

## **CSC309 Project Proposal (W3cool)**

### UofT Textbook Selling Application

Because of the high price of brand new textbooks, many students go through the hassle of buying used textbooks which are relatively cheaper. Moreover, many students choose to cash in their used-textbook to compensate cost. However, most resources are not conveniently accessible. As a UofT student, it can be frustrating to find the books we need; it often requires going to multiple websites and going through old outdated listings. Our application serves the purpose of a platform for all the used textbook listings for UofT students to maximize convenience for students searching for used textbooks or an outlet for their textbooks. Its main target users are students that are financially incapable of buying multiple brand new textbooks as well as students who are interested in selling their old textbooks.

To use our website, the user will first need to register for an account, users without an account will only be able to view listings. Each account has corresponding user information including personal, contact and login information. The user will login using their account. Once logged in, the user will have the ability to post listings to sell used textbooks and remove their own postings after the transaction. In addition, the user can search through listings, using course code, book name and isbn; the user can also sort the results. With interest in a particular posting, the user can view the contact information of the seller to set up for a offline meet up to complete the transaction. At anytime, the user can update and edit his own information on their user page. All information will be managed via database (MongoDB).

This application will allow University of Toronto students across all 3 campuses to buy and sell used textbooks. Our Application would like to incorporate the following specifications and features:

“ \*\*\* ” - indicates additional features that we will add on if time permits.

User (server saves new data into database and pulls the data in database)

- Register with new information (a new user data is sent from client to the server)
  - \*\*\* using third party authentication mechanism to login
- Login (Server side authentication and authorization)
  - Server pull the corresponding user data from the database
  - Give user permission(update own profile and listings) only
- Profiling (personal info, profile picture, contact info, courses, year, campus)
  - Edit and update (server change corresponding data in db)
  - \*\*\* privacy options (only share certain information publicly)
- Visitor, not recorded in db, can only see listings. No other interactions with app
- Post listings or remove own listing/ edit own listing (send request to server to update, add or remove listing data in the db)
- Search textbooks by course code, book name or isbn (server pull data in the db and send back corresponding data)
- Look at seller profiles for contact information
- Transaction through contact(off line meet up)
- Log out
- \*\*\* private message other users
- \*\*\* rate the seller

Admin: Have authorization to modify all db data through the UI (not directly to the db)

- Log in
  - Give admin permission after authentication
- Remove any listings / edit any listings/ add listings
- Make changes to all user info.
- Ban accounts (remove user data and listings associated with it, add account into the list of banned accounts in the db)
- Change passwords
  - \*\*\*Password recovery

DataSet: We will create our own dataset using fake data

- Managed via MongoDB
- User data (all profile info, listings, \*\*\* ratings)

- Listings (seller info, book information, course that requires it, price)
- Courses (contain required textbooks)
- A list of banned accounts

Views (session dependant): three dynamic pages supporting all the core functionalities

- User profile page
- Listings page
- Register / Login page

\*\*\* add and modify page layout to enhance user experience and to support more features