

# **An Implementable Architecture of E-Library Using Cloud Storage System**

K. Raja<sup>1</sup>, S. Srinivasan<sup>2</sup>, R. Subramaniya Bharathy<sup>3</sup>, K. Kannan<sup>4</sup> and P. Ponnusamy<sup>5</sup>

<sup>1</sup>*Department of CSE, Dhaanish Ahmed College of Engineering, Chennai, India*

<sup>2</sup>*Department of CS, Hindustan Arts and Science College, Chennai, India*

<sup>3</sup>*PRIMS, Periyar University, Salem, India*

<sup>4</sup>*Department of IT, Adhiparasakthi College of Engineering, Kalavai, India*

<sup>5</sup>*Department of Mech, VIT University, Vellore, India*

In olden days, the user accessed library information system are complicated due to large database appeared in single area. The need for storing the library information system in digital manner by applying cloud computing. The cloud computing resources, services are completely based on ubiquitous computing. As a result, library patrons can access services from outside of physical library by cloud computing. This paper analyses overview of cloud computing, current trends, standards and proposals for e-library with cloud storage system and possible cloud types. This paper also exposes the research reports and views of various researchers on digital library and its services using cloud concepts. The cloud storage is an innovative revelation of Information Technology of digital world. It contributes an original scheme of a cloud storage functional architecture for building e-library systems. The e-library services makes novel trend in scheme of cloud storage data center with respect to information access and dissemination of cloud computing. The cloud storage functional architecture for digital library is an internet based standard communication which maintains the inter-relationship between user and cloud storage providers. It provides information handling, speedy transfer of e-library information and linking of communication with user and cloud storage provider. It will promote the maturity level from clerical to administrative members that meet client request and recognize the sustainable growth of e-library system. This architecture progressively developed e-libraries knowledge management by means of user involvement. This e-library system using cloud storage implementation makes better data integration, reduced cost, accessible any where any time resources, elasticity, scalability and portability.

*Keywords:* E-library, Cloud computing, Cloud storage, Digital library, Computer network