**4.1.1 Purpose of the system design**

The objective of the design is to model the system with high quality.by providing value-added services to the bidder and ASTU purchasing and property directorate. Implementing of high quality system depend on the nature of design created by the designer.it provide the complete architectural overview of the proposed system.it is intended to express the significant architectural decisions which have been made on the system. the basic goal of system design is to plan a solution for the problem. Now a day people becoming more dependent on technology and understand the value of time.

**4.3.5** **Access control and security**

In the fields of physical security and information security, access control is the selective restriction of access to a place or other resource. People, computer programs even the computers that process the data must all be authorized

The more sensitive or valuable the data/info the stronger the security/access mechanism should be.

The access control is usually taken care of three steps which are identification, authentication and authorization

So to make our system secure we use factors of authentication

* Using something the user knows i.e. PIN or Password
* Using encryption
* Antivirus software
* Firewalls
* Since our system Is online based to make sure our system is secure it should be tasted on the regular basis ;

this helps to ensure that they properly support the security policy and objectives i.e by penetration test of firewalls.

Access matrix table