

1. Problem Statement

Most college students at some point will need to buy and sell various goods, items that could range from textbooks and school supplies to clothes to used furniture to fill their home. Given the financial state many students find themselves in, it may not be obvious or convenient to find these things at an affordable price. Our app is intended to directly connect students with others who want to sell their own items within the same local area.

College students can also require many different services. Some may include help with moving, watching a pet during class, or tutoring help. Our app can connect them with people offering those services.

On the other hand, some college students or local residents may have items they do not want/need and wish to sell them. These could include similar items listed before such as used textbooks, clothes, or that extra couch they don't want to move home. In addition, students/residents may have many specialties they can offer as a service. A college student looking to bring in some extra cash can offer to walk someone else's dog, another could offer calculus tutoring, the list goes on.

2. Technical Solution

Create an app where students can sell and buy items, and also provide and find services. The student is also able to narrow down on a location.

Scenario 1:

Jane is graduating from college and has lots of extra furniture and items that she doesn't want in her college dorm. She also needs some help to move out of her place. She uses the commerce/service app to ask new incoming freshmen if they would be interested in buying her used furniture and look up some services for moving out some of her items.

Scenario 2:

Jane is studying for finals week and is too busy to run her daily errands. She goes onto the commerce/service app to get help with buying her food, doing her daily house chores, and taking care of her pet so that she can focus on her studies.

3. Glossary

Location: College campus or city/town

Item: A physical item/good that has the ability to be listed for sale, sold, and bought

Service: A service that has the ability to be listed for sale, sold, and bought

Listing: Contains an item or service that can be bought/sold

Anyone: A user of the app, can view listings

User: Signed in user, can buy a listing or sell their own

Has a username, email address, password, and optional location.

Admin: Administrator, can do everything a User can do with special privileges.

4. High Level Requirement

- Create a listing (admin, user)
- Delete a listing (admin, user)
- View a listing (anyone)
- Create an item (admin, user)
- Edit an item(admin, user)
- Delete an item(admin, user)
- View an item (admin, user)
- Create a service(admin, user)
- Edit a service(admin, user)
- Delete a service(admin, user)
- View a service (admin, user)
- Create a user profile (anyone)
- View a user profile(anyone)
- Update a user profile(admin, user)
- Delete a user profile(admin, user)

5. User Stories / Scenarios

Create an item:

Create an item that can be listed

Suggested data:

Information about the item

Description, photo, price, date listed, location of item

Preconditions:

User must be signed in

Postcondition:

Item is created and CAN be listed to be viewed and bought by others

Create a service:

List a service that authenticated users can view and buy

Suggested data:

Information about service

Description, photo(?), price of service (Either a sum price OR price per hour), date listed, location of seller

Preconditions: User must be signed in

Postcondition: Service is created and CAN be listed to be viewed and bought by others

Edit an item:

Edit an existing item listing

Suggested data:

Description, photo(?), price of service (Either a sum price OR price per hour), date listed, location of seller

Precondition:

The price, photo, location can be changed

Date listed changes to the date of edit

Cannot change what service is being listed. If a user wants to list a new service instead, they can delete this service and create a new service listing.

User must be signed in to same account of original posting

Postcondition:

Updating an Item is listed and can be viewed and bought by others

Edit a service:

Edit an existing service listing

Suggested data:

Information about the service

Description, photo, price, date listed, location of item

Precondition:

The price, photo, location can be changed

Date listed changes to the date of edit

User must be signed in to same account of original posting

Postcondition:

Updating an Item is listed and can be viewed and bought by others

Delete an item/service:

Delete an existing item/service listing

Precondition:

Listing exists

User must be signed in to same account of original posting

Postcondition: Listing no longer exists

Create a user profile:

Initial stats for sales, purchases, username, about, photo, location, date created

Precondition: Sign up with email

Postcondition: Profile can be viewed by others

View a user profile:

View seller reputation, rating, date started

Precondition: anyone can view non-personal details

Postcondition: None

Update a user profile:

Allow user to edit non-stats data such as their email, password, description

Precondition: Logged in to account or is admin

Postcondition: Account gets updated

Delete a user profile:

Have delete confirmation

Precondition: Logged in to account or is admin

Postcondition: Account deleted

View an item/service listing:

Anyone can view an item or service listing.

Create a listing (admin, user):

Allow seller to list an item/service and make is publicly visible

Precondition: Seller logged in

Item/service to be listed exists

Postcondition: Listing gets created

Delete a listing (admin, user):

Allow seller to make listing private

Precondition: Seller logged in

Postcondition: Listing removed