor want to characterize the question according to difficulty level and change its level according to students responses. Database is shared between various institutes; instructor can share resources with students or teachers.

Positive points:- Help instructor to understand student level of understanding. It also improve learning of student, as students get question according to difficulty level.

Negative points:- Extra overhead for maintaining level of questions, if maintained for each student then overhead will increased linearly.

Problem identified:- We can maintain student file, which will also contains level of difficulty for question for each students, according to that, different question can be posted to different students according to their level value.

Orientation:- This paper aim was to improve student learning and maintain centralized question bank for selecting question according to different level.

Feedback:- It is good for those scenario where level of understanding of each student differ greatly, but where students are alike, differ ratio is small then there is no need to maintain that. Also instructor can see the results or feedback using histogram resulted through response collected, so need of this technique is not much needed.

Reference:- http://dl.acm.org/citation.cfm?id=1562562