

## **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.

# ER Diagram for college-textbook-market place

