

1. AddNewInventoryItem

Participating Actors	Owner, System
Goal	Successfully add new inventory item.
Trigger	Owner chooses add item option.
Precondition	Owner has an item they would like to add.
Postcondition	On success, item and properties are added into inventory.

Basic Flow:	
1. System prompts user for items properties.	2. Owner fills in form and confirms details.
3. System adds item and properties to inventory, and uploads Shared items. System returns user to inventory screen.	

Exceptions:	
2.1 Owner tries confirming details without filling in all required information.	2.1.1 System prompts Owner, reminding of required information. 2.1.2 Owner may choose to enter correct information or cancel entry.
2.2 Photo size is too large	2.2.1 System prompts Owner, informing them that they have exceeded that maximum allowed photo size 2.2.2 Owner may choose different photo.
3.1 Network is not available to upload item.	3.1.1 Server informs Owner that item will be uploaded when network is available. Item is stored locally.

Qualities	If network is not available, system will store item locally, and push it to the network when it's available.
Constraints	-Photos must be less than 65536 bytes -All entries require a name, category, quantity,quality,and permission.
Includes	

Extends	ViewInventory
Related Artifacts	US01.01.01, US01.03.01, US01.06.01, US01.07.01, US06.04.01, US06.06.01, US09.01.01
Notes	
Open Issues	

2. EditInventoryItem

Participating Actors	Owner, System
Goal	Successfully edit or delete inventory item.
Trigger	Owner chooses edit item option.
Precondition	Owner has an item they would like to edit.
Postcondition	On success, item properties are updated or item is removed.

Basic Flow:	
1. System displays item information to Owner in an editable form.	2. Owner may edit specific fields, or delete entire item. Confirms choice(s).
3.1 On delete choice, System prompts Owner for Confirmation. 3.2 System updates item properties.	4.1 Owner confirms delete.
5. System returns Owner to inventory screen.	

Exceptions:	
2.1 Owner deletes required field without re-filling it.	2.1.1 System prompts Owner, reminding of required information. 2.1.2 Owner may choose to enter correct information or cancel edit. On Cancel, Previous value is restored.
2.2 New Photo size is too large	2.2.1 System prompts Owner, informing them that they have exceeded that maximum allowed photo size 2.2.2 Owner may choose different photo.
3.1 Network is not available to upload changes.	3.1.1 Server informs Owner that changes will be uploaded when network is available. Changes are stored locally.

Qualities	If network is not available, system will store changes locally, and push it to the network when it's available.
Constraints	-Photos must be less than 65536 bytes -All entries require a name, category, quantity, quality, and permission.
Includes	
Extends	ViewInventory
Related Artifacts	US01.01.01, US01.03.01, US01.04.01, US01.05.01, US01.06.01, US01.07.01, US06.04.01, US06.06.01, US09.01.01
Notes	
Open Issues	

3. ViewInventory

Participating Actors	Owner, System
Goal	Successfully view inventory.
Trigger	Owner navigates to inventory.
Precondition	Owner wants to view their inventory items.
Postcondition	On success, owner navigates to inventory or item in inventory.

Basic Flow:	
1. System displays home screen.	2. Owner selects inventory from main menu.
3. Systems displays inventory screen.	4. Owner can browse inventory and select item to view.

Exceptions:	
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Qualities	
Constraints	
Includes	AddInventoryItem, EditInventoryItem
Extends	
Related Artifacts	US01.02.01, US01.03.01
Notes	
Open Issues	

4. AddAccount

Participating Actors	User, System
Goal	User can create a user account
Trigger	User chooses account creation from login screen.
Precondition	User wishes to create a new account
Postcondition	System stores User's profile and account information.

Basic Flow:	
1. User chooses new account from login screen.	2. System prompts User to create a new profile.
3. User enters required information	4. System stores User profile, and forwards user to Home Screen where part of their profile is displayed.

Exceptions:	
3.1 User account already exists	3.1.1 System informs User that the username they have chosen already exists. 3.1.2 User may choose new username or return to the login screen.
3.2 User has not supplied all required information	3.2.1 System prompts User to fill in required information. 3.2.2 User may fill in required information or cancel account set up.
3.3 Network is not available on profile creation.	3.3.1 System informs User that they need to connect to a network in order to create account.

Qualities	User's account will be unique. User will be able to edit non-unique information at any time. User will be able to choose in their profile whether or not to download images.
Constraints	-User must be connected to network for initial account creation to ensure a unique username. -Profile photos must be less than 65536 bytes. -User account must include username and email.
Includes	EditProfile
Extends	
Related Artifacts	US02.04.01,US10.01.01
Notes	
Open Issues	

5. EditFriendList

Participating Actors	Owner, System
Goal	Successfully add or remove a friend.
Trigger	Owner chooses edit friends option.
Precondition	Owner wants to add or remove a friend from their friends list. and Owner's in "Friends" activity.
Postcondition	On success, owner will have added or removed a friend from their friends list.

Basic Flow:	
1. System displays friends list.	2.1 Owner selects add friend 2.2 Owner selects friend and then remove.
3.1 System prompts Owner for a username. 3.2 On success, Owner and friend are no longer on each other's friends lists.	4.1 User enters a username.
5.1 System adds Owner and friend to each other's friends lists.	

Exceptions:	
5.1 Owner enters username that does not exist.	5.1.1 System informs Owner that user does not exists. 5.1.2 System prompts Owner for another username.

Qualities	
Constraints	
Includes	
Extends	
Related Artifacts	US02.01.02, US01.02.01, US02.03.01
Notes	
Open Issues	

6. BrowseFriendsInventory

Participating Actors	Borrower, System, Friends
Goal	Browse or search the inventory of friends
Trigger	Borrower is on a friend's inventory page.
Precondition	Borrower wants to browse or search the inventory of friends. Only Items that are public will be viewable.
Postcondition	On success, Borrower views their friends inventory.

Basic Flow:	
1. System prompts Borrower for text query or to browse by category.	2.1 Borrower enters text query 2.2 Borrower selects category
3.1 System displays items from friends inventory that match text query. 3.2 Systems displays items from friends inventory that match category.	

Exceptions:	
3 Item cannot be found.	3 System tells user no matches are found.

Qualities	
Constraints	
Includes	
Extends	
Related Artifacts	US03.01.01, US03.01.02, US03.01.03, US03.02.01
Notes	
Open Issues	

7. ViewInventoryItem

Participating Actors	Borrower, System, Friends
Goal	To successfully view an Inventory Item
Trigger	The Owner or Borrower selects an Inventory Item
Precondition	The Owner or Borrower is viewing an Inventory List and wishes to view a particular Item
Postcondition	The Owner or Borrower is taken to the Item's informational screen

Basic Flow:	
1. Owner or Borrower selects Item	2. The System displays the informational screen of the Item

Exceptions:	
2.1 The Item has been deleted by the Owner	2.1 The System displays a message stating that the Item does not exist

2.2 The Item is private	2.2 The System displays a message stating that the Item is private
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Qualities	
Constraints	For successful viewing of the Item, the Item must exist and be public at the time the Owner or Borrower selects the item.
Includes	
Extends	
Related Artifacts	US01.03.01
Notes	
Open Issues	

8. ViewInventoryItemPicture

Participating Actors	Borrower, System, Friends
Goal	View pictures of the Inventory Item
Trigger	Owner or Borrower clicks to view pictures of the Item
Precondition	Owner or Borrower is in the ViewInventoryItem screen
Postcondition	The system displays a screen with the pictures of the Item is displayed

Basic Flow:	
1. Owner or Borrower clicks to view pictures of the Item	

Exceptions:	
1. Picture has been deleted	1. The system displays a message stating that the picture has been deleted

Qualities	
Constraints	
Includes	
Extends	ViewInventoryItem
Related Artifacts	US06.02.01
Notes	
Open Issues	

9. Login

Participating Actors	User, System
Goal	User successfully logs in to his/her account
Trigger	Starting the app or logging out of an existing session
Precondition	No User is signed in on local session
Postcondition	The User is signed in, where all account preferences are applied

Basic Flow:	
1. The User starts a new session in the app either by starting the app or logging out and then wishing to log in	2. The User enters his/her username and password
3. The User clicks Log In	4. System loads the User's home screen of the app

Exceptions:	
3. The User enters incorrect username and password combination	3. The System displays a message stating that the login information is incorrect

Qualities	
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Constraints	
Includes	
Extends	
Related Artifacts	
Notes	
Open Issues	

10. ViewProfile

Participating Actors	User, System
Goal	Be able to see personal and other's profile
Trigger	User clicks photo of a person entry
Precondition	User wants to view their profile.
Postcondition	On success, a profile page will pop up to show to the user.

Basic Flow:	
	1. User clicks a user's photo
2. System prompts a profile page for the user.	3. User can see the city, cell, age, email, photo, etc. in the profile page.

Exceptions:	
	1.1.1 User tries to clicks photo of a non friend entry while offline.
1.1.2 System prompts Owner, reminding of disabled network connection	1.1.3 User may try to get a network connection
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Qualities	Network is required only when tries to see non friend user's profile.
Constraints	
Includes	View Friends
Extends	
Related Artifacts	US02.05.01
Notes	
Open Issues	

11. EditOwner'sProfile

Participating Actors	Owner, System
Goal	Be able to edit personal profile
Trigger	Owner clicks his or her own photo
Precondition	Owner has opened the main menu.
Postcondition	On success, Owner's profile will be updated

Basic Flow:	
	1. Owner clicks Owner's photo
2. System prompts owner's profile page for the Owner.	3. Owner makes changes in fields of interest and click update.(city, cell, age, comments, ect.)
4. System close the profile page and return owner to the home screen.	

Exceptions:	
	3.1.1 Owner changes his/her profile photo with an oversized photo.
3.1.2 System warns the owner to discard the photo	3.1.3 Owner chooses another photo within size limit and update Or Owner chooses to not update profile photo.
3.1.4 System stops complain.	

Qualities	
Constraints	-Photo size limit 65536 bytes
Includes	
Extends	Owner view his/her own profile
Related Artifacts	US10.02.01
Notes	
Open Issues	

12. ViewOwner'sTrade

Participating Actors	Owner, System
Goal	Be able to view current and history trades
Trigger	Owner clicks Trades button in the main menu
Precondition	Owner wants to view their trades.
Postcondition	On success, Owner will be able to view his/her trades(current/past)

Basic Flow:	
	1. Owner clicks Trades
2. System prompts owner's a trades page showing all the trades owner has.	3. Owner browse trades by category(choose past or current)
	4. Owner selects a specific trade that he/she wants to see detail
5. System prompts a trade detail popup window to the owner	6. Owner can view the trade in detail

Exceptions:	

Qualities	
Constraints	
Includes	
Extends	
Related Artifacts	US04.08.01 US04.09.01
Notes	
Open Issues	

13. Edit/Delete owner's pending trade

Participating Actors	Owner, borrower, System
Goal	Be able to edit/delete pending trades
Trigger	Owner clicks Pending in the main menu.
Precondition	Owner has opened the main menu.
Postcondition	On success, Owner will be able to edit or delete his/her pending trades

Basic Flow:	
	1. Owner clicks Pending
2. System prompts owner's a Pending page showing all the pending trades owner has.	3. Owner browse pending trades and decide which one he/she wants to edit or delete
4. System prompts a popup window for details of the pending trade to the owner	5. Owner can edit the pending trade or choose to delete the trade
6. System records the updated trade information or remove the trade from the pending entries if the user clicks delete. System sends information to borrower.	7. Borrower gets pending info that the trade has been updated or canceled by the owner.

Exceptions:	
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6.1.1 System fails to update or delete the trade information on the server due to network issue. So borrower does not receive updates immediately.	6.1.2 Owner eventually gets a network connection.
6.1.3 System sends the updates or deletes data immediately afterwards.	

Qualities	
Constraints	Need network connection.
Includes	
Extends	View owner's trades
Related Artifacts	US04.05.01 US04.06.01
Notes	
Open Issues	

14. ViewFriends

Participating Actors	Owner, System
Goal	Be able to view owner's friend list
Trigger	Owner clicks Friends in the main menu.
Precondition	Owner has opened the main menu.
Postcondition	On success, Owner will be able to view all friends of his/her.

Basic Flow:	
	1. Owner clicks Friends
2. System prompts owner's a Friends page showing all the friends of owner	3. Owner browse the friends list shown in the view.

Exceptions:	
	3.1.1 Owner has no friend in the list to browse

Qualities	Good
Constraints	None
Includes	
Extends	
Related Artifacts	
Notes	
Open Issues	

15. BorrowerProposesTradewithOwner

Participating Actors	Owner, Borrower, System
Goal	Borrower being able to open and complete a trade with Owner
Trigger	Borrower clicks trade in the item view
Precondition	Borrower under item view and wants to open a trade with the owner for that item.
Postcondition	On success, a trade between borrower and owner can be completed

Basic Flow:	
	1. Borrower clicks trade in the item view
2. System prompts Borrower's a trade detail popup window with information needed to be edited by the borrower.	3. Borrower enters information (what to trade for the item, quantity, comments etc)and confirm.
4. System saves the record and upload to the server and send pending trade info to the owner	5. Owner gets online and receives the pending trade.Decide accept or reject 5.1 Owner accept the trade request 5.2 Owner reject the trade request 5.3 Owner starts a counter trade request with additional information(select item from

	borrower he/she wants for trade; comments) entered and sends to borrower.
6 System saves the record and upload to the server and send pending info to the borrower 6.1 Trade succeed. System automatically send emails about all the information of the trade to borrower and owner 6.2 Trade failed. System send pending info to borrower, noticing borrower trade is not succeed 6.3 Counter trade starts. System send pending info to borrower.	7.1 Borrower and Owner both receive email that confirming trade succeed and information regarding the trade detail 7.2 Borrower receives pending info that trade failed 7.3 Borrower receives pending info about counter trades requested by the owner. 7.3.1 Borrower accepts the counter trades request 7.3.2 Borrower rejects the counter trades request
8.3.1 Counter trades succeed. System automatically send emails about all the information of the trade to borrower and owner 8.3.2 Counter trades failed. System send pending info to the owner that the counter trade is failed	9.3.2 Owner get pending info telling him/her the counter trades failed.

Exceptions:	
4.1.1 System can't send pending info to owner because borrower didn't get an internet connection	4.1.2 Borrower will eventually get online
4.1.3 System will send the info to owner as long as borrower gets online otherwise never	
	5.1.1.1 Owner fails to accept the request because borrower changed his mind that he canceled the trade before owner clicks accept
5.1.1.2 System warns the owner and automatically close the trade	
	5.3.1.1 Owner enters a good he wants for counter trades but borrower does not have that good
5.3.1.2 System warns the owner	5.3.1.3 Owner choose a item that borrower has or giveup the counter trades

Qualities	
Constraints	Intermediate Both owner and borrower must have good internet connection

Includes	
Extends	View Inventory Items
Related Artifacts	US04.01.01 US04.02.01 US04.03.01 US04.04.01 US04.07.01 US06.04.01 US09.02.01
Notes	
Open Issues	

16. Owner Configures Image Preferences

Participating Actors	Owner, System
Goal	Be able to enable/disable image downloading
Trigger	Owner clicks the setting icon in the main menu
Precondition	Owner has opened the main menu.
Postcondition	On success, Owner will be able to enable or disable image downloading option

Basic Flow:	
	1. Owner clicks setting icon
2. System prompts owner's a configuration page including image downloading option	3. Owner choose enable or disable for the option and choose(click) update.
4. System saves owner's updated setting and enable or disable image downloading of the system	

Exceptions:	
None	

Qualities	Good
Constraints	
Includes	

Extends	
Related Artifacts	US06.05.01 US10.01.01
Notes	
Open Issues	

17. OwnerSearchesForBorrower

Participating Actors	Owner, Borrower, System
Goal	Owner successfully finds link to Borrower's profile
Trigger	Owner clicks Find a Person either on his/her own profile or in the home screen of the app
Precondition	
Postcondition	

Basic Flow:	
1. The Owner clicks Find a Person either on his/her own profile or in the home screen of the app	2. The System displays a search bar that prompts the Owner to enter the name or username of the person for whom he/she is searching (the Owner specifies whether the search is being done by name or by username)
3. A successful search returns all Users who match the name or username criteria specified by the Owner	

Exceptions:	
1. If the search is unsuccessful--that is, no Users are returned from the search--then the System displays a message stating that no results were found	

Qualities	
Constraints	

Includes	
Extends	
Related Artifacts	US02.01.01
Notes	
Open Issues	

18. OwnerSelectsBorrowerFromSearch

Participating Actors	Owner, Borrower, System
Goal	Owner selects Borrower from list of Users returned from Find a Person search, and the system navigates to this User's profile
Trigger	Owner clicks on User's profile
Precondition	Successful OwnerSearchesForBorrower, which displays a link to at least one User
Postcondition	Owner views the User's profile

Basic Flow:	
1. Owner selects displayed profile of User	2. The System navigates to this User's profile

Exceptions:	

Qualities	
Constraints	
Includes	
Extends	OwnerSearchesForBorrower
Related Artifacts	US02.01.01

Notes	
Open Issues	

19. OwnerSearchesUniversalInventory

Participating Actors	Owner, System
Goal	Owner performs a search in the universal inventory for a particular Item
Trigger	On the home screen of the app, the Owner selects the option to perform a universal inventory search
Precondition	
Postcondition	

Basic Flow:	
1. On the home screen of the app, the Owner selects the option to perform a universal inventory search	2. The System displays a search screen with optional categories to help narrow the search
3. A successful search returns all relevant Items	

Exceptions:	
3. If the search is unsuccessful--that is, no Items are returned--then the system displays a message stating that no results were found	

Qualities	
Constraints	
Includes	
Extends	
Related Artifacts	
Notes	To view an Item, see ViewInventoryItem
Open Issues	

20. OwnerSearchesPersonalInventory

Participating Actors	Owner, System
Goal	Owner performs a search in his/her personal inventory for a particular Item
Trigger	Owner clicks to view his/her own inventory Items in his/her profile
Precondition	
Postcondition	

Basic Flow:	
1. Owner clicks to view his/her own inventory Items in his/her profile	2. The System displays a list of all inventory Items for the Owner

Exceptions:	
2. If the Owner has no inventory Items, the System will display a message stating that there are no Items	

Qualities	
Constraints	
Includes	
Extends	
Related Artifacts	
Notes	To view an Item, see ViewInventoryItem
Open Issues	