## Team 7

# Project Phase 4 Requirements & UI Design

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Design

Documentation Version Manager Configuration Manager

Integration

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Tests/Vaidation

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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

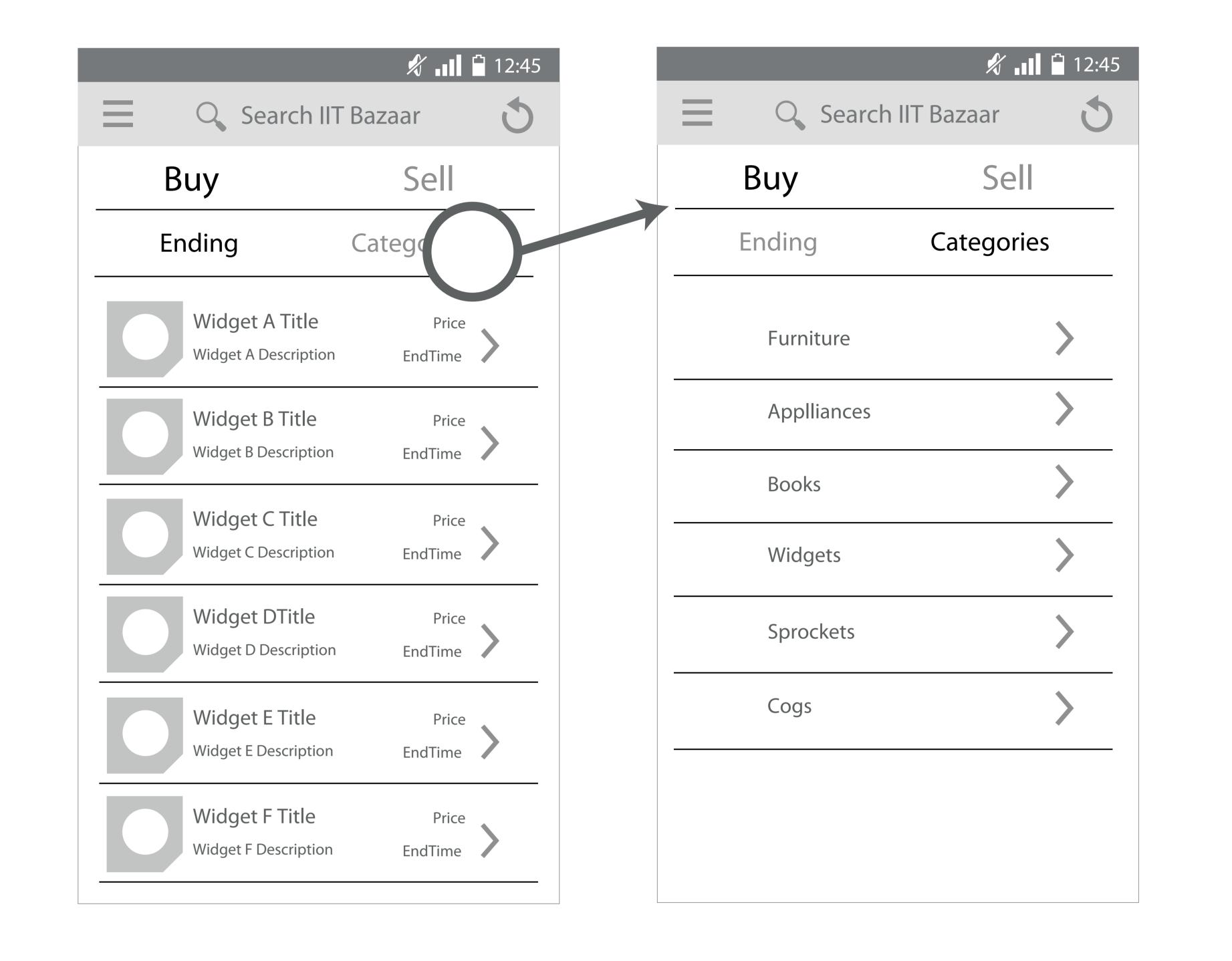
The project requirements and features have been reduced since phase 1 due to the loss of teammates, time, and programming ability of teamr

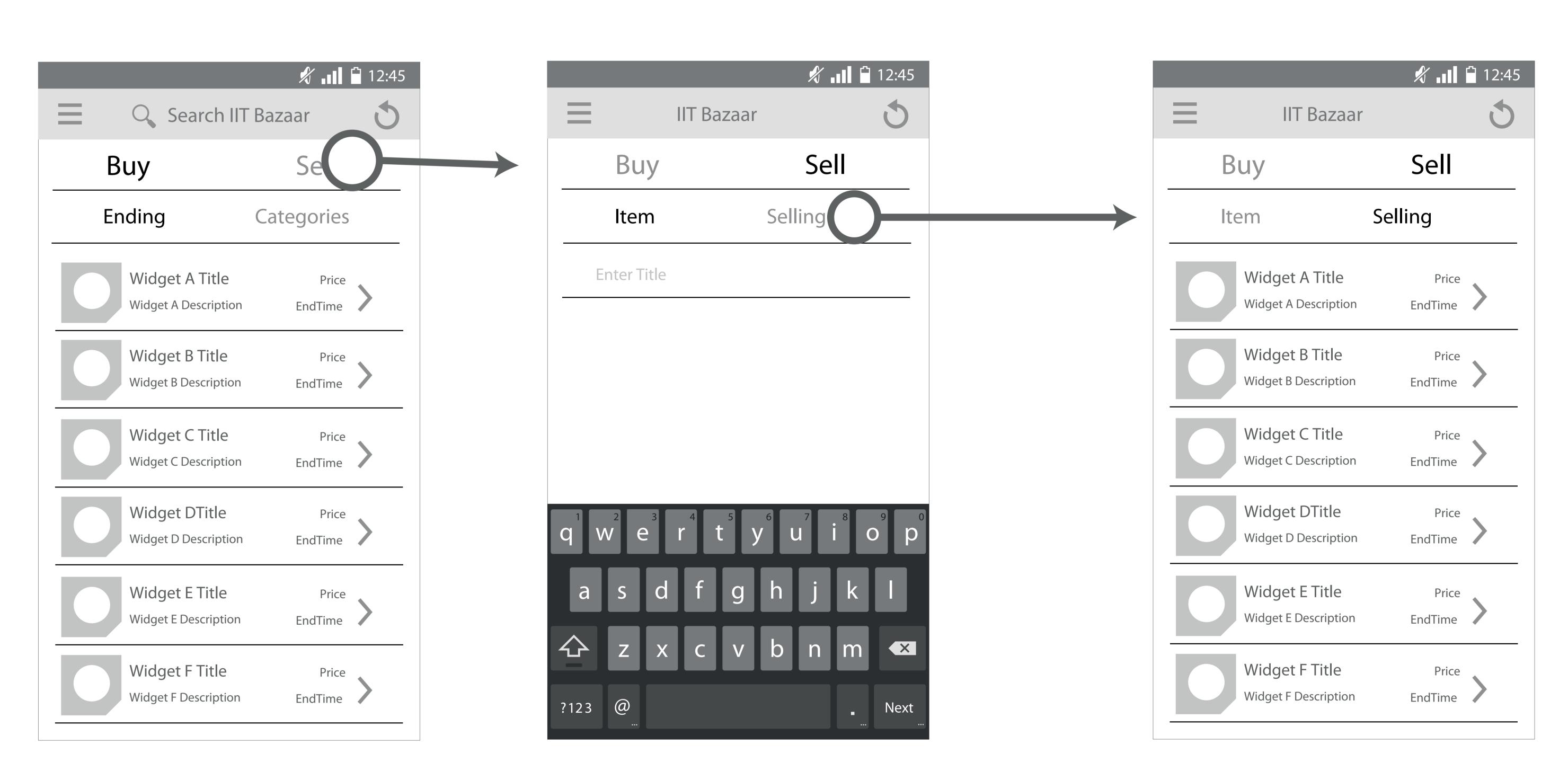
Below are the requirements and feature stories.

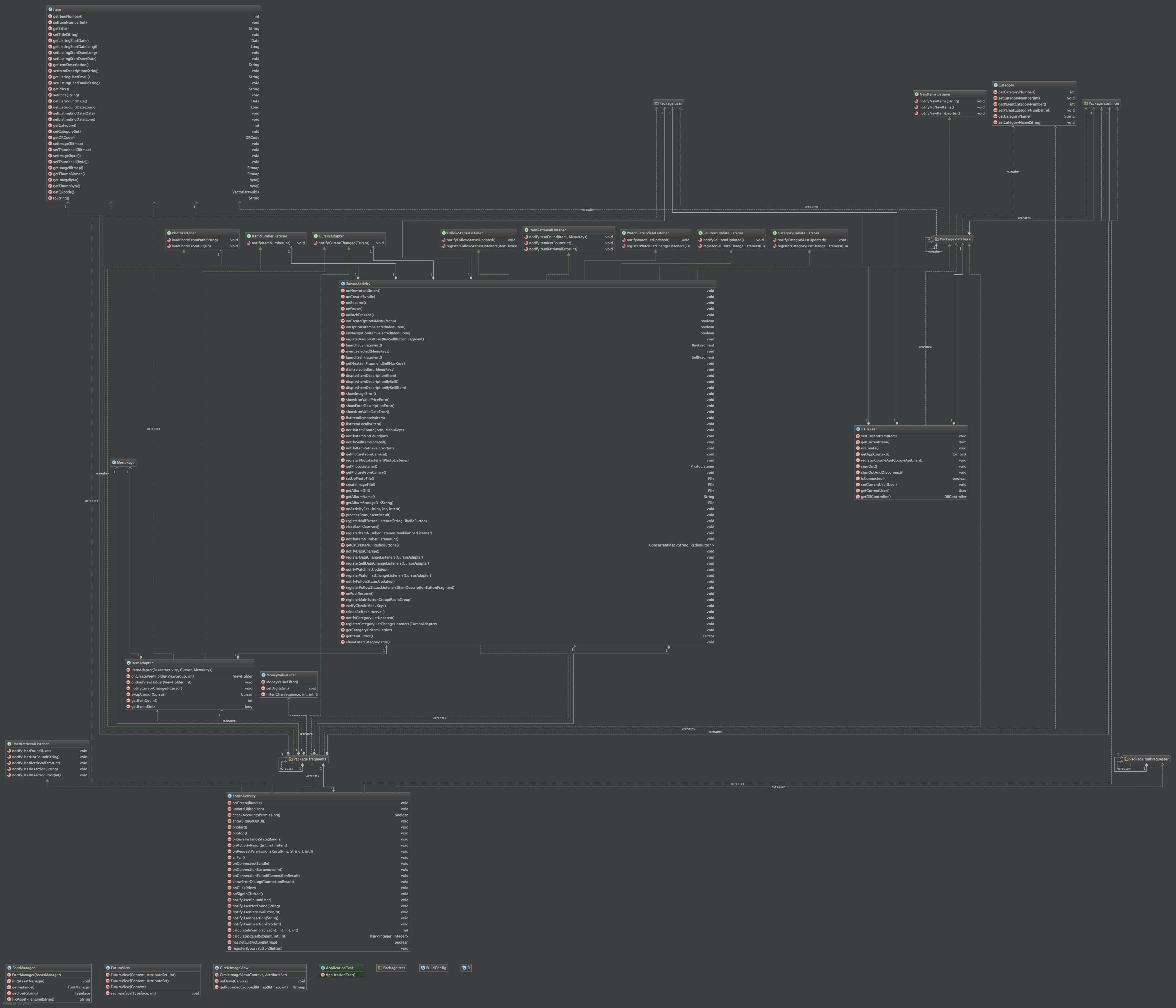
Features	Tracker	Subject	Assignee
188	Feature	Share the item on sale	Janusz Nosek
187	Feature	Create the navigation pane for the app.	Janusz Nosek
128	Feature	Browse through items ending the soonest	Ernesto Garcia
126	Feature	Get the most up to date items	Ernesto Garcia
125	Feature	Be notified of a new item	Janusz Nosek
124	Feature	Take or use a picture of an item to sell	Janusz Nosek
		Browse list of items being sold (user's own	
123	Feature	items)	Swathi Shenoy
122	Feature	Search for items to buy	Swathi Shenoy
116	Feature	List an item for sale	Janusz Nosek
43	Feature	UPC datasource lookup	Janusz Nosek
42	Feature	ISBN lookup data source	Janusz Nosek
39	Feature	Scan and/or create a barcode for an item	Janusz Nosek
38	Feature	Watch an item	Ernesto Garcia
21	Feature	Login as an IIT Student/Staff/Professor	Janusz Nosek
13	Feature	Search for an item	Swathi Shenoy
8	Feature	Create picture removal fragment	Ernesto Garcia
4	Feature	Browse for an item by categories	Swathi Shenoy
2	Feature	Browse an item description and buy	Janusz Nosek

Team 7









#### 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' compile '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.
```

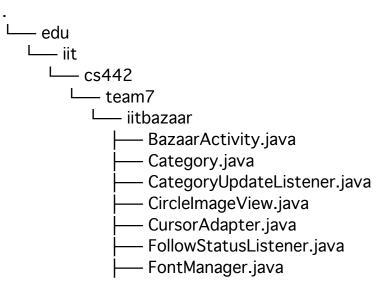
Of special note, google play services identity is used for login as well as the plus api.

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

qrGen is used in conjunction with ZXing.

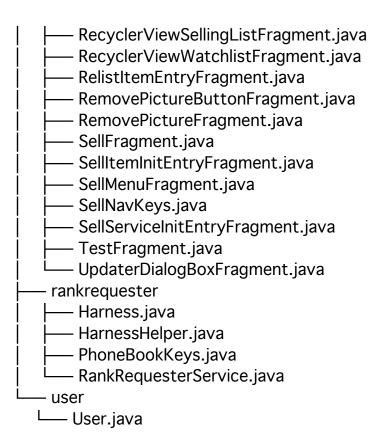
Gson is used for backend processing

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



IITBazaar.java
Item.java
— ItemAdapter.java
ItemNumberListener.java
ItemRetrievalListener.java
— LoginActivity.java
— MenuKeys.java
— MoneyValueFilter.java
NewItemsListener.java
— PhotoListener.java
— SellItemUpdateListener.java
UserRetrievalListener.java
— WatchlistUpdateListener.java
— common
│
│
│
│
├─ DepartmentKeys.java
│
│
│
│
│
PayPalLinkContructor.java
│
CRCodeRasterWriter.java
│ └─ RankResultCode.java
— database
│

— DBController.java
— DBUpdaterService.java
L UnlistItemListener.java
— fragments
— AboutDialogBoxFragment.java
— BuyDialogBoxFragment.java
BuyFragment.java
BuyMenuFragment.java
— BuySellButtonFragment.java
— BypassButtonFragment.java
— BypassButtonFragment_ProdFiller.java
— CategoryAdapter.java
— CategoryFragment.java
— CategorySpinnerAdapter.java
— ContactSellerContactFragment.java
— ContactSellerFeedbackFragment.java
— ContactSellerFragment.java
ContactSellerItemsFragment.java
— ContactSellerNameFragment.java
— ContactSellerPictureFragment.java
— DescriptionRemovalFragment.java
- ItemDescriptionButtonFragment.java
- ItemDescriptionContentFragment.java
ItemDescriptionFragment.java
├── ItemEntryFragment.java
— NotificationsDialogBoxFragment.java
— PictureEntryDialogBoxFragment.java
RecyclerViewCategoryItemListFragment.java



10 directories, 83 files

## 2. Test cases and report

Test	Tracker	Feature	Status	Subject	F
161	Test	2	Closed	Go to the buy screen and click on any item in the buy list. Browse through the description and details of the item and then click on Buy.	S

160	Test	2	Closed	Go to the buy screen and click on any item in the buy list. Check the clarity of the image in the description.	S S
					S
159	Test	2	Closed	Go to the buy screen and click on any item in the buy list. It opens up a detailed description of the item.	S
					S
164	Test	4	Closed	Click on any category and browse through the list of items. It must match the category selected.	
163	Test	4	Closed	Scroll through the list of categories. There must be no repetition of list items.	S S S
163	Toot	4	Classid		
162	Test	4	Closed	Click on the Categories tab. Check for the alignment of the list of categories.	S
158	Test	13	Closed	Enter the search criteria and press Enter key. It returns the list of matching items.	S
157	Test	13	Closed	Click on the search bar and enter the title or description of the desired item. It does a pattern match and returns the matching items as the search criteria is entered.	S S
137	TCSC	15	Closed	returns the matering items as the scaren enteria is entered.	
156	Test	13	Closed	Click on the search icon and enter the description of the item to be searched. It returns the matching items.	S
			0.0000	green and a second and a second product of the second and a second and	
155	Test	13	Closed	Click on the search icon and enter the title of the item to be searched. It returns the matching item/items.	S
				Click on the search bar and enter the description of the item to be searched. It returns the item that	S
154	Test	13	Closed	matches the entered criteria.	S
				Click on the search bar and enter the title of the item to be searched. It returns the item that matches the	S
153	Test	13	Closed	entered criteria.	S

152	Test	13	Closed	Click on the search bar from the Categories screen. We are redirected to the home screen and the search will yield the results.	S S
151	Test	13	Closed	Click on the search bar from the Sell screen. We are redirected to the home screen and the search will yield the results.	S S
135	Test	21	Closed	The user is established as authenticated (IIT student/faculty with valid hawk ID) and has a profile picture set in the account. We proceed with the login and direct the user to the home screen of the page.	S S
134	Test	21	Closed	The user is established as authenticated (IIT student/faculty with valid hawk ID) but does not have a profile picture set in the account. We prompt an error message and do not proceed with the flow.	S S
133	Test	21	Closed	There is no wifi or mobile data connection and the user tries to login to the app. We prompt an error message stating there is no network connection.	S
132	Test	21	Closed	A user who does not belong to IIT tries to login with his/her personal mail ID. Then we prompt an error message stating the app is meant only for IIT students and faculty.	S
131	Test	21	Closed	Student/Faculty tries to login without providing the iit.edu suffix to the mail ID(enters only user name). We prompt user to enter the complete email ID.	S
130	Test	21	Closed	Student/Faculty enters wrong login ID. Then we prompt an error and ask the user to enter correct email ID.	S S

				Login to the app using hawk ID. The back end validates if it is a valid user (student/faculty) and redirects to	S
129	Test	21	Closed	the home page of the app.	S
					S
68	Test	21	Closed	Login screen activities: User logs in and wants to register with his hawk ID to use the app	S
					S
67	Test	21	Closed	Login screen activities: User clicks on IIT Bazaar app and she/he is not connected to the internet	S
66	Test	21	Closed	Login screen activities: User clicks on IIT Bazaar app and she/he is connected to the internet	S
65	T	24	Cl	Laste consequent the last of t	
65	Test	21	Closed	Login screen activities: User enters his/her hawk ID and clicks on Login(invalid user ID)	S
64	Test	21	Closed	Login screen activities: User enters his/her hawk ID and clicks on Login(Valid user ID)	
04	1631	21	Closed	Login screen activities. Oser enters may her hawk to and cheks on Login (valid user to)	S
63	Test	21	Closed	Login screen activities: Go to menu and click on the IIT Bazaar app.	S
			0.0000		S
59	Test	21	Closed	Login Activities for IIT Bazaar app	S
				Click on any item in the sell screen and click on unfollow button. It gets removed from "Following" list	S
178	Test	38	Closed	accessible from left pane.	S
				Click on any item in the buy screen and click on unfollow button. It gets removed from "Following" list	S
177	Test	38	Closed	accessible from left pane.	S
170	Toot	20	Classed	Click on any item in the buy screen and click on Follow button. It gets added to "Following" list accessible	S
176	Test	38	Closed	from left pane.	S
				After the item is listed in the sell screen, click on Follow button. It will be added to the list "Following"	S
175	Test	38	Closed	accessible from the navigation pane.	
					S
183	Test	39	Closed	The app to scan bar code malfunctions. The QR code is not read and an error message pops up.	S

182	Test	39	Closed	The QR code is malformed or unreadable. Then an error message is prompted.	S
					Ť
181	Test	39	Closed	Select Scan item option from the navigation pane. It prompts to install a bar code scanner. After installation, that app scans the QR code for the item.	S S
174	Test	116	Closed	After listing the item check the clarity of the image. It must be sharp and clean.	S S S
173	Test	116	Closed	After the item is listed check the values in the listing. It must be correct and must match the values entered by the user.	S
172	Test	116	Closed	Go to Sell screen and enter the title and in the Sell Item screen try to list the item without adding the description. It throws an error message stating to add description.	S S
171	Test	116	Closed	Go to Sell screen and enter the title and in the Sell Item screen try to list the item by selecting an ending date older than current date. It throws an error message stating to change ending date to a later date.	S S
170	Test	116	Closed	Go to Sell screen and enter the title and in the Sell Item screen try to list the item without adding the price. It throws an error message stating to add price.	S S
169	Test	116	Closed	Go to Sell screen and enter the title and in the Sell Item screen try to list the item without adding the photo. It throws an error message stating to add photo.	S S

168	Test	116	Closed	Go to the sell screen and enter the title of the item and press enter key. It redirects to next screen and then enter the price, date and description along with the photo of the item and press on list item. It must list the item in the sell list.	S S
					S
92	Test	116	Closed	Sell screen activities: Enter all the details correctly in the selling item details screen and click on List Item	S
91	Test	116	Closed	Sell screen activities: In the selling item details screen, select ending date previous to current date and press list item.	S S
90	Test	116	Closed	Sell screen activities: In the selling item details screen, leave the description blank and press list item.	S S
89	Test	116	Closed	Sell screen activities: In the selling item details screen, leave the price blank and press list item	S S S
88	Test	116	Closed	Sell screen activities:In the selling item details screen, leave the image blank and press list item.	S S
87	Test	116	Closed	Sell screen activities: Enter the title of item to be sold and click on Enter.	S S S
150	Test	122	Closed	On the buy items list, enter the description of a non-existing item. It returns no items.	S S S
149	Test	122	Closed	On the buy items list, enter the title of a non-existing item. It returns no items.	S
148	Test	122	Closed	On the list of buy items, enter the description of the item and click on search. It returns the matched item.	S S
147	Test	122	Closed	In the buy screen, click on the spyglass icon and initiate a search on the item. It returns the matched item.	S S

146	Test	122	Closed	From the listing of items in the home screen, click on the search bar and enter the title of the item to be searched. It returns the matched item.	S S
145	Test	123	Closed	Click on any list item and check the item's image. It must be clear and sharp.	S S
144	Test	123	Closed	Click on any list item and check the item description. It must be consistent with the data in the list.	S S
143	Test	123	Closed	Check the clarity of the image of the item in the list view. It must be clear and sharp.	\$ \$ \$ \$ \$
142	Test	123	Closed	Scroll through the list and check the items. They must not be repeating.	S
141	Test	123	Closed	Check the items in the list. They must be the ones bought my the user only.	S S
140	Test	123	Closed	Check for the alignment of the items in the list. It must be in order and streamlined.	S S
180	Test	124	Closed	In the sell item screen, for the "Add photo" option select "Take a photo" option. Camera opens and after clicking the photo, it gets loaded to the screen. It must be clearly visible.	S
179	Test	124	Closed	In the sell item screen, for the "Add photo" option select an image from the gallery. It must be loaded correctly and must be visible clearly.	S S
186	Test	125	Closed	Click on notifications on left pane and disable it. After this add a new item. No notification should appear.	S S
185	Test	125	Closed	After enabling notifications. Add a new item to buy list. It should appear in the notifications bar - "new item added".	S S
184	Test	125	Closed	On the navigation pane, click on notifications and enable them. This provides user with notifications of new items.	S S

167	Test	126	Closed	Browse through the buy list and examine the list items.It must be aligned correctly.	S S
166	Test	126	Closed	Browse through the buy list and examine the end date. It must be sorted according to the end date in ascending order.	S S
165	Test	126	Closed	Browse through the buy list and examine the end date. It must be beyond the current date.	S S
139	Test	128	Closed	Add more than 10 or 15 items to the list and check the alignment. The list items must not overlap with each other.	S S
138	Test	128	Closed	Check the end date and the format of it. It must not be malformed.	S
137	Test	128	Closed	Check for the alignment of the items in the list. It must be in order and streamlined.	S S
136	Test	128	Closed	Check if the list is sorted in order containing items with latest end date.	S S
86	Test	128	Closed	Buy screen activities: Check the overall layout of the page .	S S S
85	Test	128	Closed	Buy screen activities	S S S
83	Test	128	Closed	Buy screen activities:Check the alignment and text of item name in the listing	S S S
81	Test	128	Closed	Buy screen activities	S S S
80	Test	128	Closed	Buy screen activities:User logs in and it is successful	S S S
79	Test	187	Closed	Side menu and navigation: Go to Categories screen and click on Buy tab on the top	S S S
78	Test	187	Closed	Side menu and navigation : Go to Categories screen and click on Sell tab on the top	S S S
77	Test	187	Closed	Side menu and navigation: Go to Sell screen and click on Selling Item tab on the top	S

76	Test	187	Closed	Side menu and navigation : Go to Sell screen and click on Buy tab on the top	S
70	1000	107	Closed	Side mena and navigation . Go to ben serven and enex on Bay tab on the top	
75	Test	187	Closed	Side menu and navigation: Go to Buy screen and Click on Category tab on the top	S   S   S
74	Test	187	Closed	Side menu and navigation: Go to Buy screen and Click on Ending tab on the top	S
					S S
73	Test	187	Closed	Side menu and navigation: Go to Buy screen and Click on Sell tab on the top	S S
72	Test	187	Closed	Side menu and navigation: Click on the Disconnect option in the side menu	S S
71	Tost	107	Closed	Side many and navigation. Click on the Logarit entian in the side many	
71	Test	187	Closed	Side menu and navigation: Click on the Logout option in the side menu	S S
70	Test	187	Closed	Side menu and navigation: Click on Home option in the side menu	
					S S
69	Test	187	Closed	Side menu and navigation: Login to the app and click on the hamburger icon	S
127	Toot	100	Classed	Chara an itema After adding as busy sing the items about it using any mailing as massasing and	J
127	Test	188	Closed	Share an item: After adding or browsing the item, share it using any mailing or messaging app.	<u>N</u> S
84	Test		Closed	Buy screen activities	
					S S
82	Test		Closed	Buy screen activities:Check the listing data	S
46	Test		Closed	Test item switching	J
40	1631		Closed	1 cot item switching	$\frac{\Gamma}{\Gamma}$
45	Test		Closed	Test horizontal/vertical orientation	<u></u>
4.4	Tost		Closed	Tort basis google login	J
44	Test		Closed	Test basic google login	

### 3. Use cases from end user point of view

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 security o community.

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.

Also, users can scan listings from the real world using the QR code scanner to view on the handheld. The QR codes can be retrieved from the applica PNGs by simply clicking the Share button. This will not only attach the picture and description, but also the png of the QR code for sharing and posti

Purchases can be facilitated by email for cash transaction or the paypal system can be used.

See additional use case diagram on next page

# UML Use Case —IIT Bazaar

