

# User Interface Design Document

*TextForSale*

**Client**

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TextForSale  
User Interface Design Document

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# 1. Introduction

## 1.1 Purpose of This Document

The purpose of this document is to help the users navigate through the TextForSale application. It will highlight the important features of the application, including the stand-alone client-side application and how it interacts with the TextForSale API.

## 1.2 References

1. TextForSale system requirements

## 2. User Interface Standards

This section is an overview of the core elements of navigation and utility of the TextForSale application. Figure 1.0 includes the landing page and the elements consistently available across every page in the application. These elements include the 'TextForSale' brand logo in the top left, the elements within the navigation such as 'Home', 'Books', 'Login', 'Register', and the shopping cart icon.

The navigation bar is always available to the user when viewing any page at any time. The user can change views by clicking on the 'TextForSale' brand logo on the top left, which will navigate to the landing page, as will the 'Home' button. The 'Book' button will allow the user to view the search page to find books. An example of this is shown in figure 1.1. The right-hand side of the navigation bar contains the 'Login', 'Register', and a shopping cart. The 'Login' button will display a modal with a form to fill out the credentials (Figure 2.5). If the user already has an account, then they can use the credentials they created. Otherwise, they will need to navigate to the registration form and create an account (Figure 2.2). An important note is that a user is not required to register an account until they proceed to checkout. This is an intentional choice to allow user's to find the books they need before they sign up for the service.

Generally, all of the screens will have the same color scheme, have the common components, and only differ slightly based on the page's utility. When the user first views the page, they have the choice to search for books or to login/register. Logging in or registering will eventually allow the user to view their profile page, where they will be able to see transaction history, rating, and be able to edit their profile information. Secondly, the user can either search for other users or search for a textbook. Searching for other users will redirect them to that users public profile if they are a member and searching for a textbook will redirect to the search results page. In the search results page, the user can click on a specific textbook to view its details (Figure 1.3) or they can search for something else using the search section in the menu bar at the top. After clicking on the book details, the user can add it to their cart and then continue shopping or visit the checkout page. The checkout page will show the user their cart and prompt them for

payment information, depending on which payment option they choose. After putting in correct payment information, the user will be redirected to a order confirmation page. This page will simply display a message confirming that the order has been placed and then it will give the user the option to continue shopping (which will redirect to the user's profile page) or to log out. Logging out will redirect the user to the main home page that asks the user to login or register.

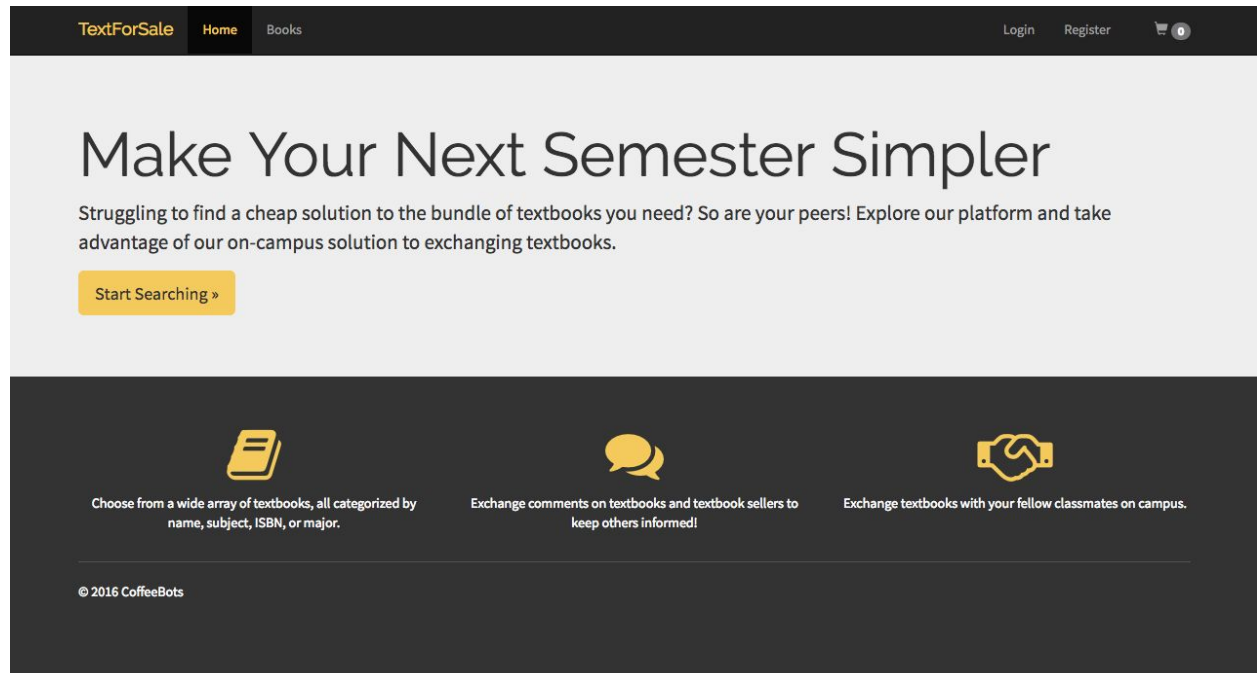


Figure 1.0

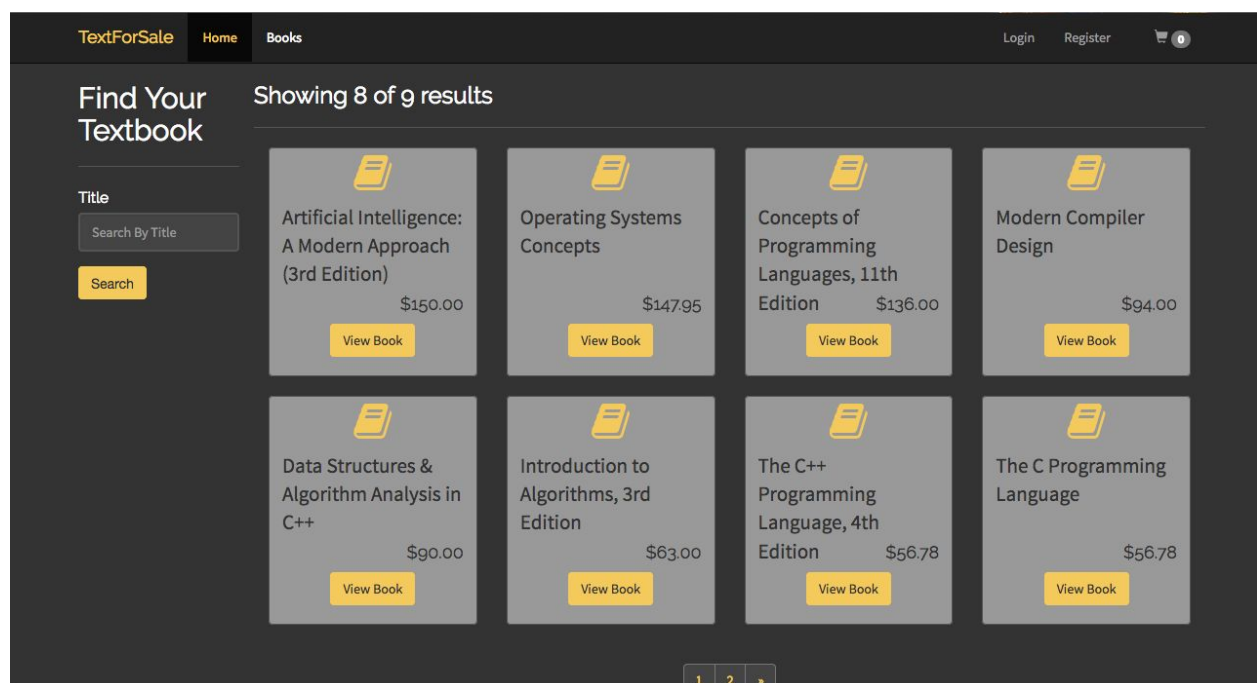
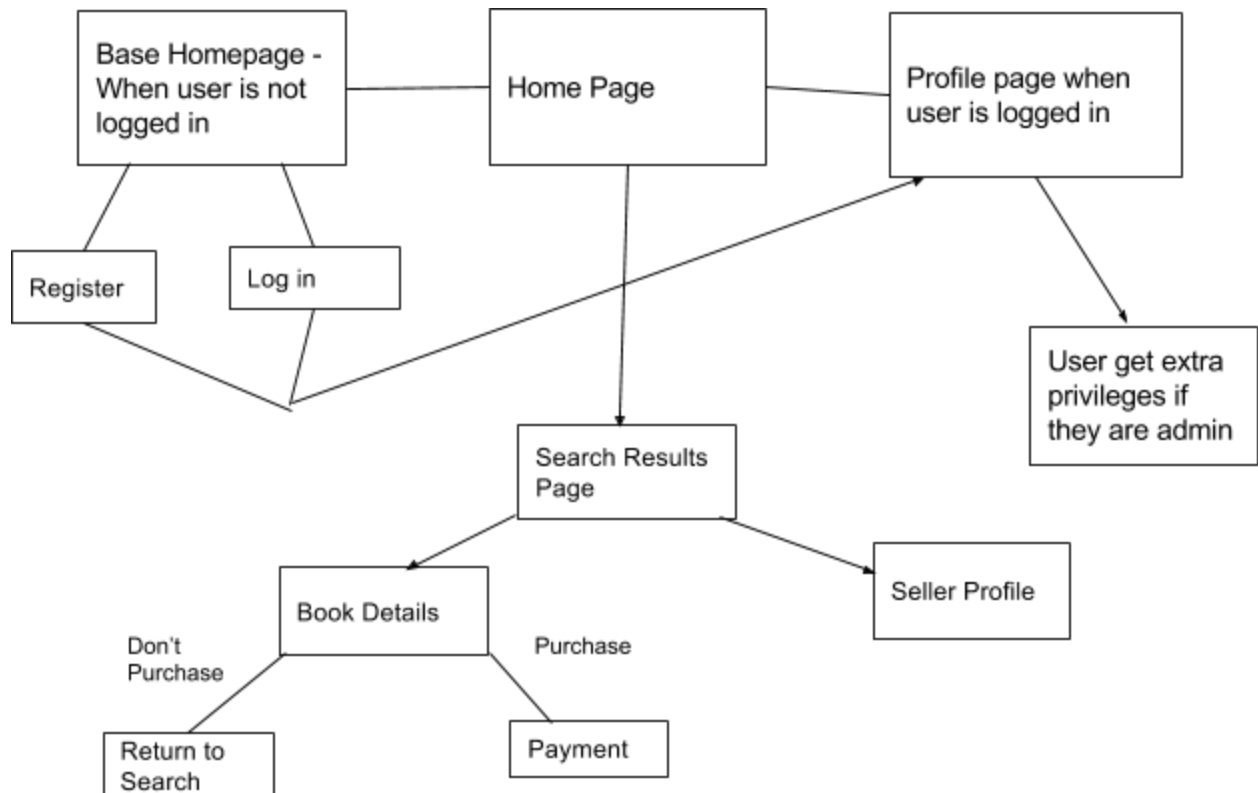


Figure 1.1

### 3. User Interface Walkthrough

#### 3.1 Navigation Diagram

The following navigation diagram describes the user's interaction with the website and where it relocates the user in browser.



#### 3.2.1 Searching

When the user navigates to the search page, the page will initialize with the most popular (most purchased) books. The books will display eight at a time. The user can search for many fields, such as title, course subject, price, ISBN, and seller. An example of the initialized search page is shown in Figure 1.1. A paginated navigation bar is included below the books. If the user receives more than eight results, he or she can scroll through eight at a time to find the desired book. Once the user searches for a title, the results will filter and change as shown in Figure 2.0. Once the user finds the desired book, he or she can click on the thumbnail representation to view additional information about the book, or add to the cart, trade, or add to cart and directly purchase (Figure 2.1).

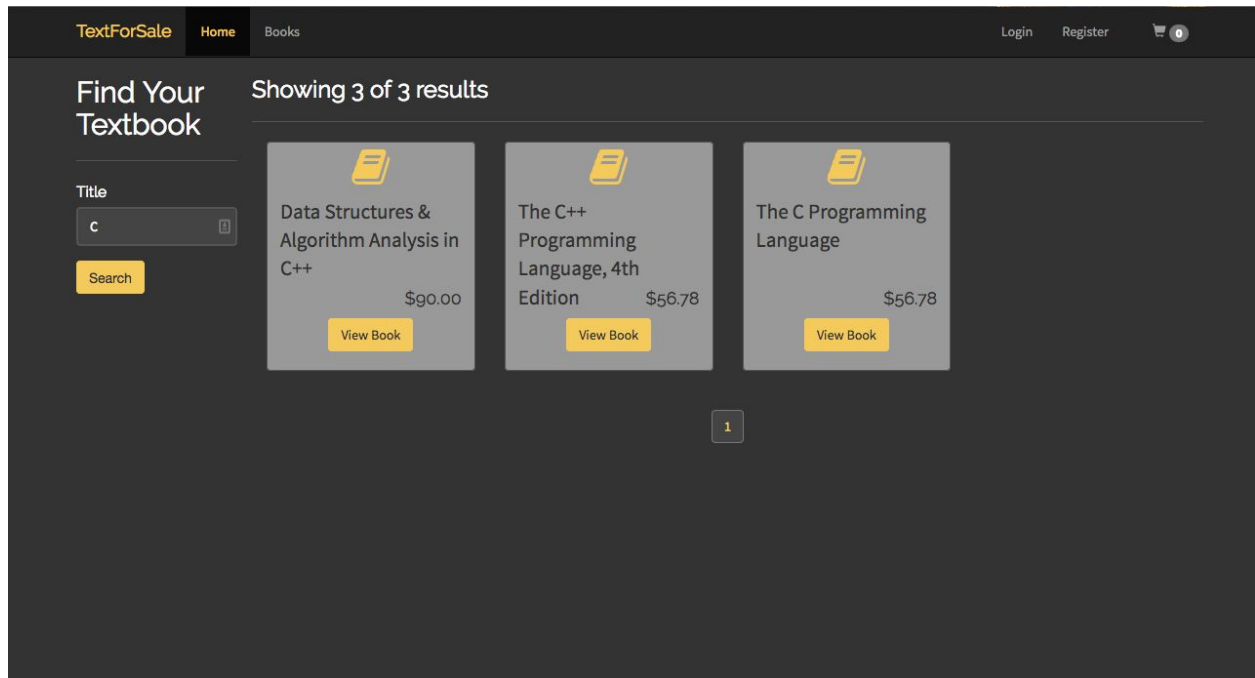


Figure 2.0

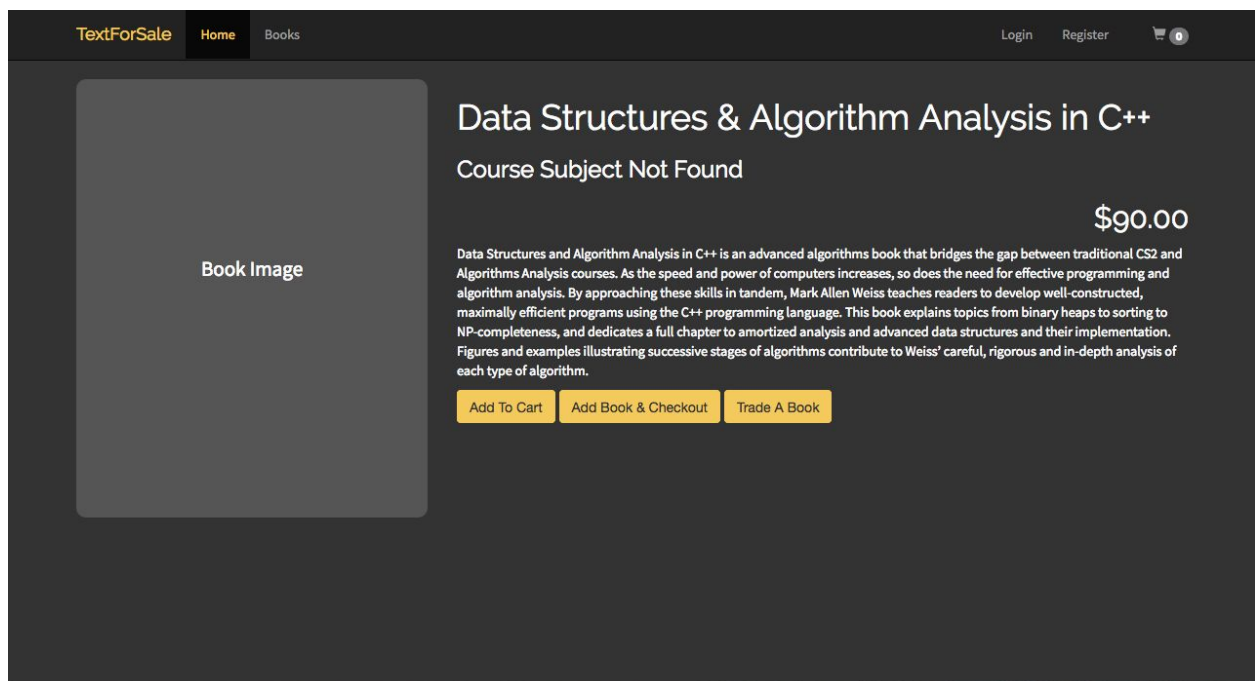
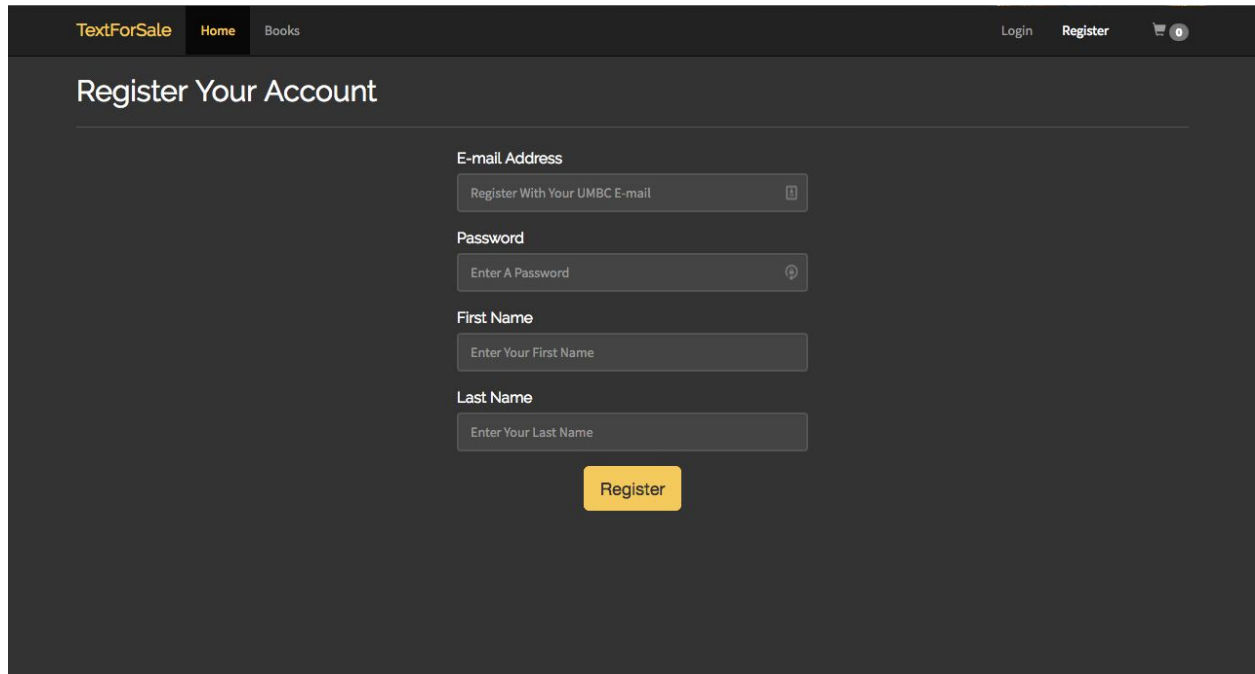


Figure 2.1

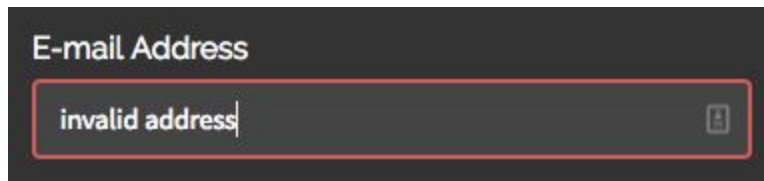
### 3.2.2 Registration

If the user does not have an account registered, he or she can navigate by clicking on 'Register' in the top-right section of the navigation bar. The user will be redirected to the registration form page. The user will be required to enter a valid UMBC e-mail address, a password, and a first and last name. Once the user begins entering an e-mail address, the border of the input field will change to red (Figure 2.3) to indicate it is not a valid address or green to indicate a valid match has been made (Figure 2.4)



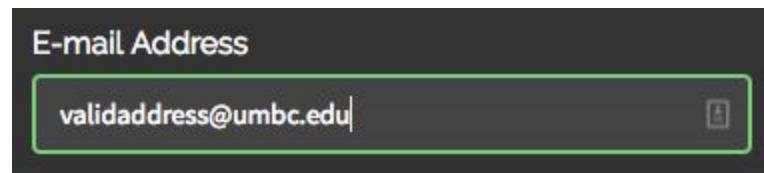
The screenshot shows the 'Register Your Account' page. At the top, there is a navigation bar with 'TextForSale' in orange, 'Home' in white, and 'Books' in white. On the right side of the navigation bar, there are links for 'Login' and 'Register' in white, and a shopping cart icon with a '0' next to it. Below the navigation bar, the title 'Register Your Account' is displayed in white. The form consists of four input fields: 'E-mail Address' with the placeholder 'Register With Your UMBC E-mail', 'Password' with the placeholder 'Enter A Password', 'First Name' with the placeholder 'Enter Your First Name', and 'Last Name' with the placeholder 'Enter Your Last Name'. Each input field has a small icon on the right side. Below the input fields is a yellow 'Register' button.

Figure 2.2



This close-up shows the 'E-mail Address' input field. The text 'invalid address' is entered into the field. The input field has a red border, indicating that the entered address is not valid.

Figure 2.3



This close-up shows the 'E-mail Address' input field. The text 'validaddress@umbc.edu' is entered into the field. The input field has a green border, indicating that the entered address is valid.

Figure 2.4

### 3.2.2 Login

If the user already has an account, he or she can simply login. The user can click 'Login' on the right-hand side of the navigation bar. This action will display a modal for the user to enter credentials as shown in the figure below. Once logged, the user's name will appear in a welcome message next to a logout button (Figure 2.6). This display will replace the previous section which displayed 'Login' and 'Register'.

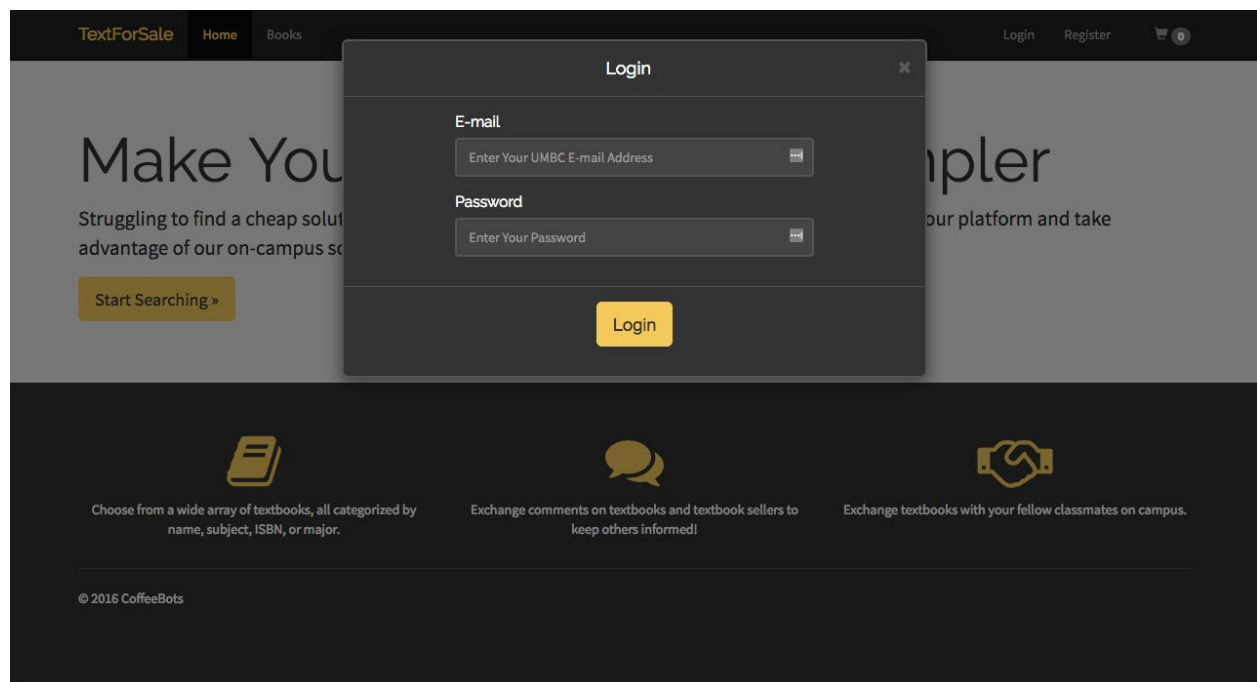


Figure 2.5

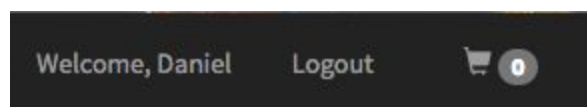


Figure 2.6

## 4. Data Validation

Include a full description of all data items that can be entered into the system by the user. The description should include the item's basic data type (e.g., integer, string), its limits, and its allowable format(s). Be sure to uniquely identify each data item. For example, if you are using a GUI, a data item can be identified by screen name and data item label. A tabular format works well for the data validation information.



Entry Location	Data Type	Limits
Search string	String	Limited by TextForSale API
Rating Users	Integer	Int 1-5 accepted
Rating Textbook Condition	String	Text review limited to 200 characters
Payment Type	String	Must choose between VISA, MasterCard, American Express, Discover, PayPal
Credit Card Number	String	Must be 16 characters
Credit Card Name	String	Less than 200 Characters
Credit Card Expiration Month	Integer	Must be int 1-12
Credit Card Expiration Year	Integer	Is expiration month is less than current month, year must be at least current year + 1. Otherwise, It can be current year or anything greater
PayPal Email	String	Maximum of 200 characters
PayPal Password	String	Maximum of 200 characters
Security Code	Integer	3 digit integer

## Appendix A – Agreement Between Customer and Contractor

The customer agrees to a textbook exchange system that includes searching, browsing and selling capabilities. See System Requirements Specification for more information. Additional features will be provided in further development intervals.

If there are future changes to this document, a new Customer and Contractor agreement will be drafted and signed by both parties.

### Client

Name \_\_\_\_\_ Date \_\_\_\_\_  
Print

Name \_\_\_\_\_ Date \_\_\_\_\_  
Signature

### Team

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Signature

## Appendix B – Team Review Sign-off

This document has been written by all members of the team. Additionally all team members have reviewed this document and agree on the content and format. Any disagreements or concerns are addressed in team comments below.

**Team**

Name

Date

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Name

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Signature

Comments

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Comments

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### **Appendix C – Document Contributions**

John Gordon initially created this document by providing an outline and the cover page. Mehreen Awan wrote the purpose of this document and the user interface standards. Mina Beshai drafted Appendices A-C. Daniel Kelly created the user interface walkthrough and Daniel Schomisch put the data validation table together.