**1 Introduction**

* 1. Purpose of the system

The purpose of this project is to create a database system that has multiple replicated databases that are stored in different servers with a major back up database for synchronization. The database system is to be implemented to the bank ATM system. A single database system controls all ATM transactions for their multiple ATM. The project aims at using database partitioning and replication to create a system that will simplify the management of the ATM bank transactions. The system will be an upgrade of the current system which provides several challenges in its functionality and maintainability. The system’s main purpose is to improve scalability which in turn improves availability in addition to increasing the manageability of the database. Upgrades and configurations to the database can be made without interfering with the normal functionality of the system.