Champaign Deals

Project Summary

People in Champaign found it is hard to find buyers when they require to sell useless goods or items. Also, some people are willing to buy used goods with a relatively low price. The project is a used goods trading platform that can help sellers post their used goods and let buyers find their preferred items.

Description

A Champaign trading platform allows users to sell and buy items and help them make a deal. Users can find many goods from different categories and collect their preferred goods as interests.

To be specific, users can choose different categories under the search line, also they can search items with keywords, such as bicycle, car, sublease. When buyers find preferred items, they can make deals with sellers. Also, users can mark their preferred items as interests, which are collected in a favorite.

Usefulness

UIUC is well-known to be a university with an abundance of international students. Due to the inconvenience and expense of traveling and mailing through long distances internationally, most students are unable to bring all of their supplies to campus. Moreover, most international students can't bring back all their necessities after graduation. Thus, there is a closed loop of supply and demand between the second-hand household goods produced mainly by graduates and the demand from a large number of new international students.

The university currently has vacant second-hand trading sites, most of which post items on social media rather than unifying on a dedicated platform. Therefore, out platform will fullfill this absent and provide plafrom that efficiently set bridge between the two sides.

Realness

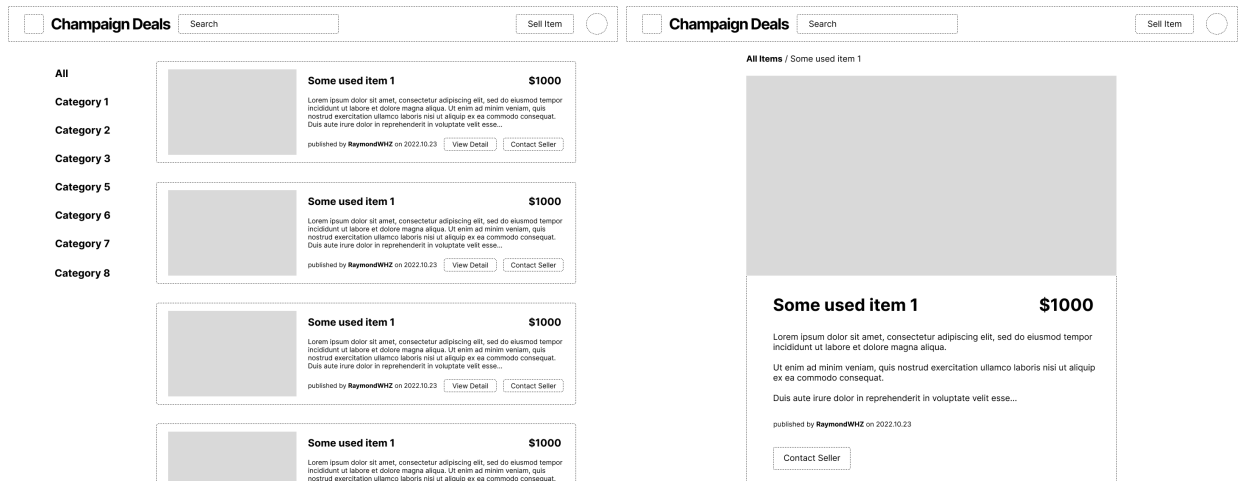Majority of the data will be inputted by users. Data structure is as follows:

- User
    - ID (PK)
    - Name

- ○ Description
- ○ Email address
- ● Item
  - ○ ID(PK)
  - ○ User ID (FK)
  - ○ Name
  - ○ Description (Markdown)
  - ○ Price
  - ○ Publish Date
  - ○ Status (available/sold)
  - ○ Category ID (FK: Categories.ID)
- ● Transaction (User-Item-User) include status
  - ○ Trade ID (PK)
  - ○ Seller ID (FK: User.ID)
  - ○ Buyer ID (FK: User.ID)
  - ○ Item ID (FK: Item.ID)
  - ○ Status (pending/deal/complete)
  - ○ Note
  - ○ Rating S-B
  - ○ Rating B-S
- ● Comment
  - ○ ID
  - ○ Content
  - ○ Date
- ● Location
  - ○ ID
  - ○ Name
- ● Categories
  - ○ ID
  - ○ Name

Functionalities

- ● Upload / edit item information
  - ○ Users can upload their items with description, preferred price
- ● Search item through categories
  - ○ Buyers can use categories to find their items quickly and directly
- ● Browse available items on sale
  - ○ Users can find whether items are sold or sold out.
- ● Send / process transaction requests on platform
  - ○ Sellers and buyers can make a transaction for items.
  - ○ They can make the transaction in a specific location
- ● Add comments under each item
  - ○ Each item has some comments which are written by anonymous users

A low fidelity UI mockup (wireframe)

Project work distribution

- UI / UX Design: Haiyue Zhang, Chang Li, Raymond Wu
- Frontend
  - Main Page: Yuteng Zhuang
  - Item Detail Page: Yuteng Zhuang
  - Item Edit: Haiyue Zhang
  - Account: Raymond Wu, Chang Li
- Backend
  - Image Upload: Yuteng Zhuang
  - Account System: Raymond Wu
  - Item Query: Haiyue Zhang , Chang Li
  - Item Editing: Haiyue Zhang
  - Transaction Management: Haiyue Zhang,Yuteng Zhuang
  - Interest Management: Chang Li, Yuteng Zhuang