**Web Scalable NoSQL Database**

**Abstract**

NoSQL database is an emerging technology and its importance is dramatically growing each minute as the digital information is stored. In the current era of extreme data scale, NoSQL provides large scale distributed computing environment that is scalable, highly available, reliable and that has great performance and. The main objective of this paper is to introduce non-relational database system NoSQL in the context of big data. It focuses on the features and use cases of NoSQL.

NoSQL architecture and BASE transaction model is studied in order to know how NoSQL is capable of horizontally scale the web application. NoSQL database model and query process is also studied in order to analyse big data.

This paper will be showing possible queries and database models that helps analysing the big data scenario. Also, possible use cases of NoSQL in context of Nepal is discussed. Population Information Data, Criminal Information Data, Election Information Data are some of the possible use cases NoSQL in Nepal that makes the importance of NoSQL worthwhile.

**Keywords:** NoSQL, Big data, BASE, CAP Theorem, SQL, ACID