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| ICOM5016 Project |
| Phase II Report |
| LHL Mobile App |

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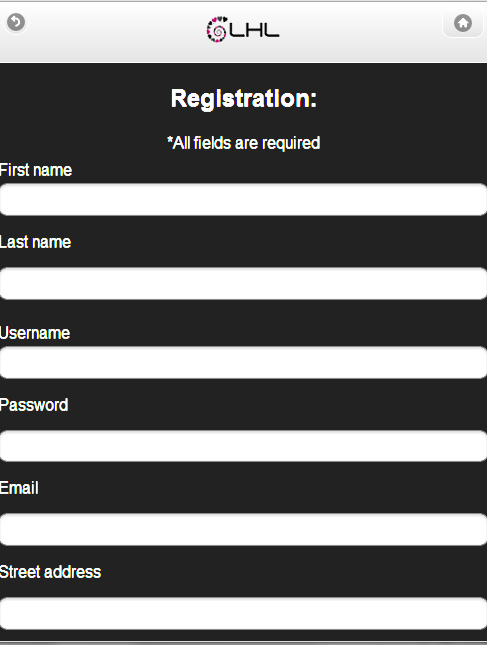
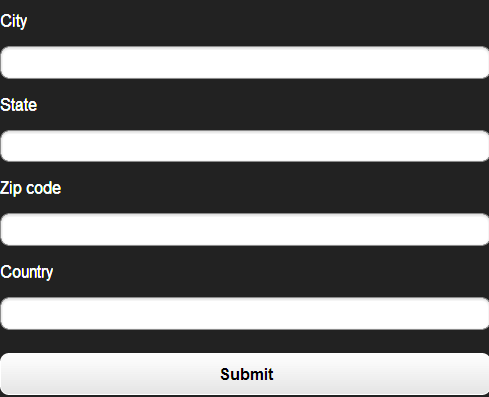
**Introduction**

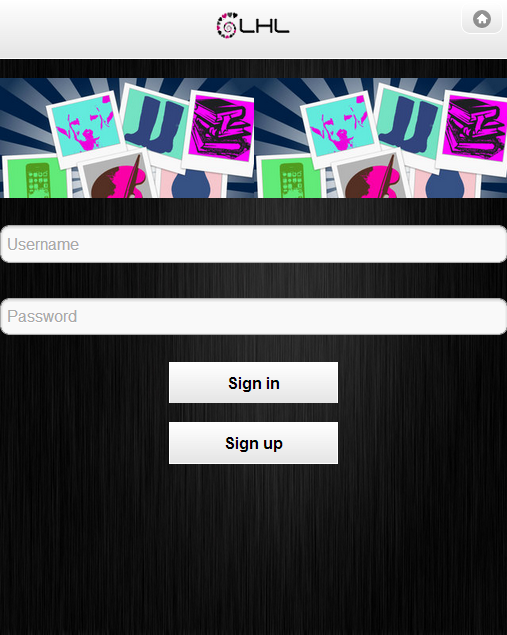
In this mobile application we design, implement and test a mobile app styled as eBay. It has been called LHL. This site is implemented using database and other technologies. The client side is implemented in jQuery Mobile. The web/application server is implemented with Node.js and the database server is PostgreSQL. The communication between client and server occurs through a REST API. In this report we present a task analysis of each of the operations users and administrators are able to perform. Additionally, screenshots are provided to demonstrate how the user can complete the described task. Finally, a description of the ER diagram prepared for this mobile application is included in the report. We describe the diagram, the ER mapping and conclude with a description of each of the tables and attributes that we consider essential for the purpose of the project.

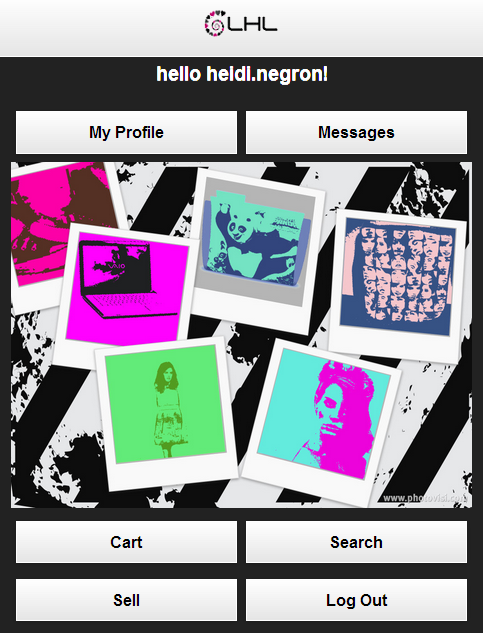
**Task Analysis**

The tasks of the mobile application LHL can classified in three main components. These components are: Account – related tasks, Sales/Auctions-related tasks and Administrator Tasks. A regular user is able to perform the following tasks:

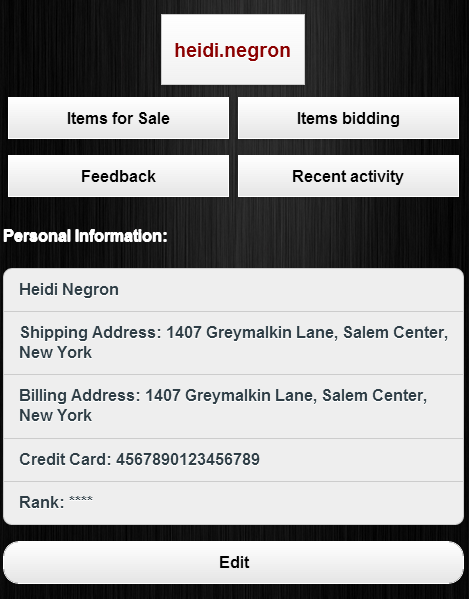
1. Account:
2. Create an account: A user creates an account. He/ She is required to provide name, last name, address, password an email.



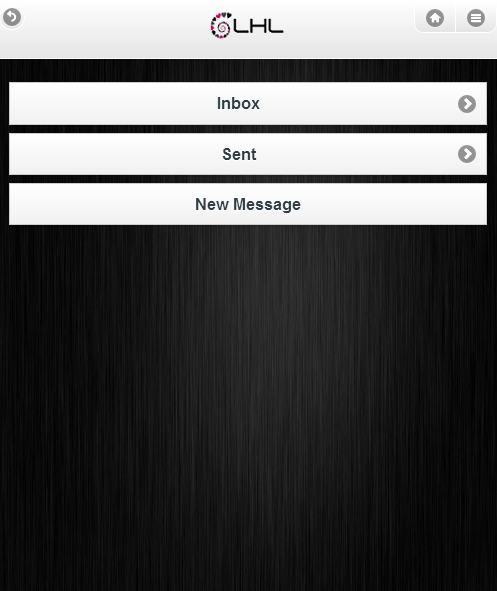
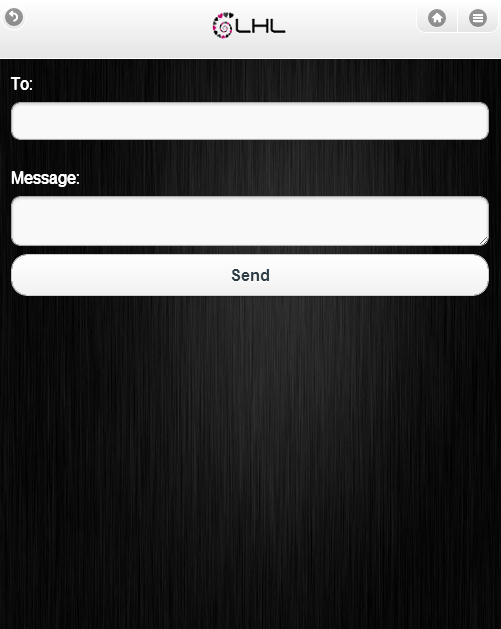
1. Login: User needs to provide a valid username/password combination.
2. Homepage: the main page of a user lets them access the main features of the mobile app: Profile, sales, cart and messages.



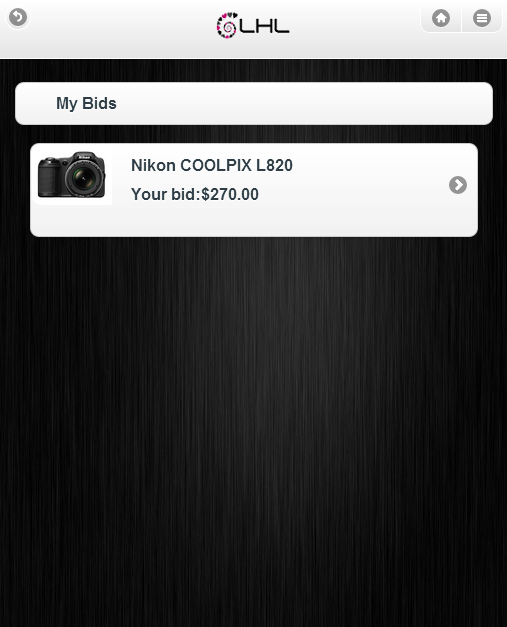
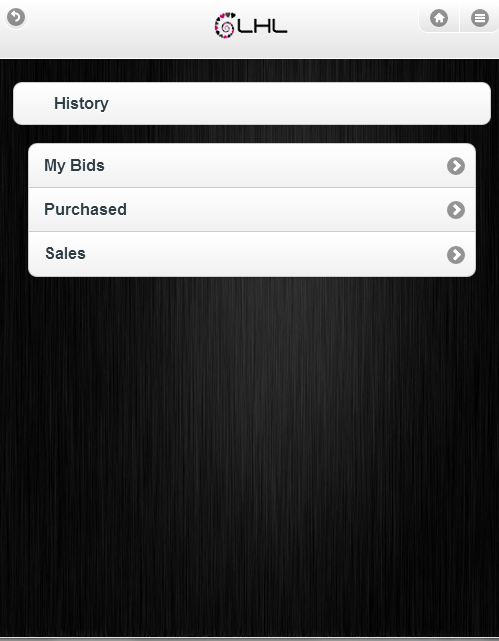
1. Profile: The user can see his profile at all times and edit its personal information.

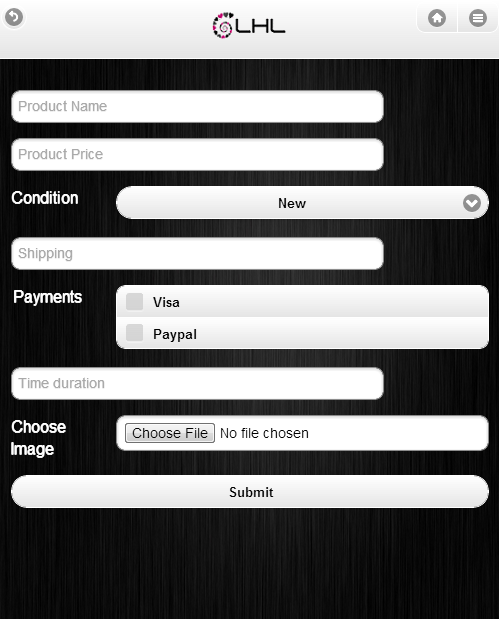


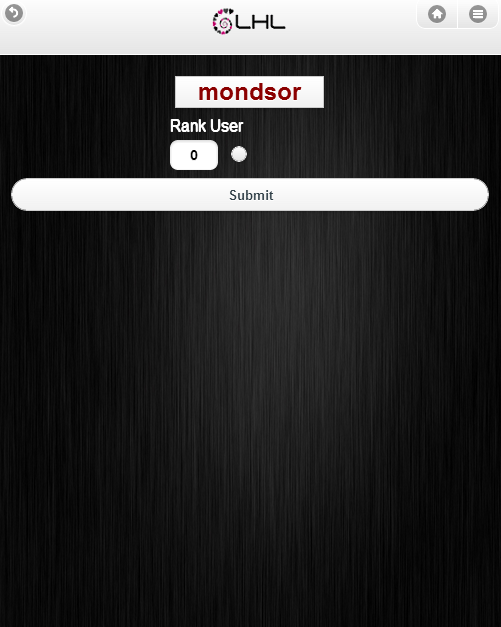
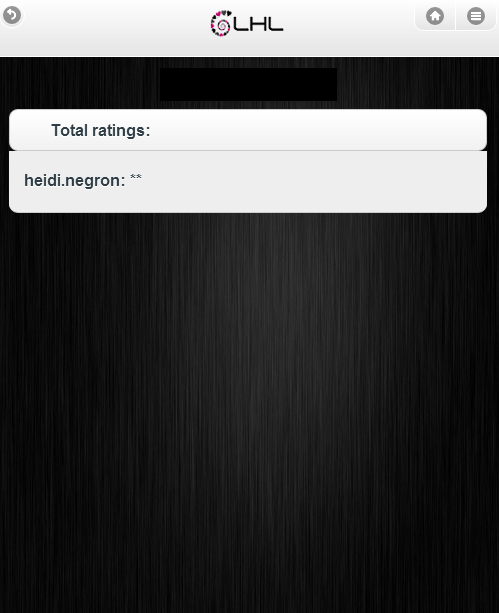
1. Messages: The user can send messages and see the messages he has sent/ received.



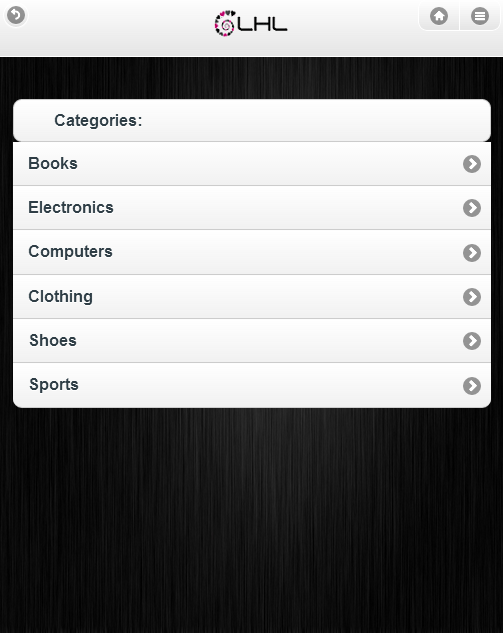
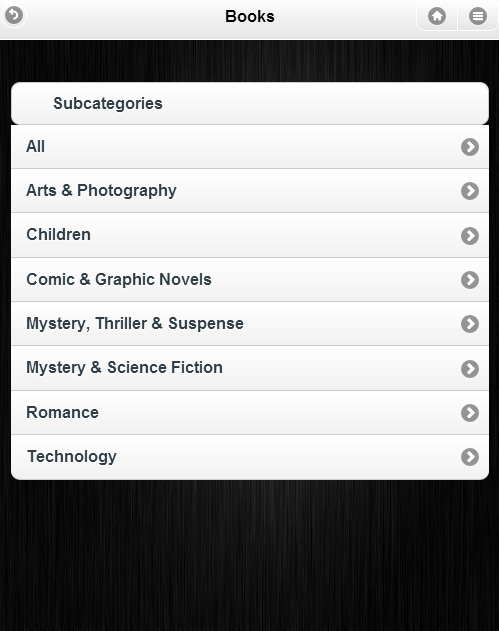
1. History: A user can see his recent activity including the bids he has placed, the current sales and the products he has purchased.

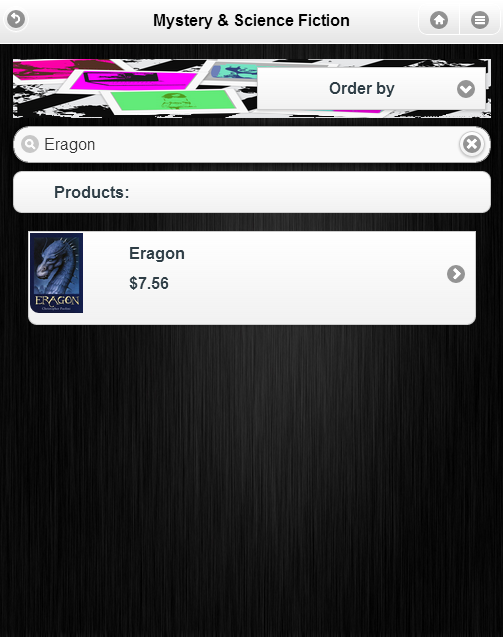


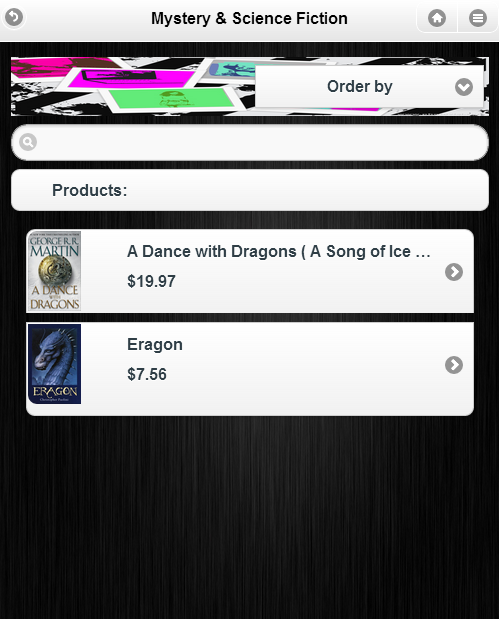
1. Create sales/auctions. It is easy for the user to create an auction/ buy-now product. He needs to specify the name, price, condition and payment methods of the product he desires to sell.
2. Rank other users: User can rank other user based on the experience of buying from the user.



1. Sales/ Auctions task:
2. Browse categories of products available.

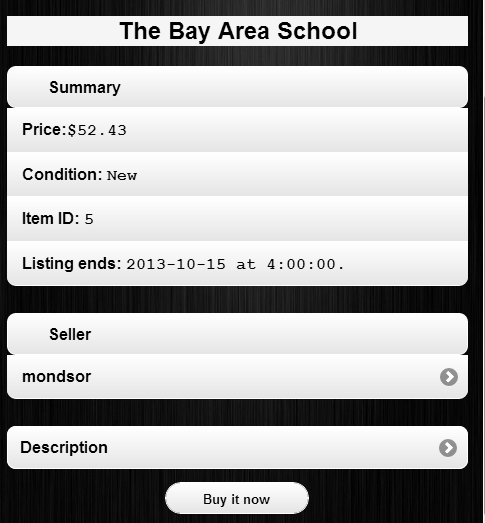


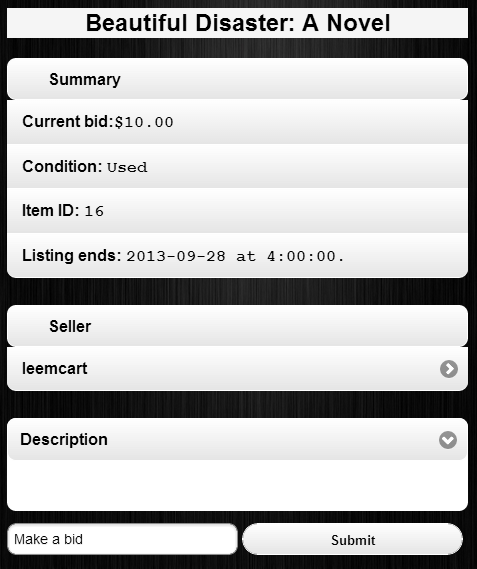
1. Search based on product name to filter results.



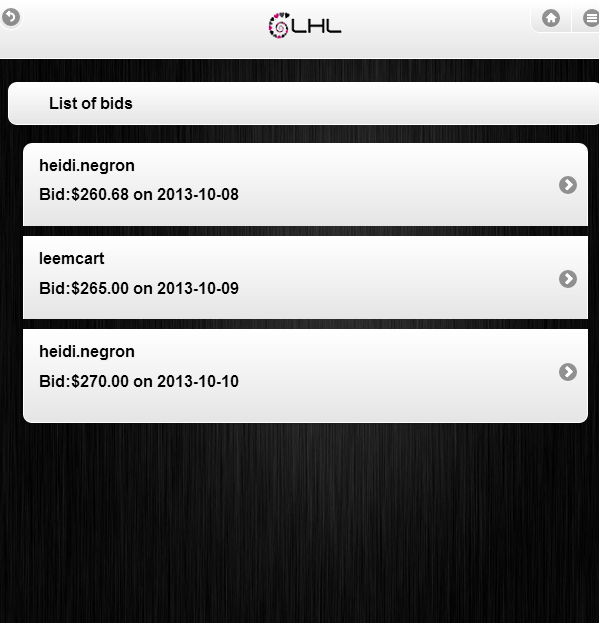
1. See description of a specific item. This description includes the summary of the product: price, condition, listing time and the item id. A description of specific details pertaining to the product such as color / model / brand is provided. The seller of item is listed and users can access his profile from there.



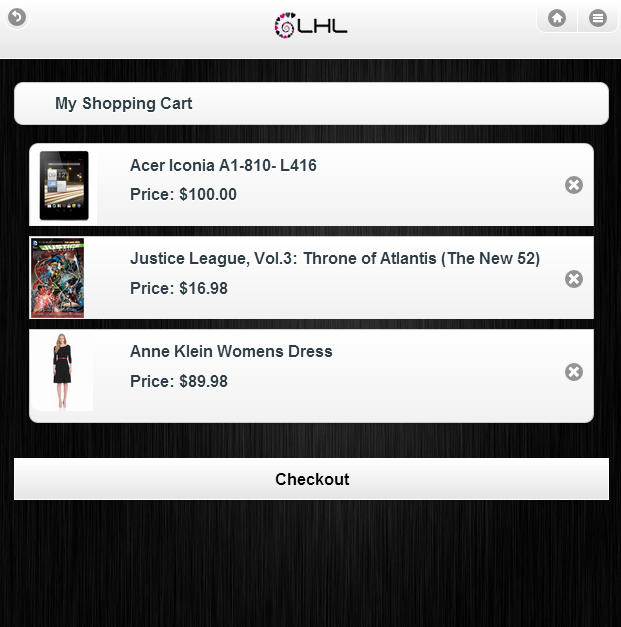
1. Place bid and/or buy a product



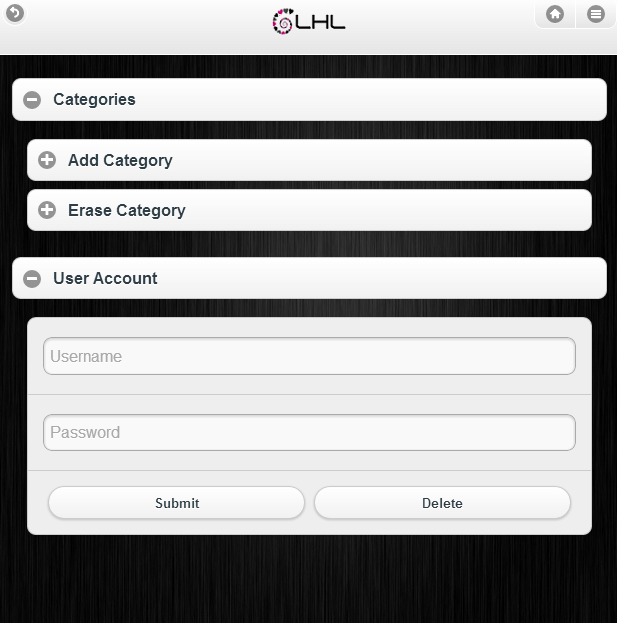
1. If the person is owner of the item, see a list of the bids placed. The username, the bid placed and the date of the bid is displayed.



1. Add item to a shopping cart and checkout.



1. Get an invoice of an order placed.
2. The users with administrator rights will also be available to:
3. Create, view and modify accounts.



1. Create and delete categories of products.

The administrator can also delete products.

