**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 display all the items to users, visitors will be able to search and view the items but only registered user will be able to buy or sell items and these functions will be very easy to use for users. Admin will be managing the whole system, he/she will be accepting/rejecting the auction requests and editing the registered users.

Admin interface: It provides services to admin for managing the system such as deleting or editing a registered user or approving an auction and sending or reading messages.

Visitor Interface: It provides services to visitors such as registering, searching and viewing an item.

Registered User Interface: It provides services to registered users such as buying or selling an item, freezing your account, reading/sending e-mails and searching and viewing items.

Login Subsystem: It provides authority for admin and registered user to log in to the system.

SearchItem Subsystem: It provides authority to visitor and registered user to find item they want.

ViewItem Subsystem: It provides authority to visitor and registered user to see the item closely.

SignUp Subsystem: It provides authority to visitor to sign up to this site.

MakeOffer Subsystem: It provides authority to registered user for making an offer for an item.

SellItem Subsystem: It provides authority to registered user to put new item on system for an auction.

ChangeProfileInfo Subsytem: It provides authority to registered user for changing information in their account.

SeeBoughtItems Subsystem: It provides authority to registered user to see the items he/she bought before.

SeeSoldProducts Subsysrem: It provides authority to registered user for seeing the items he/she sold before.

SeeOffers Subsystem: It provides authority to registered user to see the offers he received before.

FreezeRegisteredUser Subsystem: It provides authority to admin to freeze the account of a registered user.

UpdateUserInfo Subsystem: It provides authority to admin for changing the information of a registered user.

ReadMessage Subsystem: It provides authority to admin and registered user to read the message they received.

SendMessage Subsystem: It provides authority to admin and registered user to send a message

ApprovingAuction Subsystem: It provides authority to admin for approving or declining an auction.

ViewUser Subsystem: It provides authority to admin for seeing the list of users.