



East Delta University

**School of Science, Engineering &  
Technology**

**Project Name: ONLINE AUCTION SYSTEM**

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## Abstract:

An online auction project is a system that holds online auctions for various products on a website and serves sellers and bidders accordingly. The system is designed to allow users to set up their products for auctions and to register and bid for various products available for bidding. The system also consists of products sorted by categories and by price. Users feedback is also provided to Admin. Online Auction or the E-auction system project consists of the following features:

## Methodology:



Fig: Data flow diagram for home page

**User Login:** User can register online and then access the system on authentication.

**Sort Products:** Users can sort products by category and price range.

**Auction products:** Users can set up products for auction by providing details and minimum bid.

**Delete Products:** Users can delete their own products.

**Admin Login:** Admin can login to the system and view products as well as feedback and even delete other users' products.

**Auction time:** Users can set auction time on posting products for selling, the winner is declared after time elapses.

**Email notification:** Auction winner gets seller details; auction seller gets winner details on email.

### USER Login:

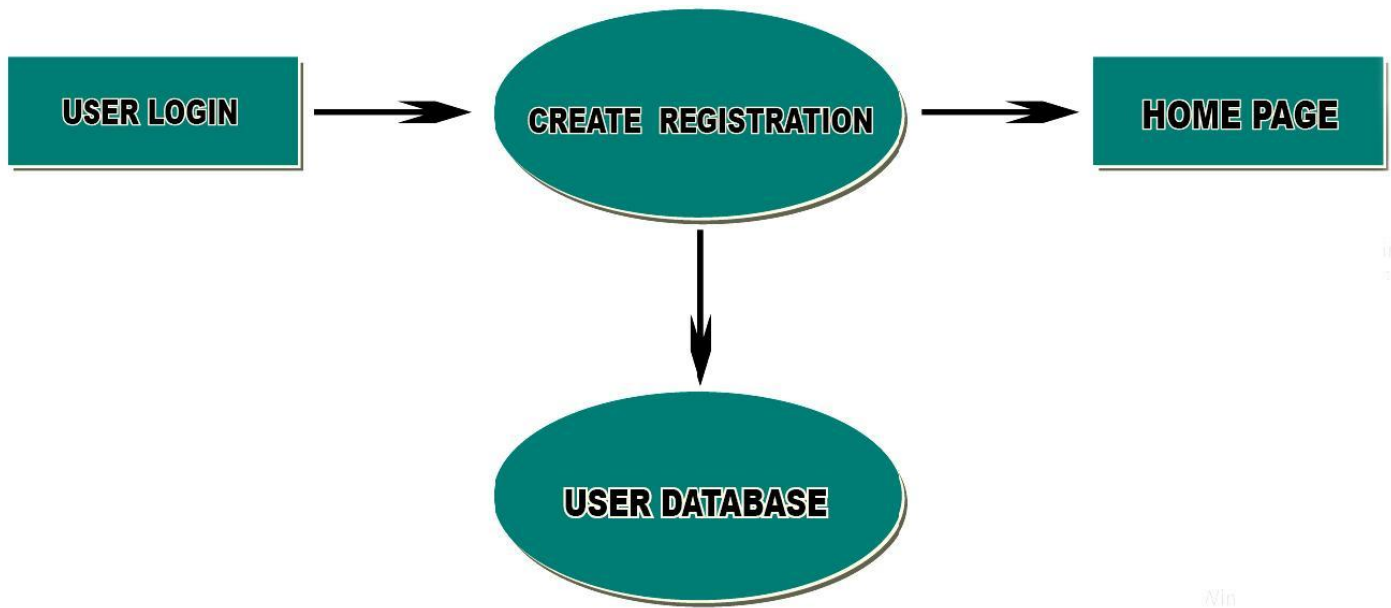


Fig: Data Flow Diagram for USER login

### User Functions:

- ❑ Create a new user (user should have the ability to place bids on items or place an item for sale or both.
- ❑ Update a user's information.
- ❑ Suspend an account.
- ❑ Delete a user account.
- ❑ List an item for auction (item should have start price, start time, quantity, time when the auction expires, shipping costs, buy now feature if applicable, item description, seller rating).

Update an item properties, including quantity, description, shipping costs, buy now feature.

Flag an item as inappropriate or counterfeit.

Categorize an item based on existing categories or create a new category if needed.

Delete an item if there are no bids on it, but do not allow an item to be deleted if there are bids on it

Bid on an item, and update that bid if another user outbids that user.

see a list of all items that are currently being bid on by that user.

Add item to cart directly via the buy now functionality.

Checkout of the auction once winning by selecting checkout from the cart.

## **Admin Functions:**

- Stop an auction early.
- Remove and block a user.
- Add, modify or remove categories.
- View all items that have been flagged by users.
- View all auctions currently in progress, and include sorting capability so that auctions ending soonest can be displayed first.
- Examine metrics for closed auctions in a given time frame (last day, week, month, etc).
- Examine emails that are received by customer support and respond to these emails within the admin functionality.

## **Auction Functions:**

- Allow listing of items for bidding.
- Start the auction when the current time matches the start time defined by the user.
- Allowing the auction window to be set by the bidder and begin count down to the end of the bidding window once auction begins.
- Allow bids to be placed and increment bid amount as users enter new bids.
- Allow items to be categorized by user.
- Allow search of items on the site by keyword or item category.
- Allow item to be placed on watch list for a user, that includes parameters defined by the user (i.e. Ray-Ban sunglasses less than \$100 in starting price).
- Send an email notification to users when an item on their watch list appears matching their criteria.
- Allow multiple bids to be placed at once by different users.
- Alert sellers when their item has been bid on with an email.
- Alert buyer via email when someone has placed a higher bid on the item they had bid current high bid on.
- Implementations of a shopping cart that will store multiple items in it while the user shops on the site.
- Allow items to be placed in the shopping cart if the buy now feature is selected.
- Place an item in a user's cart if they have the winning bid when the auction expires.
- Allow a user to checkout from their cart once there are items in it.
- Alert both seller and bidder when on predetermined time setting, 1 day before bidding ends, 1 hour before bidding ends etc.
- Remove auction once bidding is complete and user checkouts out.