Abstract

Cloud computing has become an adaptable technology in many organizations. It represents an important change in the way information technology is used. Moreover, most of the education institutions in the world have become extremely reliant on IT. Universities can take the benefits of cloud-based applications provided by different service providers and facilitate their use. The main aim of this research is to design a cloud-based architecture for sharing educational resources in Ethiopian higher education institutions.

This study proposes a hybrid cloud platform architecture for sharing educational resources in the higher education institutions. For the designed architecture, a prototype system was implemented using the Microsoft Windows Azure platform. The prototype is very interactive and user-friendly, which includes resource sharing and accessing portal. The developed prototype system was validated using 20 respondents in three higher education staff members and the result is presented in tabular and pie chart form.
References


Index Terms

Computer Science
Distributed Systems

Keywords

Cloud computing, Cloud based architecture, Resource sharing, Software architecture, Higher Education Resource