

Book Exchange

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Section 1: Introduction

1.1 Vision Statement

To develop a web system to support book exchange in CSULA. It is to provide students the opportunity to obtain books from other students that is willing to sell them, most likely at a cheaper price.

1.1.1 Software Purpose

The software should support functionalities for student book exchange

1.1.2 Software Scope

Web-based system

1.1.3 Software Perspective

none

1.2 Document conventions and definitions

Web-based system

1.3 Intended audience and Reading suggestions

Audience familiar with web-based system

1.4 References

none

Section 2: Overall description

2.1 User characteristics

Students enrolled in CSULA

2.2 Operating environment

Windows, Apache, PhP, MySQL

2.3 Design and implementation constraints

The system must support popular browsers, such as chrome.

2.4 Database considerations

MySQL, it is an open-source free software for relational database management system

2.5 Assumptions and dependencies

None

Section 3: External interface requirements

3.1 Hardware interfaces

None

3.2 Software interfaces

PhP, MySQL, CSS, HTML

3.3 Communication interfaces

Http protocol

Section 4: System functional requirements

4.1 System function 1

The system shall have an administrator.

(1) The administrator shall be able to view the users.

(2) The administrator shall be able to delete the users.

(3) The administrator shall be able to edit the users.

a. Includes balance, standing, admin privileges

4.2 System function 2

The system shall have a registration system.

(1) The system shall allow a new user to register to use the system.

(2) The system shall allow the user to register using his/her email address.

(3) The system shall allow the user to setup a password.

4.3 System function 3

The system shall allow the user to login the system by using registered email address and password.

(1) The system shall verify user's email address and password in the system.

(2) The system shall allow the user to re-login the system if his/her input email address or password were typed wrong or we're log out in the system.

4.4 System function 4

They system shall allow user to sell books

(1) The user shall be able to enter the book's information

(2) The user shall be able to enter the cost of the book

4.5 System function 5

The system shall allow the user to shop for books

- (1) The user shall be able to view a list of books available to buy*
- (2) The user shall be able to click on the book cover or title for more information*
- (3) The user shall be able to view advance information of the book including the price, comments, description, rating, etc*
- (4) The user shall be able to add the book to the shopping cart*
- (5) The user shall be able to add comments and ratings for the book*

4.6 System function 6

The system shall allow the user to access the forum

- (1) The user shall be able to view the discussion*
- (2) The user shall be able to post*

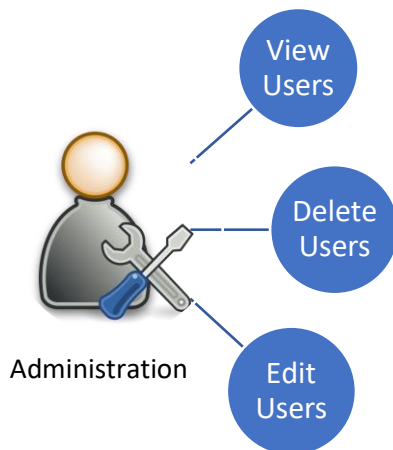
4.7 System function 7

The system shall allow the user to access his/her profile

- (1) The user shall be able to view his account balance and book's they posted for sale*
- (2) The user shall be able to view their cart*
- (3) The user shall be able to add or to delete items in their cart*

Section S: Use case model

5.1 Administration Standard



Use Case Description (Administration)

5.1.1 Use Case 1

- *Administrator can view all the users in the system*

5.1.2 Use Case 2

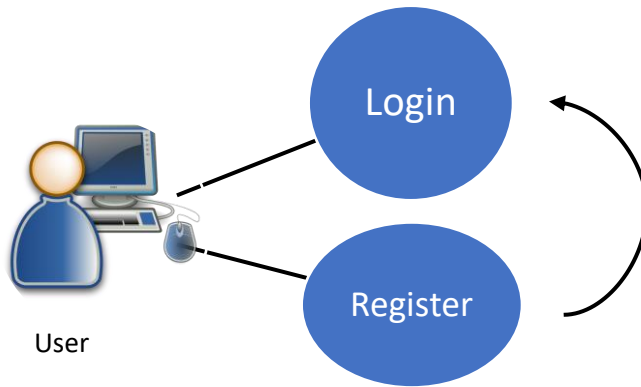
- *Administrator can delete any of the users in the system*

5.1.3 Use Case 3

- *Administrator can edit any of the users in the system*

- *Change their balance, status, and admin privilege*

5.2 User Standard



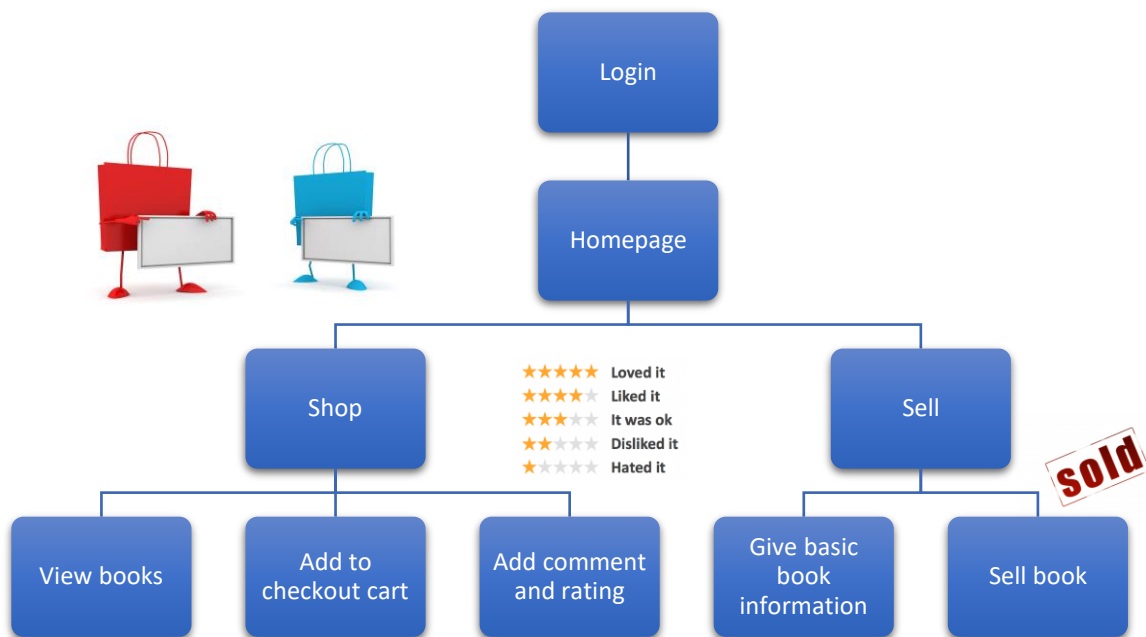
Use Case Description (User)

5.2.1 Use Case 1

- *User can login to access to more functions of the application*

5.2.2 Use Case 2

- *User can register to be able to gain access after login*



Use Case Description (User) II

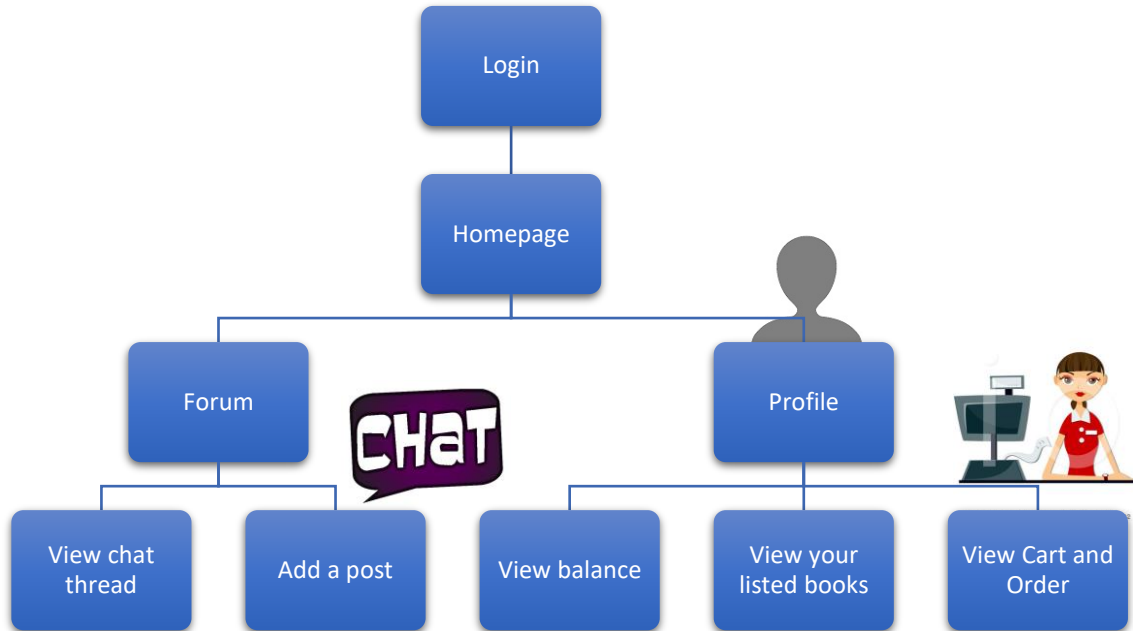
After the user login, user has access to the majority of the application: Shop and Sell

5.2.3 Use Case 3

- *Users can access the “Shop” functionality*
 - *User can view the books listed and their basic information*
 - *User can view more detailed information of the book by clicking the title or cover picture.*
 - *User can add any book to their checkout cart*
 - *User can add a comment and rating for the book*

5.2.4 Use Case 4

- **User can access the “Sell” functionality**
 - *User has to provide the basic information of the book*
 - *User can then click sell to post the book for sale*



Use Case Description (User) III

5.2.5 Use Case 5

- **User can access the “Forum” functionality**
 - *User can view the chat thread of people’s past and present discussion*
 - *User can post in the chat thread by typing the comment and clicking post*

5.2.6 Use Case 6

- **Users can access the “Profile” functionality**
 - *User can view their remaining balance*
 - *User can view their books listed for sale*
 - *User can view their cart for any book they are interested in buying*
 - *User can order the items in the cart*

Section 6: Nonfunctional requirements

6.1 Performance requirements

Not considered in this system

6.2 Safety requirements

Not considered in this system

6.3 Security requirements

Use user’s email address and password to verify his/her identity

6.4 Software quality attributes

System must be easy to be updated to new databases and web servers with standard http protocol and SQL language

6.5 Business rules

The user has to login first, then he/she can use the majority of the system

6.6 User documentation

None

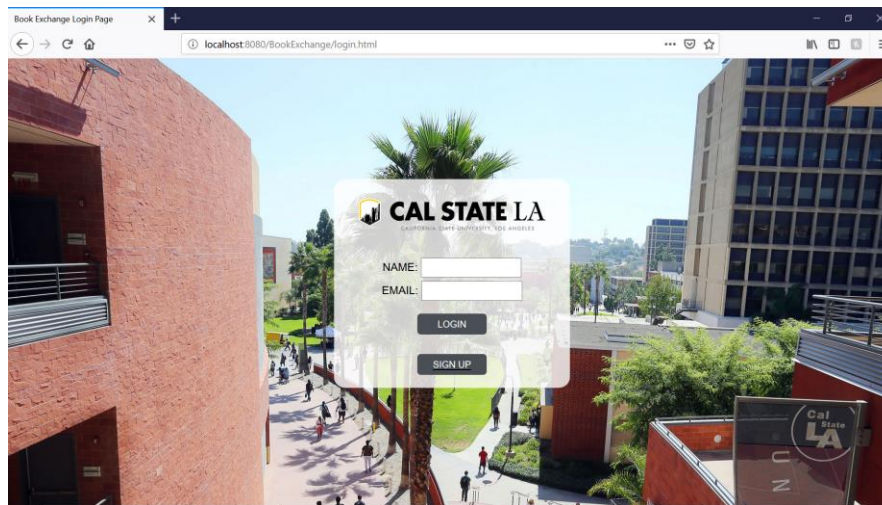
Section 7: Graphical User Interface

7.1 Introduction

The graphical user interface used for administrator and user has a main theme. The theme represents the CSULA's school colors: black, gold, and gray, which is used for the majority of the color scheme in the GUI. The GUI represents ease of use and viewing to interact with many of the functions in the application.

7.2 GUI description(s)

Login Graphical UI:



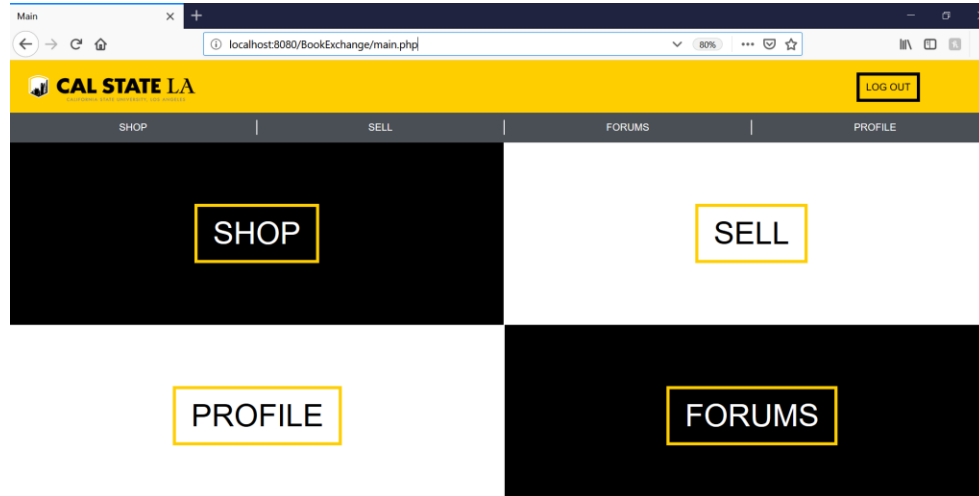
This is the picture of the graphical user interface when user wants to login. User, who has an account, can login by typing their registered name in the name textbox and their email in the email text box. The user then clicks the button "Login." The user will be redirected to the homepage if successful. If not, it will stay in the login page.

User Enrollment Graphical UI:



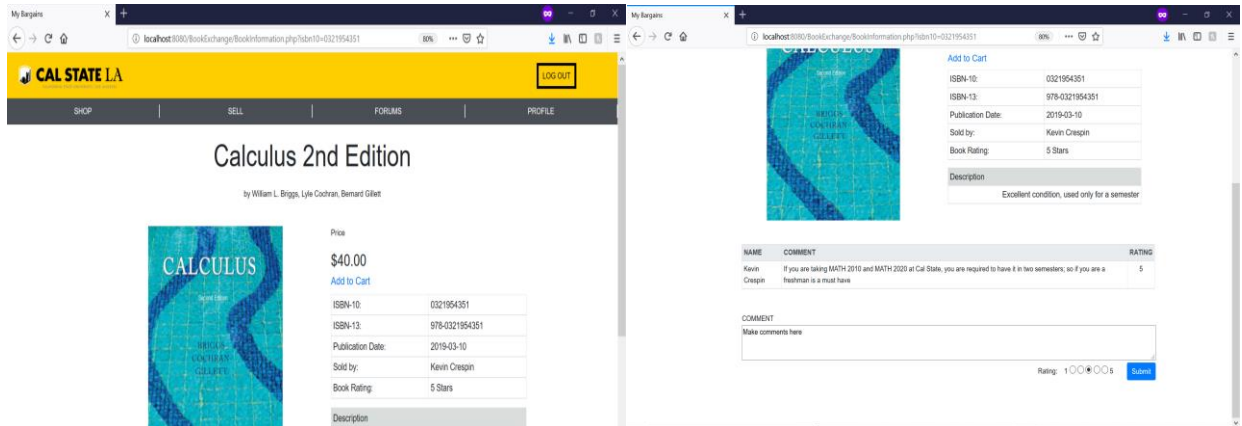
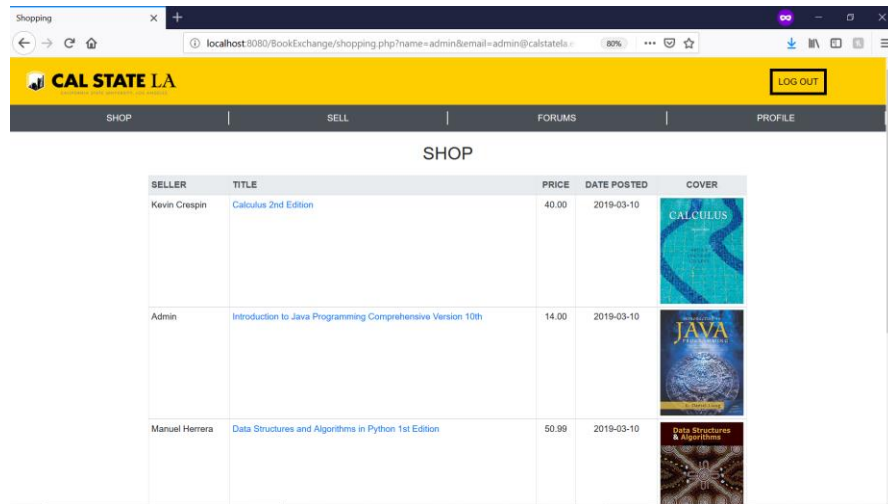
The picture above is the graphical user interface for user to sign up to be able to gain access to most of the application after login. It looks very similar to login but with only one button. The user types a name, an email and clicks “Register” to register in the system. The user can then use that information to login.

Home Page Graphical UI:



This is the picture of the graphical user interface of the homepage document. The user can click on any of the options: “Shop,” “Sell,” “Profile,” and “Forums.” In addition, the user can also logout anytime by pressing the logout button on the top right.

Shop Graphical UI:



The 3 pictures above are the graphical user interface for the “Shop” page documents. The first picture is where users are directed after clicking “Shop” in the home page or the navigation bar. The user can view the books listed for sale. Once the user clicks the title or the cover page of any book, they are taken to another page that shows more detailed information of the book.

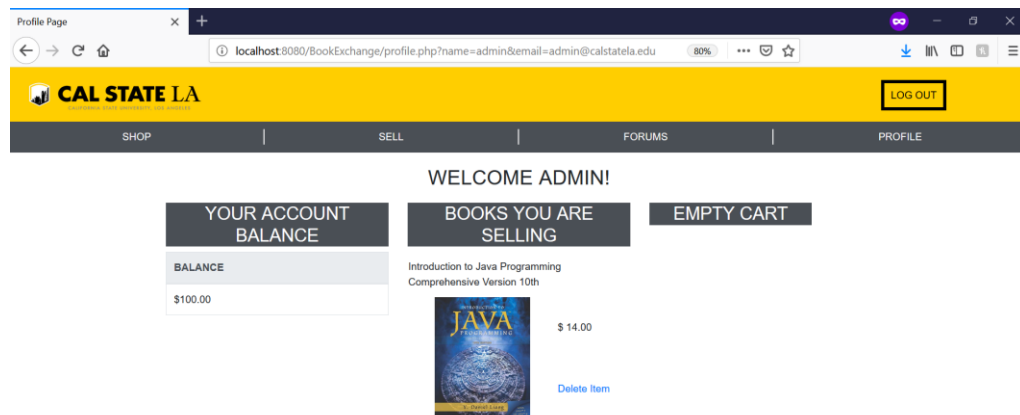
Sell Graphical UI:

This is the picture of the graphical user interface for the “Sell” page document. It is where the user is directed after the user clicks “Sell” in the homepage or the navigation bar. The user can provide the book’s information corresponding the text boxes. Once the user clicks the sell button, the books will be listed for sale, which can be seen in the shop page.

Forum Graphical UI:

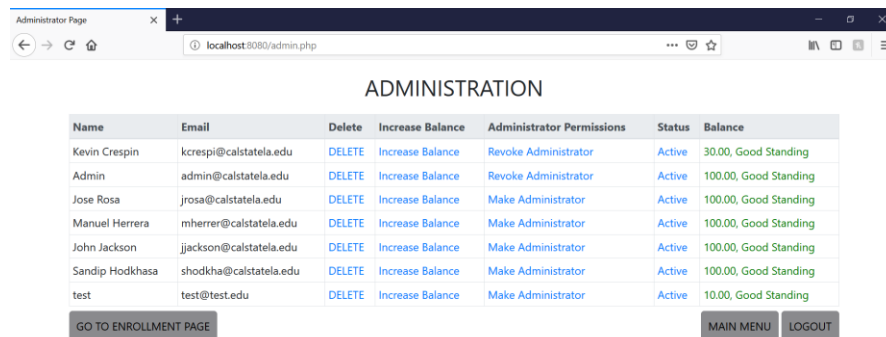
The picture above is the graphical user interface for the “Forum” page document. It is where the user is directed after the user clicks “Forum” in the homepage or the navigation bar. The user can view people’s past and present discussion. The user can also do a post by typing their post comment on the right textbox and clicking the post button.

Profile Graphical UI:



This the picture of the graphical user interface for the “Profile” page document. It is where the user is directed after clicking “Profile” in the homepage or the navigation bar. The user can view their balance, view their books listed for sale, and view the items in their cart. The user can also delete an item from the books listed for sale and/or an item from the cart. This is the page where the user can also order the items in the cart by clicking the order button.

Administration Graphical UI:



The picture above is the graphical user interface of the Administration page document. It is where any administrator is directed after logging in. The administrator can view enrolled accounts and their information. The administrator can delete an account, increase an account’s balance, make/revoke admin privilege, and set status of an account. From this page, the administrator can go to the enrollment page, main menu (homepage), and log out by clicking on the corresponding button.