xCS408

**Backlog**

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**Problem Statement**

Students always want to save money to buy used items and sell items they no longer need. There are websites like Craigslist and ebay that allow people to post or look for items they want to buy or sell. However, due to the fact that everybody can use those websites, frauds inevitably exist and items may need to be shipped across the country, taking weeks for them to arrive. So it will be much more convinient to finish the transaction in campus.

**Background Information**

**(a) Explain background information about the problem, the domain, and targeted users.**

There is a huge demand on buying and selling used items on campus. Students want to sell items that they no longer need and also look for used item with good price. Our website will serve a purpose as a trading platform for Purdue students.It can be extended to other university campus in the future.

**(b) Mention whether there are any applications or systems that are similar to your planned work.**

Some existing similar systems are Facebook groups that sell used items, as well as large formal platform like amazon, ebay, craigslist, and etc.

**(c) Discuss the limitations of other solutions and how you address each limitation.**

Trading used items is not the main function on those platform, so none of them provide native experience for college students who have demand for used items and concern for trade safety. The problem with Amazon，eBay, and Craigslist is that shipping takes certain amount of time, usually days. However, it is possible that buyer can get the item in one day by using our website. In addition, users have to use their college email address to create account, so we can verify user identification and deal with fraud easily.

**Requirements**

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| **Backlog ID** | **Functional Requirement** | **Hours** |
| 1 | As a user, I would like to have a page to sign up my account with email. | 3 |
| 2 | As a user, I would like to have a secure log in page with my email and password. | 5 |
| 3 | As a user, I would like to be able to modify my account information. | 2 |
| 4 | As a user, I would like to stay at log in stage for a certain of time, even after I close the website. | 2 |
| 5 | As a user, I would like to have a button to allow me to log out my account. | 2 |
| 6 | As a user, I would like to find the information of the stuff that people are willing to sell. | 5 |
| 7 | As a user, I would like to be able to post used stuff. | 10 |
| 8 | As a user, I would like to be able to modified the used stuff I posted. | 3 |
| 9 | As a user, I would like to be able to view all the stuff posted. | 8 |
| 10 | As a user, I would like to be able to delete the post I made. | 6 |
| 11 | As a user, I would like to be able to sort the used stuff with price. | 5 |
| 12 | As a user, I would like to check the stock of my posted stuff. | 5 |
| 13 | As a user, I would like to chat with my buyers to advertise my merchandise, if I am a seller. | 20 |
| 14 | As a user, I would like to chat with my sellers to bid the price, if I am a buyer. | 2 |
| 15 | As a user, I would like to sort items by price range. | 8 |
| 16 | As a user, I would like to sort items by categories. | 8 |
| 17 | As a user, I would like to save items to wishlist, so that I can check them later. | 5 |
| 18 | As a user, I would like to sort items by conditions. | 5 |
| 19 | As a user, I would like to have my order list. | 5 |
| 20 | As a user, I want to see the rating and comment of buyers. | 2 |
| 21 | As a user, I would like to rate the buyer after transaction. | 5 |
| 22 | As a user, I want to see the rating and comment of sellers. | 2 |
| 23 | As a user, I would like to rate the seller after transaction. | 5 |
| 24 | As a user, I want buyers know when the item is available for sell. | 5 |
| 25 | As a developer, I would like to receive user feedback. | 5 |
| 26 | As a user, I would like to be able to upload my own avatar. | 3 |
| 27 | As a user, I would like to change my password. | 2 |
| 28 | As a user, I would like to block user sending spams. | 6 |
| 29 | As a user, I would like to report bad seller / buyer. | 4 |
| 30 | As a user, I would like to give some suggestions for future modifies. | 3 |
| **Backlog ID** | **Non-functional Requirements** | **Hours** |
| 31 | Performance: The website should be loaded in a very short time. The action like posting or editing posts should be fast unless there are too many pictures in that post. The chatting should be in realtime and if it get disconnect it would try to reconnect for many times. |  |
| 32 | Security: User’s password will be encrypted with bcrypt (with hash and salt) and it will be hide along with some other sensitive information. The user’s token will also be encrypted. A user is the only person who can edit his/her own post or personal information. |  |
| 33 | Stability: The website and server should be reliable to some degree. In most of daily use condition, it should not crash. |  |
| 34 | Portability: User should be able to view and use this website from all platform with a browser, including both iOS and Android system. |  |
| 35 | Availability: The website and server should be available in most of time. Even if the server crash in some spcial cases, it will restart immediately. |  |

**Use Cases**

Case1: Sign up account.

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| **Action** | **System Response** |
| 1.Click the sign up button | 2.Jump to the sign up page |
| 3.Enter personal infomation |  |
| 4.Click “Submit” button | 5.Confirmation dialog appears |
| 6.Click “OK” | 7.The dialog disappears |

Case2: Log in account.

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| **Action** | **System Response** |
| 1.Click log in entry button | 2.Jump to the log in page |
| 3.Enter username and password |  |
| 4.Click “Log in ” | 5.Jump to the homepage |

Case3: Modify account information.

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| **Action** | **System Response** |
| 1.Choose “Modify profile info” button | 2.Jump to the profile modification page |
| 3.Change info |  |
| 4.Click “Submit” | 5.Confimation dialog appears |
| 6.Click “Confirm” | 7.The dialog appears |

Case4: Stay at log in stage.

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| **Action** | **System Response** |
| 1. User close the website and reopen it | 2. Show user kept logged in in main page |

Case5: Log out account.

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| **Action** | **System Response** |
| 1.Click “log out” button | 2. Confirmation dialog appears |
| 3.Click “Confirm” button | 4.Log out the account and jump to the welcome page |

Case6: Find the inforamtion of selling items.

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| **Action** | **System Response** |
| 1.Click the name of the item |  |
| 2.Click the “info” button near the item | 3.Jump to the description page of the item |

Case7: Post used items.

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| **Action** | **System Response** |
| 1, Click the post button | 2.Jump to the selling item page |
| 3. Enter the info of the used item |  |
| 4.Click the “Submit” button | 5.Confirmation dialog appears |
| 6.Click “Confirm” button | 7.Confirmation dialog disappears |

Case8: Modify the information of posting items.

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| **Action** | **System Response** |
| 1.Click “Modify info” button of the item | 2.Jump to the modification page of the selected item |
| 3.Modify the information |  |
| 4.Click “Submit” button | 5.Confirmation dialog appears and successful message appears |
| 6.Click “OK” | 7.”successful message ” disappears |

Case9: View all posting items.

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| **Action** | **System Response** |
| 1.Click “My sale posts” button | 2. Jump to “My sale posts” page |

Case10: Delete posting items.

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| **Action** | **System Response** |
| 1.Click the “delete” button of the item | 2.Confirmation dialog appears |
| 3.Click “Confirm” button | 4.Confirmation dialog disappears and successful message appears |
| 5.Click “OK” | 6.”successful message ” disappears |

Case11: Sort selling items by price.

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| **Action** | **System Response** |
| 1.Click “Sort items ” button | 2.A drop down menu appears |
| 3.Select “By price from low to high” | 4.A list of items sorted by price from low to high shows up on the page |
| 4.Select “By price from high to low” | 5.A list of items sorted by price from high to low shows up on the page |

Case12: Check the stock of my posted stuff.

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| **Action** | **System Response** |
| 1. Right click the posted stuff | 2. A dropdown menu appears |
| 3.Select “Check the stock” | 4. The stock info appears |

Case13: Chat with buyer.

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| **Action** | **System Response** |
| 1.Right click the buyer name | 2.A drop down menu appears |
| 3.Select “Message the buyer” | 4.Jump to the chat page of the buyer |

Case14: Chat with seller.

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| **Action** | **System Response** |
| 1.Right click the seller name | 2.A drop down menu appears |
| 3.Select “Message the seller ” | 4.Jump to the chat page of the seller |

Case15: Sort items by price range.

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| **Action** | **System Response** |
| 1.Click “Sort items ” button | 2.A drop down menu appears |
| 3.Select “By price range” | 4.Two price input window appears |
| 5.Enter the two values of the range |  |
| 6.Click the submit | 7.A list of items sorted by the price range appears |

Case16: Sort items by categories.

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| **Action** | **System Response** |
| 1.Click “Sort items ” button | 2.A drop down menu appears |
| 3.Select “By categories” | 4.A list of categories appears |
| 5. Select a category and then click “OK” | 6.A list of items in the category appears |

Case17: Save items to wishlist.

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| **Action** | **System Response** |
| 1.Right click the item name | 2.A drop down menu appears |
| 3.Click “Save the item to wishlist” | 4.A confirmation dialog appears |
| 3.Click “Confirm” button | 4.A successful message appears |
| 5.Click “OK” | 6.The ”successful message ” disappears |

Case18: Sort items by condition.

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| **Action** | **System Response** |
| 1.Click “Sort items ” button | 2.A drop down menu appears |
| 3.Select “By condition” | 4.A list of condition appears |
| 5. Select a condtion and then click “OK” | 6.A list of items in the same conditoin appears |

Case19: Check order list.

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| **Action** | **System Response** |
| 1.Click the “My profile” button | 2. Jump to my profile page |
| 3.Click the “My order” button | 4.Jump to “My order” page |
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Case20: See rating and comments of buyers.

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| **Action** | **System Response** |
| 1. Click buyer’s avatar | 2. Display buyer personal information, including rating and comments |

Case21: Rate buyers after transaction.

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| **Action** | **System Response** |
| 1. Click rate button in buyer’s profile page | 2. Display buyer’s profile page |
| 3. Rate the buyer and click submit button | 4. Show success alert and dismiss buyer’s profile page |
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Case22: See rating and comments of sellers.

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| **Action** | **System Response** |
| 1. Click seller’s avatar | 2. Display seller personal information, including rating and comments |
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Case23: Rate sellers after transaction.

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| **Action** | **System Response** |
| 1. Click rate button in seller’s profile page | 2. Display seller’s profile page |
| 3. Rate the seller and click submit button | 4. Show success alert and dismiss seller’s profile page |
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Case24: Get notification when item is available for sell.

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| **Action** | **System Response** |
| 1. Buyer click follow button for a market item in market view | 2. Show buyer following that market item in market view |
| 3. When seller click available for sell button | 4. Show a notification view in buyer’s page |
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Case25: Receive user feedback.

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| **Action** | **System Response** |
| 1. Click feeback button in navigation bar | 2. Display feedback page |
| 3. Filling the feedback content and click submit button | 4. Dismiss feedback page |
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Case26: Upload avatar.

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| **Action** | **System Response** |
| 1. Click avatar button in user profile page | 2. Show file browser to select image |
| 3. Select image and click submit button | 4. Refresh the profile page with newly uploaded avatar |
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Case27: Change password.

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| **Action** | **System Response** |
| 1. Click reset password in user profile page | 2. Show reset password page |
| 3. Filling the old and new password and click submit button | 4. Show profile page |
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Case28: Block user sending spams.

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| **Action** | **System Response** |
| 1. Click block user in market view | 2. Refresh the page and hide all information sent by that user |
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Case29: Report sellers/buyers.

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| **Action** | **System Response** |
| 1. Click report button in chatting view | 2. Show report popup view |
| 3. Filling the popup view and click report button | 4. Dismiss the popup view and chatting view |
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Case30: Give suggestions for future modification.

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| **Action** | **System Response** |
| 1. Click feeback button in navigation bar | 2. Display feedback page |
| 3. Filling the give suggestion content and click submit button | 4. Dismiss feedback page |
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