**Proposed Software Architecture**

Documents the system design model of the new system.

In our application we want to make sure that people can make offer or sell items easily. The interface will be user friendly, simple and easy to understand. The system has got three actors admin, registered user, visitor. The data about actors and auctions are stored in database. The data about actors and auctions are taken from database using queries. Users of the system can register to the system for free, they can search and see the items in the system but to be able to make offer or sell, they need to register to the system first. Admin and registered users will have profiles in the system and they will be able to edit profile, see their history or use e-mail.

**Overview**

Present a bird’s-eye view of the software architecture and briefly describes the assignment of functionality to each subsystem.

The system will have a layered architecture and there will be 3 layers interface , application and storage. Users will be interacting with the system using the interface layer, application layer will have all the functions of the system in it and storage layer will have all the information about the users and auctions

Storage layer will have the registeredUserData, CurrentAuction and OldAuction subsystems that has got the information about users and auctions.

Application layer will have the auction, admin, user(visitor and registered user) subsystems.

User subsystem will have the functions of register, login, searching an item on the system, editing the user profile and sending or reading messages. User subsystem keeps some of the functions for both visitor and registered user such as searching an item but some of the functions are specific to registered user and visitor separately. Visitor susbsytem has got the registration function. Registered user subsystem will keep the functions of login, editing or freezing profile, messaging.

Auction subsystem handles the auctions created by registered user, subsystem will have the functions of giving an offer to auction and winning the auction.

Admin subsystem will have the functions of managing an auction such as approving or rejecting the auction, managing the user profile such as editing their information or freezing account and managing the messages.