

CSC309 Project Proposal – UofT Marketplace

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Overall Purpose

The purpose of our web application is to provide University of Toronto students with a dedicated marketplace platform. Currently, students use a combination of websites like Facebook marketplace, Kijiji, eBay, letgo, etc, to sell and buy used items (textbooks, clothing, electronics, etc.). Our goal with this web application is to give students a unified platform which they can use to accomplish these buys and sells (primarily with other students), without having to relist items on or search through all the marketplace websites listed before.

They'll be able to make and edit a user account, post item listings, view others' listings, search and filter through items, coordinate in-person transactions, rate/follow users and items, etc. We're unsure if we want to have this application open to non-students because although that would help bring in more traffic, it would also remove the sense of 'exclusivity' this platform gives to the University of Toronto student population; however, this is a decision that can be made later on during the design process since it would only involve incorporating/removing some sort of student validation system.

Feature Specification Requirements

User profiles:

Regular User - each user will be able to create their own account/profile which they can use for selling their items on the marketplace or for contacting other sellers. A user profile has a bio, picture, rating, location, account creation date, followers/following, saved/favourite/watching posts, items they are currently selling, and reviews from previous buyers. Users can privately message other users to negotiate offers for items. (Maybe users can publicly comment on an available item to implement a public "bidding system".) -- I've seen this used on Toronto Facebook groups that sell shoes. A user should also be able to report users/posts, which notifies an admin.

Admin User - Has all the privileges of a regular user, but additionally can delete item listings, delete user accounts (possibly we can have "shadow-banning" like reddit), send a notification to all users, lock or disable accounts temporarily, delete a biased review, and turn a regular user into an admin user.

Anonymous User - can only view posts/listings, but does not have the ability to comment on them, message other users, etc.

User Authentication and Authorization:

Authenticate users based on username/password combinations. Only give an Admin User privileges to delete item listings, delete user accounts, lock or disable accounts temporarily, send a notification to all users, and turn regular users into admin users.

Data:

Store all data in a database. Data includes the list of all information pertaining to users and posts.

Regular users can change their bio, picture, and items they are currently selling, but can not change (or delete) their rating, account creation date, and other reviews made by previous buyers. We also must store data for the personal messages sent between each user, and public comments made by a user. We don't have to store any data for an anonymous user.

Posts for an item on the marketplace must have a picture, title, price, campus location, category, condition, and description of the item. Posts will automatically have a post/listing creation date.

We will have different ways to organize data. For example, we can sort listings by their creation date to implement a "recent listings" section, or by their location for a "listings close to you" section.

Views:

User views:

- the different ways to organize listings, such as the "recent listings" section. Includes the posts retrieved by using the search bar
- a specific listing.
- the messages sent/received between a user.
- a user profile

Admin views:

- superset of the user views, but each view will have additional admin options presented, such as the option to delete item listings, delete user accounts (possibly we can have "shadow-banning" like reddit), send a notification to all users, lock or disable accounts temporarily, delete a biased review, and turn a regular user into an admin user.

User Interactions

- Unauthorized (Anonymous) users (and authorized) will be able to view & search products available at the marketplace.
- Unauthorized users will be able to access the login and the sign-up forms.
- Authorized users will be able to comment on a product, place an offer (possible bidding system?), and to buy it.
- Authorized users will be able to add new products.
- Authorized users will be able to access their profile control panel, to view, update or add personal information.
- Authorized users will be able to access their purchase history.
- Admin users will be able to delete products and users.
- Admin users will be able to view a summary report of products currently available/sold.

View Mock-ups

(see next page)

Title

Buy

Sell

2


PP

Recent Listings / Following Sellers

≡

filter results / categories

PP Kanye fun 98



Yeezy 350 Boost Turtle Dove V1

Size 13, lightly worn, comes in box, Can provide receipt upon request...

\$275

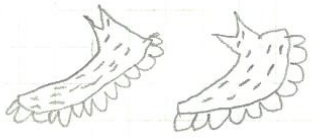
USED

Home / general buying page

Same Title Bar

Individual listing view

Yeezy 350 Boost turtle Dove V1



PP Kanye fun 98

listed on 2018/10/2

- \$275
- Condition: USED
- Category: footwear
- Size 13, lightly worn, comes in box, can provide...

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Make offer

Message Seller

forgot to include seller rating

Sort of like system for items. more la flare means popular item

Comments

include meet rap in sidebar

Same bar



Vantecladz

Avg. Rating ★★★★★

Location: Toronto

Joined Sep 2018


Bio:
Woke seller, Quality
hype sneakers.
#6600

followers
69

Following
27

[Send Message]

vantecladz's listings



User profile
view


Same styling
as general
buying page,
just user specific.

Edit Profile

Privacy settings

Notifications

etc..



[upload Image]

Username _____

name _____

website _____

Bio _____

Location

Country State/Prov City

email, phone, gender etc

Very tame and
generic
settings page

text fields