

# **Implementation of Database Consistency by Active Replication**

**Khin Kaung San, Khaing**

*University of Computer Studies, Yangon*  
*kinkaungsan@gmail.com, khaingaugust@gmail.com*

## **Abstract**

*In distributed system, the database can be replicated in multiple servers stored at different sites. Certain data items may be redundantly stored at more than one site for reliability reasons. Replication is a key to providing high availability and fault tolerance in distributed systems. A fault-tolerant service always guarantees strictly correct. There are two fault-tolerant replication systems: passive replication and active replication. This system intends to implement an online banking system by using active replication. In active replication, client sends their requests to all replicas. All replicas process incoming requests in the same way and in the same order. So, not only the state of the replicas is replicated, but also the processing of the requests. Therefore, the propose system guarantee the reliable transactions processing and data consistency.*