

Documents

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Assessment instruments for accreditation: A data management system design & implementation

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Abstract

The requirements for regional and international quality and accreditation standards are such that assessment of students' performance is carried out routinely and measures are taken to a) identify weaknesses and shortcomings and introduce measures to remedy these shortcomings, and b) relate/map the classroom assessments to higher-level standards such as ABET student outcomes. These requirements imply that some mechanism needs to be applied to collect large volumes of data and then aggregate this data to enable informed decision making by academic administrators. Current Learning Management Systems (LMS) cater for several of these requirements but fail to address some of the more important ones in the area of transformation from data to information. We show a design and implementation in C# and Oracle of a LMS system that addresses several of these issues and produces analysis results to show correctness of the design. © 2019, World Academy of Research in Science and Engineering. All rights reserved.

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