# An E-Assessment Website to Implement Hierarchical Aggregate Assessment

**Authors :** M. Lesage, G. Raîche, M. Riopel, F. Fortin, D. Sebkhi

**Abstract :** This paper describes a Web server implementation of the hierarchical aggregate assessment process in the field of education. This process describes itself as a field of teamwork assessment where teams can have multiple levels of hierarchy and supervision. This process is applied everywhere and is part of the management, education, assessment and computer science fields. The E-Assessment website named "Cluster" records in its database the students, the course material, the teams and the hierarchical relationships between the students. For the present research, the hierarchical relationships are team member, team leader and group administrator appointments. The group administrators have the responsibility to supervise team leaders. The experimentation of the application has been performed by high school students in geology courses and Canadian army cadets for navigation patrols in teams. This research extends the work of Nance that uses a hierarchical aggregation process similar as the one implemented in the "Cluster" application.

**Keywords :** e-learning, e-assessment, teamwork assessment, hierarchical aggregate assessment
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