Team 7

Project Phase 3 Requirements & UI Design

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Repository Information: git clone git@cs442.ddns.net:~/team7_proj_cs442.git (Please send configuration manager your public key)

Ticket and code tracker (redmine) http://cs442.ddns.net:3000

(Credentials were distributed in phase 2)

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1. Requirements (15 points)

1.1. Requirements and features list

The project requirements and features have been reduced since phase 1 due to the loss of teammates, time, and programming ability of teamr

Below are the requirements and feature stories.

A user should be able to list an advertisement of an item for sale, exchange or free

A user should be able to take a picture of their item to be sold, exchanged, or given away

A user should be able to view pictures taken using the platform

A user should be able to log into the system with their iit account

A user should only be able to log into the system if they have a picture

A user should only be able to log into the system if they have a non-default picture

A user should be able to buy/solicit the purchase of the item from the community

An item listing should contain a picture, title, description and price

A user should be able to take a picture of an item with their phone or tabled

A user should be able to use a picture from their gallery to list an item.

A snapshot of our redmine feature list:

17	Feature	New	Normal	Add connection system for remote database	Janusz Nosek
16	Feature	New	Normal	Investigate and create fragment flow from clicking on item list to description	Janusz Nosek
12	Feature	New	Normal	Create a list entry fragment	Janusz Nosek
38	Feature	In Progress	Normal	Create watchlist	Janusz Nosek
37	Feature	In Progress	Normal	Design remote database	Ernesto Garcia
21	Feature	In Progress	Normal	Integration of login system and account creation	Janusz Nosek
13	Feature	In Progress	Normal	Create the search fragment	Janusz Nosek
10	Feature	In Progress	Normal	Create item picture lightbox fragment	Janusz Nosek
8	Feature	In Progress	Normal	Create picture removal fragment	Ernesto Garcia
1	Feature	In Progress	Normal	Find dynamic database solution with SSL	Janusz Nosek
43	Feature	Feedback	Low	Create UPC datasource lookup	Janusz Nosek
42	Feature	Feedback	Low	Create ISBN lookup data source	Janusz Nosek
39	Feature	Feedback	Normal	Implement barcode IO encoding and decoding system.	Janusz Nosek
119	Feature	Closed	Normal	implement user picture md5 comparison	Janusz Nosek
118	Feature	Closed	Normal	implement default user	Janusz Nosek

117	Feature	Closed	Normal	implement backend description retrieval	Janusz Nosek
116	Feature	Closed	Normal	implement item listing to item description listing	Janusz Nosek
115	Feature	Closed	Normal	implement cursor adapter in item adapter	Ernesto Garcia
114	Feature	Closed	Normal	upgrade email to 254	Janusz Nosek
113	Feature	Closed	Normal	change date to long for better sorting	Janusz Nosek
112	Feature	Closed	Normal	add db subconfiguration mechanism	Janusz Nosek
111	Feature	Closed	Normal	add price to backend functions	Janusz Nosek
110	Feature	Closed	Normal	add price to database	Janusz Nosek
109	Feature	Closed	Normal	add listener to item entry fragment for listing component	Janusz Nosek
108	Feature	Closed	Normal	resolve the gallery activity	Janusz Nosek
107	Feature	Closed	Normal	resolve the camera activiy	Janusz Nosek
106	Feature	Closed	Normal	add date picker to item entry fragment	Swathi Shenoy
105	Feature	Closed	Normal	Add image to item entry fragment	Janusz Nosek
104	Feature	Closed	Normal	create item listing callback system	Janusz Nosek
103	Feature	Closed	Normal	create secondary scaling function	Janusz Nosek
102	Feature	Closed	Normal	create bicubic scale fuction for efficient bitmap decoding	Janusz Nosek
101	Feature	Closed	Normal	Create bitmap thumbnail generator	Janusz Nosek
100	Feature	Closed	Normal	create bitmap decoding system	Janusz Nosek
99	Feature	Closed	Normal	create bitmap encoding system	Janusz Nosek
98	Feature	Closed	Normal	create backend to view users	Janusz Nosek
97	Feature	Closed	Normal	create backend to view items	Janusz Nosek
96	Feature	Closed	Normal	create backend to get invidual user	Janusz Nosek
95	Feature	Closed	Normal	Create backend test harness	Janusz Nosek
94	Feature	Closed	Normal	Create backend to insert user	Janusz Nosek
93	Feature	Closed	Normal	Create backend to list most recent item	Ernesto Garcia
57	Feature	Closed	Normal	Integrate the Sell Item Init and Content Description Display	Swathi Shenoy
54	Feature	Closed	Normal	Add a bypass user	Ernesto Garcia
48	Feature	Closed	Normal	Creating Sell Fragment Layout	Swathi Shenoy
46	Feature	Closed	Normal	Test item switching	Janusz Nosek
45	Feature	Closed	Normal	Test horizontal/vertical orientation	Janusz Nosek
44	Feature	Closed	Normal	Test basic google login	Janusz Nosek
41	Feature	Closed	Normal	Create database adapter	Swathi Shenoy
40	Feature	Closed	Normal	Implement item entry workflow	Ernesto Garcia

36	Feature	Closed	Normal	Create base login activity using google login	Janusz Nosek
35	Feature	Closed	Normal	Transfer IIT fonts	Janusz Nosek
34	Feature	Closed	Normal	Transfer iit color schemes	Janusz Nosek
33	Feature	Closed	Normal	Create clear/x icon	Janusz Nosek
32	Feature	Closed	Normal	Create refresh icon	Janusz Nosek
31	Feature	Closed	Normal	Create No-Picture placeholder icon	Janusz Nosek
30	Feature	Closed	Normal	Create spyglass icon	Janusz Nosek
29	Feature	Closed	Normal	Create arrow icon	Janusz Nosek
28	Feature	Closed	Normal	Create login icon	Janusz Nosek
27	Feature	Closed	Normal	Create icon	Janusz Nosek
			In		
22	Feature	Closed	Progress	Retrieve and show top 100 items.	Ernesto Garcia
20	Feature	Closed	Normal	Set up Mysql Database	Janusz Nosek
19	Feature	Closed	Normal	Implement student rank major/rank retrieval system	Janusz Nosek
18	Feature	Closed	Normal	Add local database system	Ernesto Garcia
15	Feature	Closed	Normal	Investigate clicking system for recyclerView	Janusz Nosek
11	Feature	Closed	Normal	Create description removal fragment	Swathi Shenoy
9	Feature	Closed	Normal	Create bottom button fragment for item description	Janusz Nosek
7	Feature	Closed	Normal	Create contact seller fragment	Ernesto Garcia
6	Feature	Closed	Normal	Create a dialog box for picture selection when creating item	Ernesto Garcia
5	Feature	Closed	Normal	Create item entry fragment	Janusz Nosek
4	Feature	Closed	Normal	Create category list item fragment	Swathi Shenoy
3	Feature	Closed	Normal	Create list of categories	Swathi Shenoy
2	Feature	Closed	Normal	Create item description fragment	Janusz Nosek


Team 7

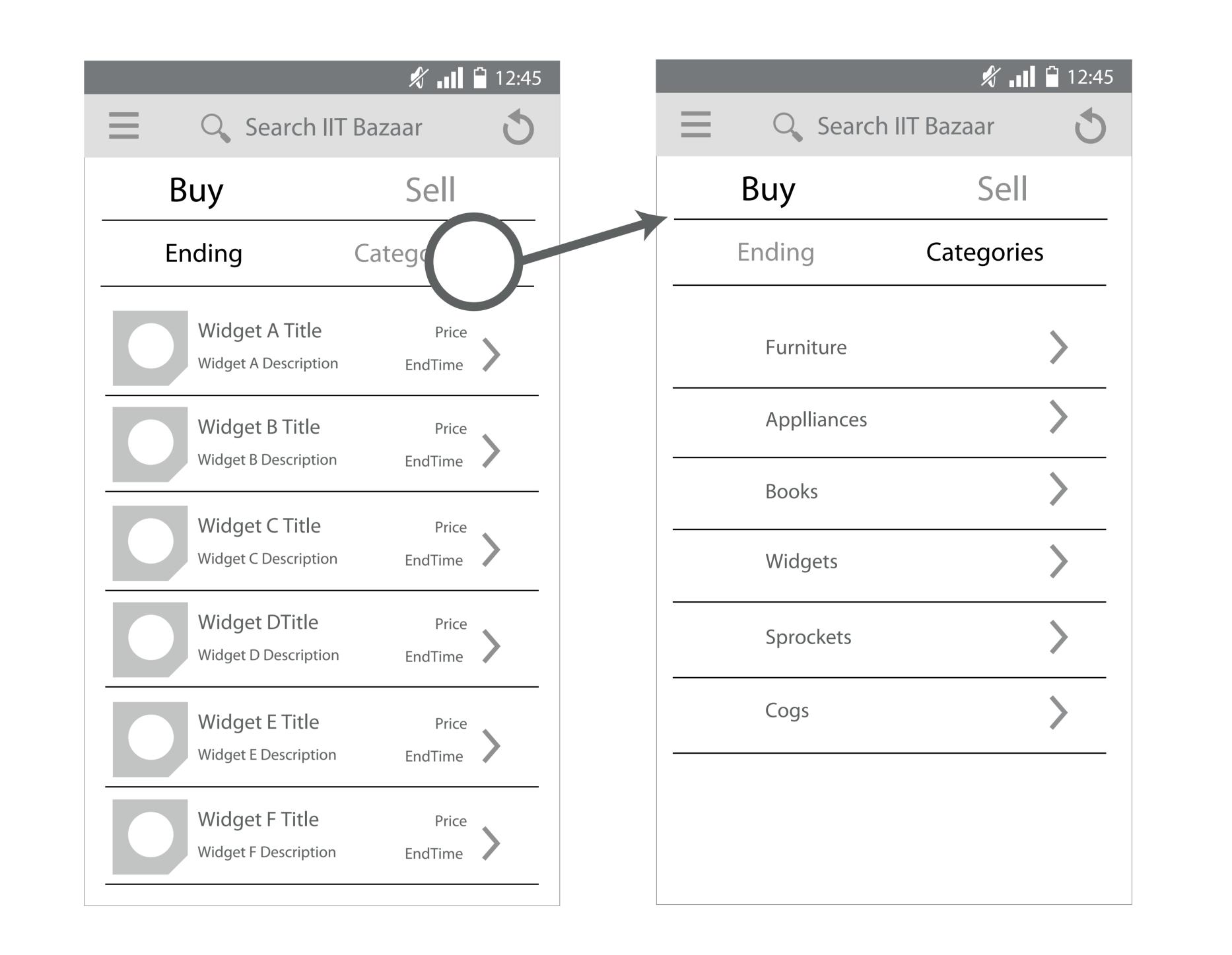
IIT Bazaar UI Design



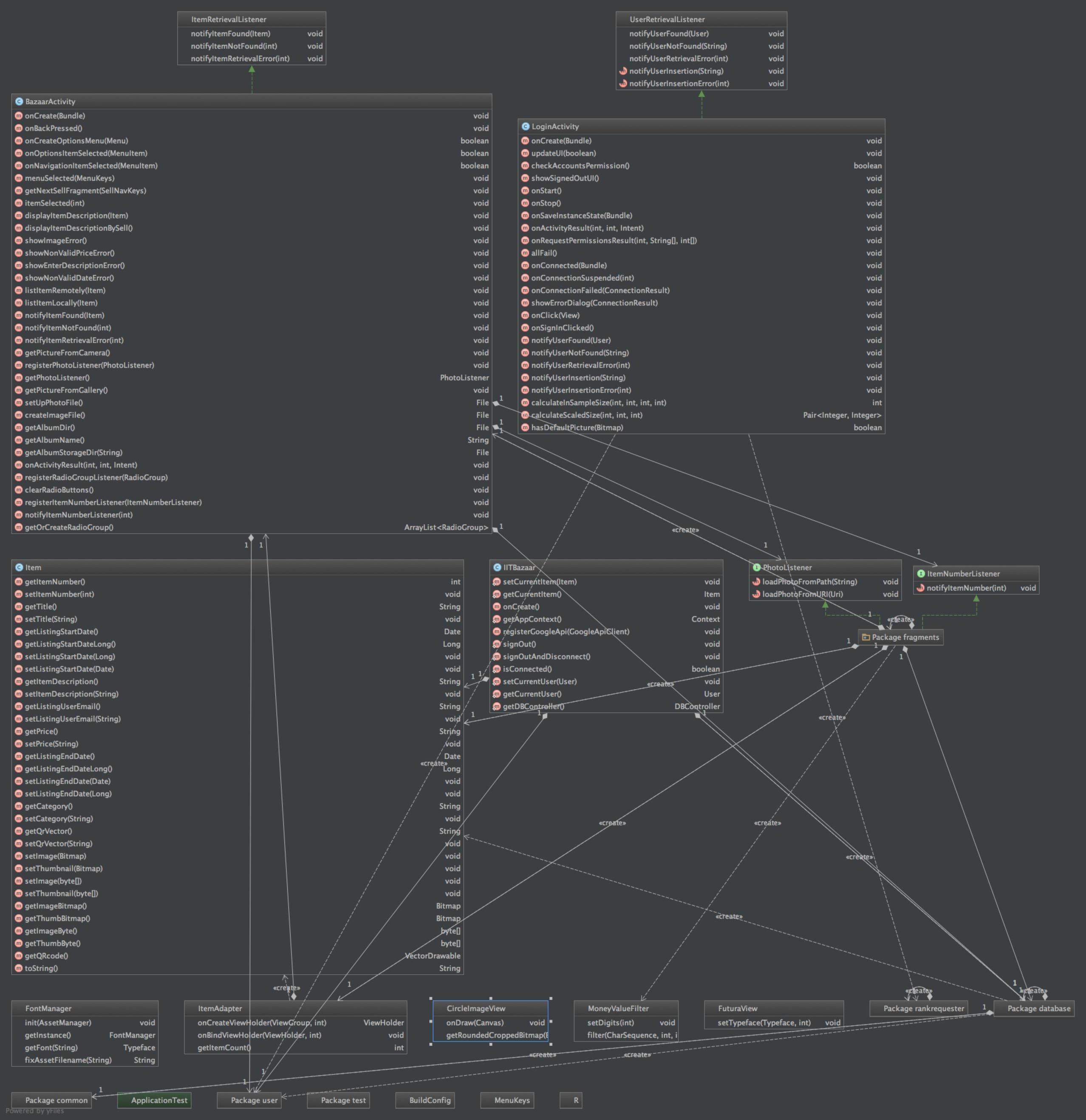


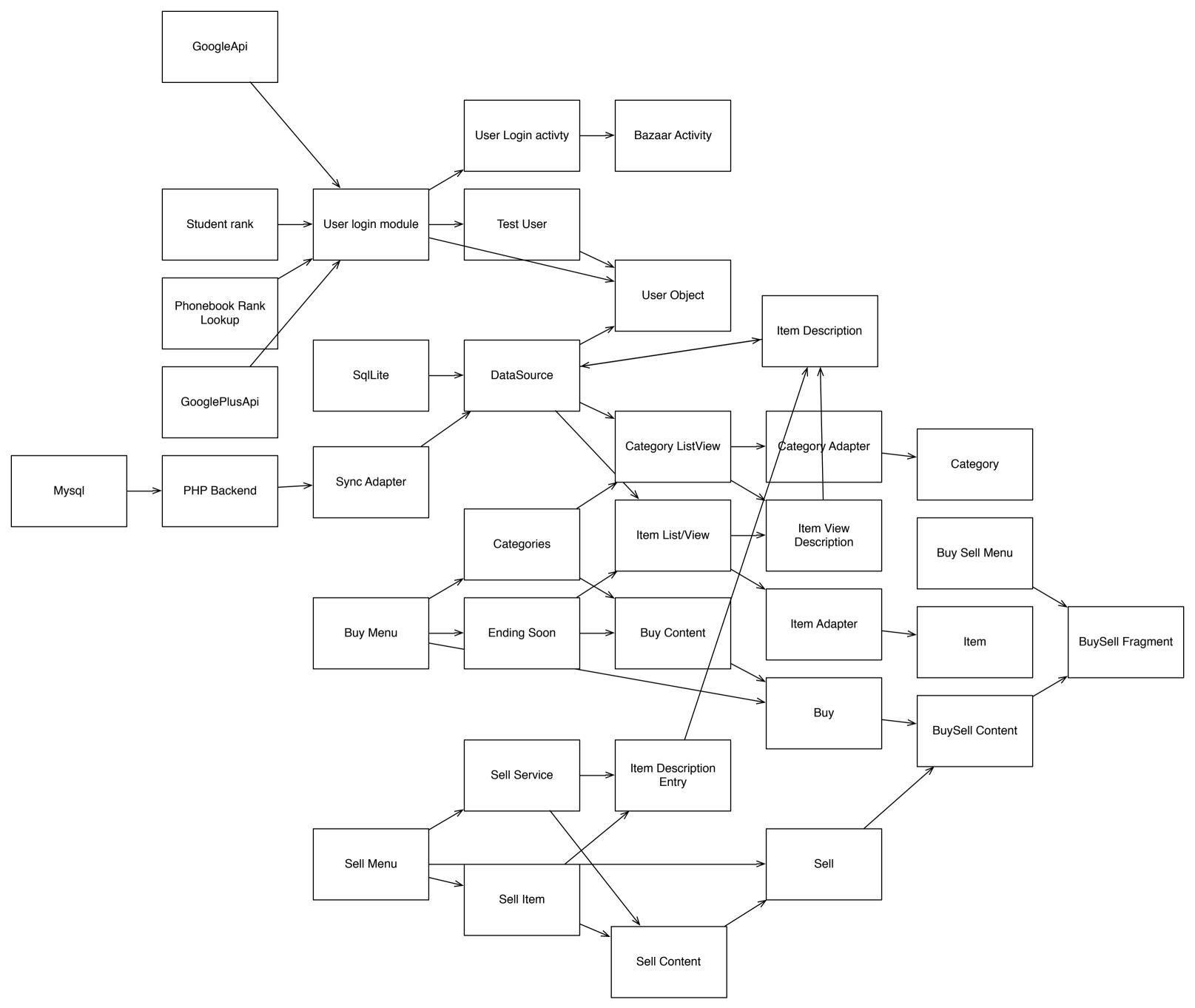












1.4 APIs and class list.

```
com.android.support:appcompat-v7:23.1.0
com.android.support:support-v4:23.1.0
com.android.support:design:23.1.0
com.android.support:recyclerview-v7:23.1.0
com.google.android.gms:play-services-identity:8.1.0
com.google.android.gms:play-services-plus:8.1.0
org.jsoup:jsoup:1.8.3
com.google.code.gson:gson:2.3
com.loopj.android:android-async-http:1.4.9
com.google.zxing:core:3.2.1
com.google.zxing:android-core:3.2.1
com.google.zxing:android-integration:3.2.1
org.jfree:jfreesvg:3.0
net.glxn.grgen:android:2.0
```

Of special note, google play services identity is used for login as well as the plus api.

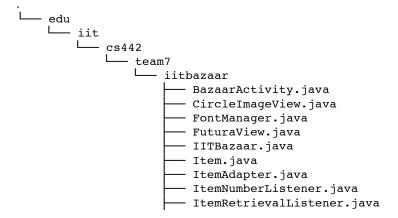
ZXing is used of the barcoding if they are part of the final product.

qrGen is used in conjunction with ZXing.

jfreeSVG is used for vector graphic manipulation in conjunction with qrGen

Gson is used for backend processing

Android support, design, and recyclerview are new topics and not covered in class. They allow for real time and dynamic list update mechanisms.



- LoginActivity.java
— MenuKeys.java
— MoneyValueFilter.java
— PhotoListener.java
UserRetrievalListener.java
common
DBKeys.java
DepartmentKeys.java
FontConstants.java
LevelKeys.java
MysqlDataSizes.java
RankResultCode.java
— database
CustomDBAdapter.java
DBController.java
— fragments
BuyFragment.java
BuyMenuFragment.java
BuySellButtonFragment.java
CategoryEragment invo
<pre>CategoryFragment.java ContactSellerContactFragment.java</pre>
ContactSellerFeedbackFragment.java
ContactSellerFragment.java — ContactSellerFragment.java
ContactSellerItemsFragment.java
ContactSellerNameFragment.java
ContactSellerPictureFragment.java
DescriptionRemovalFragment.java
ItemDescriptionButtonFragment.java
- ItemDescriptionContentFragment.java
ItemDescriptionFragment.java
ItemEntryFragment.java
PictureEntryDialogBoxFragment.java
RecyclerViewCategoryListFragment.java
RecyclerViewItemListFragment.java
RemovePictureButtonFragment.java
RemovePictureFragment.java
SellFragment.java
SellItemInitEntryFragment.java
SellMenuFragment.java
— SellNavKeys.java
SellServiceInitEntryFragment.java
TestFragment.java
rankrequester
Harness.java
HarnessHelper.java
PhoneBookKeys.java

```
└── RankRequesterService.java

── user

└── User.java
```

10 directories, 54 files

```
- config.php
   - db_connect.php
  - db_functions.php
  — get categories.php
  — get_item.php
  — get_item_description.php
  - get_items_after_date.php
  — get_user.php
  - insert_item.php
  — insert_user.php
  — test_get_item.php
  — test_get_user.php
  — view_categories.php
  — view items.php
  — view_users.php
view_watchlist.php
0 directories, 16 files
```

2. Test cases and test report (15 points)

Tracker	Status	Subject	Assignee	Description
		Sell screen activities: In the selling item details screen, select ending date previous to current date and press list		It throws a error pop up prompting the user to
Test	New	item.	Swathi Shenoy	enter a date later than current date
		Sell screen activities: Enter all the details correctly in the sellign item details screen		It lists the item entered with all the details and gives
Test	Closed	and click on List Item	Swathi Shenoy	option to Follow, Buy or Share it.

		Sell screen activities In the selling item details screen, leave the description blank		Expected: It throws a error pop up prompting the
Test	Closed	and press list item.	Swathi Shenoy	user to enter the description
		Sell screen activities In the	,	·
		selling item details screen,		
		leave the price blank and		Expected: It throws a error pop up prompting the
Test	Closed	press list item	Swathi Shenoy	user to enter the price
		Sell screen activities In the		
		selling item details screen,		
		leave the image blank and		Expected: It throws a error pop up prompting the
Test	Closed	press list item.	Swathi Shenoy	user to upload an image
		Sell screen activities Enter		
		the title of item to be sold		Expected: It navigates to next screen where further
Test	Closed	and click on Enter.	Swathi Shenoy	details about the item to be sold is entered.
				The background color and theme must be
				consistent with the rest of the app.
		Buy screen activities Check		The confliction of the confliction of the
Toot	Classed	the overall layout of the	Counth: Change	The radio tabs on the top of the page must be
Test	Closed	page .	Swathi Shenoy	aligned correctly.
				Check the listing dataCheck the alignment and value
				of ending date in the listing. It must be later than
Test	Closed	Buy screen activities	Swathi Shenoy	current date
Test	Closed	Buy screen activities	Swathi Shenoy	
	3.0000	22, 22.20	211000000	Check the listing data
				Check the nothing data
Test	Closed	Buy screen activities	Swathi Shenoy	Check the alignment and text of price in the listing

				Check the listing data
				Check the alignment and text of item name in the
Test	Closed	Buy screen activities:	Swathi Shenoy	listing
				Check the listing data
				Check the image displayed on the extreme left side
Test	Closed	Buy screen activities	Swathi Shenoy	of the item
		Buy screen activities User		Expected: It lands in the main page and displays the
Test	Closed	logs in and it is successful		list of item which can be bought
		Side menu and navigation		
		Go to Categories screen and		
Test	Closed	click on Buy tab on the top	Swathi Shenoy	It navigates to Buy screen
		Side menu and navigation -		
		Go to Categories screen and		
Test	Closed	click on Sell tab on the top	Swathi Shenoy	It navigates to Sell screen
		Side menu and navigation		
		Go to Sell screen and click on		
Test	Closed	Selling Item tab on the top	Swathi Shenoy	It displays the list of items being sold by the user
		Side menu and navigation -		
_		Go to Sell screen and click on		
Test	Closed	Buy tab on the top	Swathi Shenoy	It navigates to Buy screen
		Side menu and navigation		
_		Go to Buy screen and Click		It navigates to Category screen listing the categories
Test	Closed	on Category tab on the top	Swathi Shenoy	of items available.
		Side menu and navigation		
		Go to Buy screen and Click		
Test	Closed	on Ending tab on the top	Swathi Shenoy	It navigates to the buy screen
		Side menu and navigation		
		Go to Buy screen and Click		
Test	Closed	on Sell tab on the top	Swathi Shenoy	It navigates to Sell screen

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Test	Closed	Side menu and navigation Click on the Disconnect option in the side menu	Swathi Shenoy	It disconnects the user session and logs out of the app
Test	Closed	Side menu and navigation Click on the Logout option in the side menu	Swathi Shenoy	It logs out of the app
Test	Closed	Side menu and navigation Click on Home option in the side menu	Swathi Shenoy	It navigates to the buy screen
Test	Closed	Side menu and navigation Login to the app and click on the hamburger icon	Swathi Shenoy	It shows the list of navigation options
Test	Closed	Login screen activities User logs in and wants to register with his hawk ID to use the app	Swathi Shenoy	The app opens and prompts the user to add new google account with which he/she can login.
Test	Closed	Login screen activities User clicks on IIT Bazaar app and she/he is not connected to the internet	Swathi Shenoy	The app throws an error message stating that there is no internet connection and user should check this and reopen the app to Login screen activities User clicks on IIT Bazaar app and she/he is not connected to the internet
Test	Closed	Login screen activities User clicks on IIT Bazaar app and she/he is connected to the internet	Swathi Shenoy	The app home page loads fine and prompts user for the login creds
Test	Closed	Login screen activities User enters his/her hawk ID and clicks on Login(invalid user ID)	Swathi Shenoy	The backend validates that the user name is invalid and throws an error message
	310304	1.0,	Julia Citi Street Toy	and an one an error message

		Login screen activities User enters his/her hawk ID and		The backend validates that the user name is a valid
Test	Closed	clicks on Login(Valid user ID)	Swathi Shenoy	and gets navigated to the item listing view
		Login screen activities: Go to		
		menu and click on the IIT		
Test	Closed	Bazaar app.		The app opens and prompts the user to login
				Test case Description:Go to menu and click on the
				IIT Bazaar app.
		Login Activities for IIT Bazaar		*Expected output*: The app opens and prompts the
Test	Closed	арр	Swathi Shenoy	user to login

3. Elevator Pitch - Predemo (15 points)

Done on 11/14/2015

4. Use cases from end user point of view (+5 points)

The target user of this application is a member of the IIT community and to enable that community to facilitate the exchange of goods and service for otherwise. A predecessor of this system was also called the IIT Bazaar. This system is restricted to IIT students only to keep the safety and

A selling/listing users would list an item on the network and this item would be available for all to see.

The selling use must include a picture, a short description and a price. The price can be 0.00, meaning free or they are willing to trade. As is standard during the end of a semester, people will throw out many of their belonging. This can be put to a better cause by offering the chance for other student these items for either free, money or a trade for something of equal value but small and easier to transport.

A buying/soliciting user would look for items they want and click the buy button, which would message selling/listing user. Negotiation and meeting done through the already available email and the emails are structured in a way that allows filtration.

Listing on this system provides a safe environment for students, staff and faculty to exchange goods and services. As with services like craigslist, mere person in public places such as the MTCC is recommended, viewing the item before purchase is also recommended. Also, most importantly, money i instrument that can be exchanged for goods, but they can also be given away or exchanged/bartered for something else.

This system mainly provides a solicitation platform for classified advertisements. Unlike a bulletin board, the scope is much narrower and specifically photos and items to be exchanged.

See additional use case diagram on next page

UML Use Case —IIT Bazaar

