Abstract

An Educational Data Portal (EDP) play important role in teaching and learning as it contains useful resources. Every big educational institutions such as university shall build an EDP soon or later. The aim of this study is to utilize Big Data solutions in building a Dashboard for an Education Data Portal. The proposed EDP is envisioned to be a core tool for all students and learning agencies, providing support for many types of views and content/instructional resources to allow effective data-driven decision-making for students, teacher and the public, based on recent standards. It supports many features such as accessibility of data and content anywhere, scalability, extensibility of functionality, and extensibility of the technology architecture to support integration with the Shared Learning Infrastructure (SLI). The Data Dashboard is highly scalable and extensible architecture that will grow, if necessary, to meet the needs of students, and educators.
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Index Terms

Computer Science
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Keywords
Big Data; MapReduce; Hadoop; Educational Data Portal