Buy, Sell n Auction

Detailed Project Report

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28/11/2018

Introduction

This Android application is inspired by the facebook group Buy n' Sell @ IITB where students often trade their belonging mainly books, stationary, bicycle etc by specifying a price. Also if you go across posts, then you may observe that people are bidding for the items in the comments section. With this app we also try to solve the bidding problem and also simple version of buy & sell based on first come first serve basis.

The we created an Application for "Buy n' Sell " for connecting the prospective buyers and sellers residing in a local area.

Abstract

In this App, Sellers can post stuff, and if a buyer has shown interest in a product then there is a private chat where they can discuss the specifics. Also if you are interested in buying something you can add it to the wishlist. Auctioning features has also been added to the application.

 The system is divided into two parts - client side which will be implemented in Android, and server-side which will be implemented using Java EE.

User Interface

Login page: UserID and Password is authenticated and redirected to the **homepage**.

NAVIGATION PANE : Home, Wishlist, Items on Sale, Messages, History

1. **Home** : This is the Homepage. It has 2 subsections- Sell Item & Auction Item.
   - Sell Item : This section contains the items that have been put on sale(not auction). The floating button in bottom right corner is for you to add item to for selling.
   - Auction Item :This section contains the items that have been put on auction. The floating button in bottom right corner is for you to add item to for auctioning. While adding auction item we also specify the deadline when will the auction end.

Note that you can edit sell and auction items and auction items later by going to the "**Items on Sale**" page .

- **Buy item:** To buy an item tap on that item appearing on your feed. You will be redirected to a page '**Buy Item Details**'. This will contain detailed description of the product. There will be a button '**Contact Seller**'. Tapping on this will redirect you to the chat screen where you can message and convince the seller or negotiate with item.

2. **Wishlist** : Tapping on wishlist tab will redirect to the page containing our wishlisted items. Tapping on an item will redirect you to the "**Buy Item Details**" page. Also you can remove any item from favourites.

3. **Items on Sale** :
   - **Sales:** Page showing current items user has put on sale. Price can be edited or item removed from here
   - **Auctions:** Items that user has put for sell for auction or he has bought in auction will be displayed if tapped. Tapping on them will show further details.

4. **Messages** : Tapping on messages tab will show all the chats that the user previously had with most recent messages. User can start a conversation by clicking on contact seller option in the description.

5. **History** : Shows all activities, bought and sold items (including the on sale items). Tapping on an item will show the full detailed description.

Profile: This contains the .details about the user such as its name and profile pic.

Tools

The major tools that are used in the project are as follows:
- Java Servlets for back end
- Android Studio for app development
- Flutter for Front End
- PostgreSQL for database management
- Java Development Kit 10.0.1 (64-bit)

E-R Diagram of the Database