## Purpose

The motivation for the project is to design and develop an application that allows McMaster students to conveniently buy and sell textbooks in a secure marketplace. Currently, students use unsafe online websites like Facebook or the campus store’s buyback program to sell their books. The application aims to verify users and maintain their privacy while allowing them to sell their books for a better price than they would to the campus store.

The purpose of this System Requirements Specification (SRS) is to provide a clear overview of the project’s functional and non-functional requirements that are relevant to the application’s stakeholders.

## Scope

The scope for the project covers the following application features:

1. An authentication and authorization platform that verifies McMaster students and allows them to log into and use the application
2. A marketplace system that uses information from the campus store and allows users to:
   1. Post about and categorize books that they would like to sell
   2. Search for books that they would like to purchase
3. An in-app system that allows buyers and sellers to privately contact each other, agree on a price, and choose where they would like to meet
4. The application will be accessible from any device (phone, tablet, desktop, etc.) to provide the best experience

Additionally, the application will be scalable to meet the requirements for other educational institutions besides McMaster University.

## Functional Requirements

### Posting book

1. The system allows sellers to post books by manually inputting book information
2. The system allows sellers to post books by scanning a UPC barcode and filling out the remaining information
3. The system allows sellers to remove postings
   * Postings must be able to be removed when the book is sold or if the seller is no longer interested in selling the book
4. The system allows sellers to see the price the book is currently being sold for at the campus store
   * Sellers may be interested in selling their book for a percentage of the price they originally paid

### Buying book

1. The system allows buyers to find books for a specified course code
   * Buyers may want to find the books available for a course they are taking
2. The system allows buyers to find books by book name
   * Buyers may be looking for a specific book
3. The system allows buyers to initiate a chat with sellers using Microsoft Teams
4. The system allows buyers to contact sellers using email
5. The system only gives seller information to authorized buyers
   * Sellers may be uncomfortable with their name, photo, and contact information being available on the open internet. Only allowing authorized buyers will reduce privacy and spam concerns.
6. The system allows buyers to find books at the campus store
   * The selection of used books may not satisfy the buyer. In this case, they can opt to purchase the book from the campus store.

### Authentication system

1. The system allows users to create an account
2. The system allows users to delete their account
3. Sellers and buyers can only be authorized if they have an email at their university
   * This will ensure only trusted individuals—bound to their university’s code of conduct—can access the system. This aims to reduce spam and malicious use of the system.

### Other

1. Users can access all functionality with any current major browser as specified by the > 2% in CA and not dead [Browserslist](https://github.com/browserslist/browserslist) query
2. Post-secondary-institution-specific information is abstracted so the system can be adapted to any institution
3. Import from library