### Title

**Campus Book Exchange**

### Problem and Domain Description

The problem revolves around the difficulty college students face in obtaining, selling, and exchanging textbooks affordably and efficiently. The domain is a student-centered marketplace.

### Solution Description

The application will be an online platform where students can list their textbooks for sale or exchange. Key features will include:

* User accounts with secure login and signup.
* Ability to post textbook listings including details like condition, price, and course number.
* Search and filter capabilities to find textbooks.
* Transaction handling between buyers and sellers.
* User ratings and feedback system.

### User Interfaces

1. **Home/Search Page**: Browse and search for textbooks.
2. **Listing Page**: View details of a specific textbook.
3. **Account/Profile Page**: Manage account settings and view user’s listings.
4. **Post Listing Page**: Form to post new textbook listings.
5. **Login/Signup Page**: User authentication.

### Preliminary ER Diagram

* **User**: UserID, Username, Email, Password.
* **Textbook**: BookID, Title, Author, Price, Condition.
* **Course**: ACourseID, CourseName, Department.
* **Transaction**: TransactionID, BuyerID, SellerID, BookID, TransactionDate.
* **Review**: ReviewID, UserID, Rating, Comment, BookID.