

ABSTRACT

The exam is a definite activity carried out by each student and teacher. The test is often done his usual are written or manual, very rarely doing exams are online or automatic. But the online exam at this time began to be used but still using a single server. The test uses a single server system still has many deficiencies, among other respontime long, accommodate a lot of server load, no backup server if at any time the server is down. Therefore, the authors suggest using two backend server using load balancing, failover, as well as the shared session. With the load balancing, traffic can run optimally, maximize throughput, minimize respontime and avoid overload on one of the lines of connection. By implementing a failover, when one server is down or dies then the other server will replace it and while it processes a failover occurs any shared function session running in order for the time of the transfer of the server does not need to re-login again.

Keywords: Load Balancing, Failover, Shared Session.