

## Use case 1

- Actor: Hyeon, a graduating student of Grinnell College
- Goal: Sell things that he does not require anymore after graduation (or even giveaway)
- Trigger: Hyeon initiates the app
- Pre-conditions:
  - Hyeon is registered and logged in
  - Hyeon has a single item to sell/giveaway
  - Hyeon took a photo of his product
- Post-conditions:
  - Hyeon has added an item on the sell list with its photo and description
  - He's contacted the buyer successfully and potentially sold the item
- Flow
  1. go to add item (+ with a circle around sign would be great on the bar below)
  2. add photos and description of the item
  3. Hyeon decides the price range at which he is willing to sell
  4. whenever someone contacts regarding the item, contact back and schedule time to meet for the item
  5. Hyeon sells the item
- Alternative Flow A (Recoverable, eventually buyer does not buy)
  1. Hyeon meets up with the buyer
  2. The buyer decides not to buy the product
  3. Hyeon looks for another person to buy the product
  4. Hyeon finds another person who wants to buy the product
  5. Hyeon sells the product
- Alternative Flow B (Non-recoverable, invalid code while registration)
  1. Hyeon tries to register for the app to sell his stuffs
  2. He inputs an invalid code for Grinnell email code
  3. The app notifies him that the code is invalid

## Use case 2

- Actor: Muhammad is a rising senior and is moving off campus soon
- Goal: He needs to find stuff for his room (i.e. chair, bean bag, monitor) but doesn't know exactly what he wants yet.
- Trigger: Muhammad initiates the app and navigates to the category section
- Preconditions:
  - Muhammad has a registered account
  - Sellers have listed items that they're planning to place in the dorm lounges at the end of the semester
- Postconditions:
  - Muhammad has browsed through categories
  - he's added some things to his favorites/cart list
  - he contacted a seller by pressing "get now"
- Flow
  1. Muhammad opens the app and navigates to the home section where he's presented with a list of items

2. He taps on the clothes category that he's interested in
  3. He taps on the item (a clothing hanger) he is interested in buying which then shows him the details of the item, price, description, photos, and seller information
  4. He decides to buy the item after a lot of contemplation and clicks "Request Purchase"
  5. The seller reaches out to him through his preferred method of communication and he sets up a meet with the seller
- Alternative Flow A (Recoverable - Seller Unresponsive)
    1. Muhammad opens the app, navigates to the category sections and finds a clothing hanger he really likes so he taps the item to view its details
    2. He likes the price and so taps the "Request purchase" button which has the seller's email
    3. After a few days, Muhammad hasn't received any direct communication from the seller after the notification was sent to them
    4. Muhammad decides to email the seller who just forgot to respond
    5. Muhammad finally buys the item
  - Alternative Flow B (non-recoverable - invalid contact info)
    1. Muhammad opens the app, navigates to clothes, finds a clothing hanger he likes
    2. He views the hanger's details and decides to tap "Request Purchase"
    3. After a few days, Muhammad hasn't received any direct communication from the seller. Muhammad emails him but gets no response
    4. The seller hasn't put down any other contact info so cannot contact them another way
    5. Muhammad can't buy the item cause the seller isn't responding
    6. The app should ideally have a push notification feature which reminds the seller about this purchase.

### Use case 3

- Actor: Anya is a sophomore and she just heard about this amazing new app called PioneerMart
- Goal: needs to get her account set up so that she can start selling stuff
- Trigger: Anya initiates the app after downloading
- Preconditions:
  - She needs valid contact information and needs to be a Grinnell student
- Postconditions:
  - She has a registered account and is able to access the application
- Flow
  1. She first navigates to the page where she's prompted to enter her email and password to sign in
  2. She realizes SHE HASN'T CREATED AN ACCOUNT!!! So she clicks "create an account"
  3. She first navigates to the page where she's prompted to enter her Grinnell email, create a password, and agree to the terms & conditions
  4. She enters her email and creates a strong password

5. She retypes the password for verification and enters her preferred contact and payment methods
  6. She clicks on terms & conditions and then agrees to the terms and conditions
  7. She clicks "Send verification code"
  8. The app verifies her email by sending her a 4 digit code on outlook
  9. She gets a message on the app saying email verified with a button to go back to login page
  10. She navigates to the login page, enters her email and password and starts shopping!
- Alternative Flow A (Recoverable - invalid email)
    1. She first navigates to the page where she's prompted to enter her email and password to sign in
    2. She realizes SHE HASN'T CREATED AN ACCOUNT!!! So she clicks "create an account"
    3. She first navigates to the page where she's prompted to enter her Grinnell email, create a password, and agree to the terms & conditions
    4. She enters her email and clicks to password box to create a password but she has unknowingly entered a typo in her email address writing "@cornell.edu"
    5. The app highlights this information in red and gives her an error message saying this email is invalid
    6. Anya enters the correct email and proceeds to set up her account with the steps mentioned in original flow
  - Alternative Flow B (non-recoverable - unacceptable terms & conditions)
    1. She first navigates to the page where she's prompted to enter her email and password to sign in
    2. She realizes SHE HASN'T CREATED AN ACCOUNT!!! So she clicks "create an account"
    3. She first navigates to the page where she's prompted to enter her Grinnell email, create a password, and agree to the terms & conditions
    4. She enters her email and creates a strong password
    5. She retypes the password for verification and enters her preferred contact and payment methods
    6. She clicks on terms & conditions, spends 10 minutes reading and realizes that she doesn't like what she reads.
    7. She closes the app and deletes it because she doesn't have any use for it anymore
    8. Takeaway: The app should have reasonable terms and conditions

#### Use Case 4

- ❖ Actor: Alan, a freshman of Grinnell College, who need buy daily essentials
- ❖ Goal: Alan need to purchase daily essentials for upcoming semester
- ❖ Trigger: Alan initiates the app and navigates to the category section
- ❖ Preconditions:
  - Alan has a registered account
  - Sellers have listed daily essentials
- ❖ Postconditions:

- Alan successfully purchases essential items for the semester
- ❖ Flow:
  - Alan opens the app
  - He taps on the clothing category he's interested in
  - He taps on the item he is interested in buying which then shows him the details of the item, price, description, photos, and seller information
  - He decides to buy the item after a lot of contemplation and clicks "contact seller"
  - The seller reaches out to him through his preferred method of communication and he sets up a meet with the seller
- ❖ Alternative Flow:
  - A: If the selected item is unavailable, Alan searches for an alternative
  - B: If the seller is unresponsive, Alan is unable to complete the purchase

## Use Case 5

- ❖ Actor: Tim, a graduating student
- ❖ Goal: Clear the purchase history on Pioneer Mart
- ❖ Trigger: Tim will not use pioneer Mart any more and want to clear his Purchase history
- ❖ Preconditions:
  - Tim has a registered account on Pioneer Mart
- ❖ Postconditions:
  - Tim successfully deletes his purchase history
- ❖ Flow:
  - Tim open the Pioneer Mart
  - He clicks on my profile at the bottom -right corner
  - He scrolls down the page and find Clear History
  - He click on Clear History
  - The app popup window informs Tim that his purchase history is successfully deleted
  - He click on Done
  - The app lead him back to his user profile page
  - He click on logout
  - The app will ask if he want to Log out or Cancel
  - He click on log out and he successfully logout
- ❖ Alternative Flows:
  - A: Tim misclicks on edit profile, he has to click on " back " to return to the user profile page and clear the history
  - B: Tim's mobile goes wrong and could no longer access the app.