# Subsystem Services

## Presentation Layer Subsystem Services

* Takes user input
* Passes user input to the Application layer
* Displays Application Layer results

## User Subsystem Services

* *RegistrationService:* User registration
* *LoginService:* User login
* *UserSession:* Identifies the current logged in user using the system
* *ProfileManagementService:* Provides access to the logged user’s own information. Ability to view and edit its various properties.
* *RegisteredUserCreationService:* Generator for an editable *RegisteredUser*object for the current session.
* *RegisteredUserAccessService:* Access functionalities for the current logged in user’s session’s Donator object.
* *MessagingService:* Access to current logged in user’s messages and messaging functionality.
* *SearchService:* Search functionalities for *Registered Users* and their Auctions.

## Offer Subsystem Services

* *GivingOfferService:* Creation of an offer to an auction.

## Auction Subsystem Services

* *WinningAuctionService:* Winning of auction information.
* *AuctionEditorService:* Creation of auctions, editing of auctions information.

## Administration Subsystem Services

* *UserManagmentService:* Access to system users and functionality to create and edit user information.
* *AuctionManagementService:* Access to created auctions and functionality to approve or rejected their information.
* *MessageManagementService:* Access to messages sent for Administration. Functionality to send messages to users.

## Storage Layer Subsystem Services

* *UserDataService:* Interface service for Database access to User information.
* *OfferDataService:* Interface service for Database access to Offer information.

*AuctionDataService:* Interface service for Database access to Auction information.

*DBQueryService:* Database query entry service.