

ENTWA - Cricket Bookshop - User Interaction Design - Adam Thornton UP2018447

Fig. 1 - Overall Customer and logged out interaction design

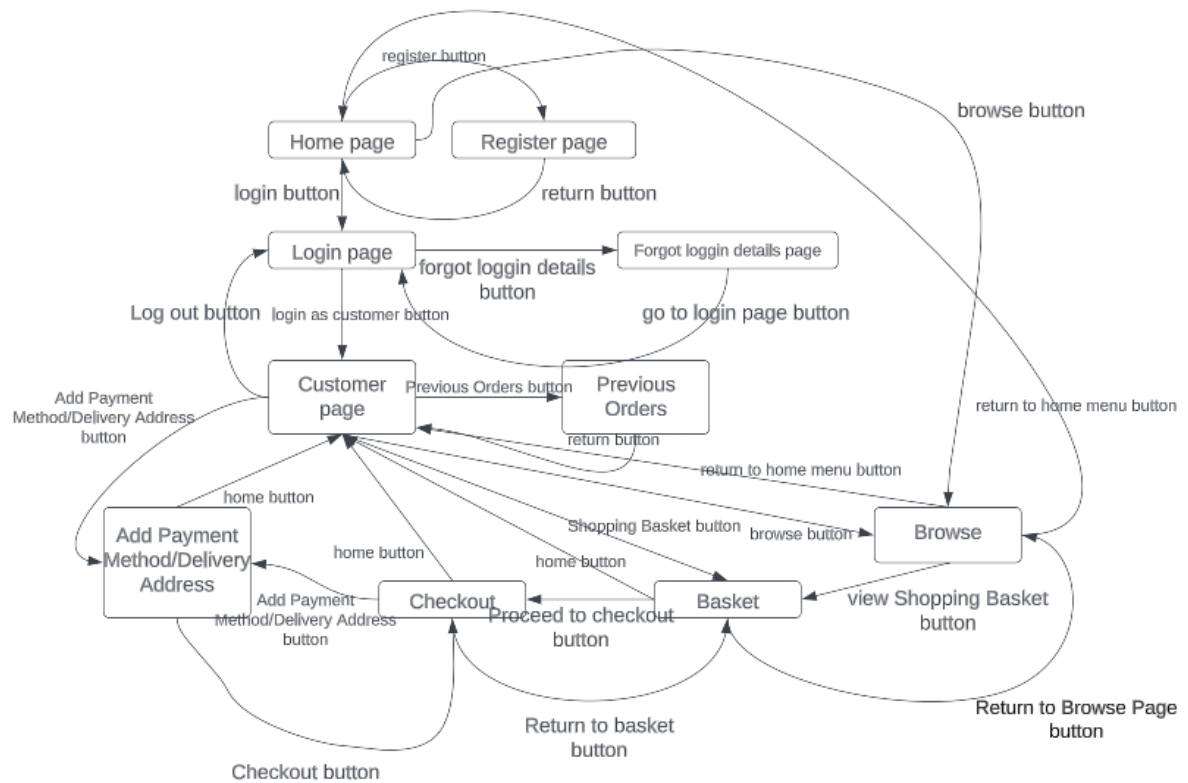


Fig 2. - Overall Admin interaction design

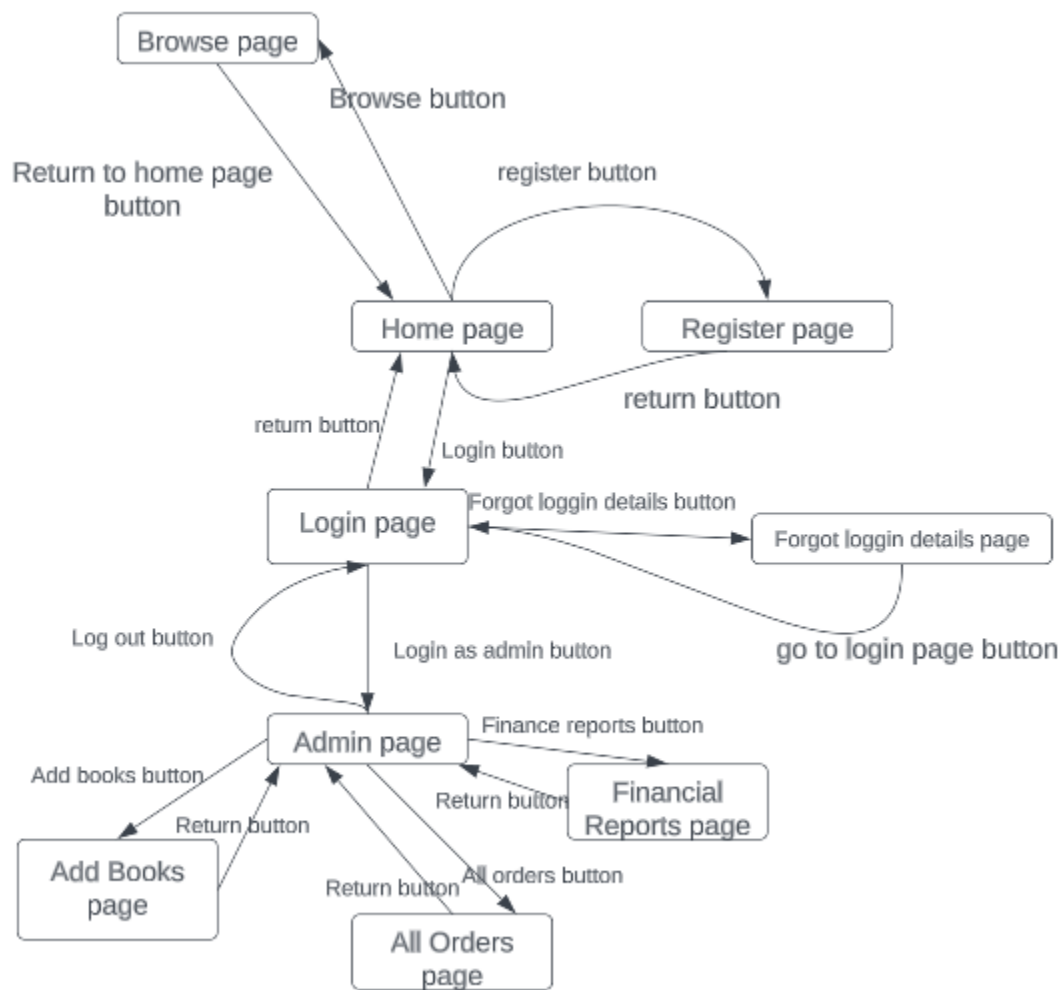
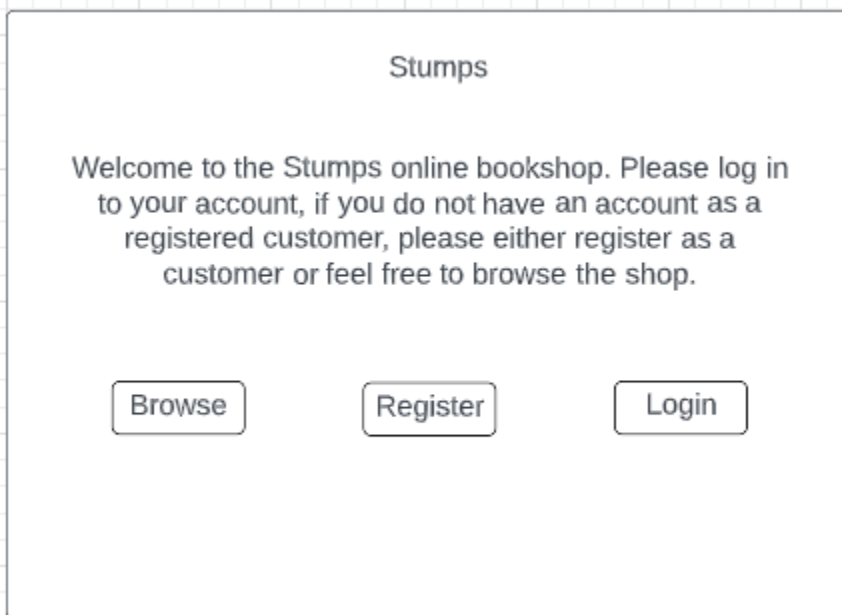


Fig. 3 - Home Page

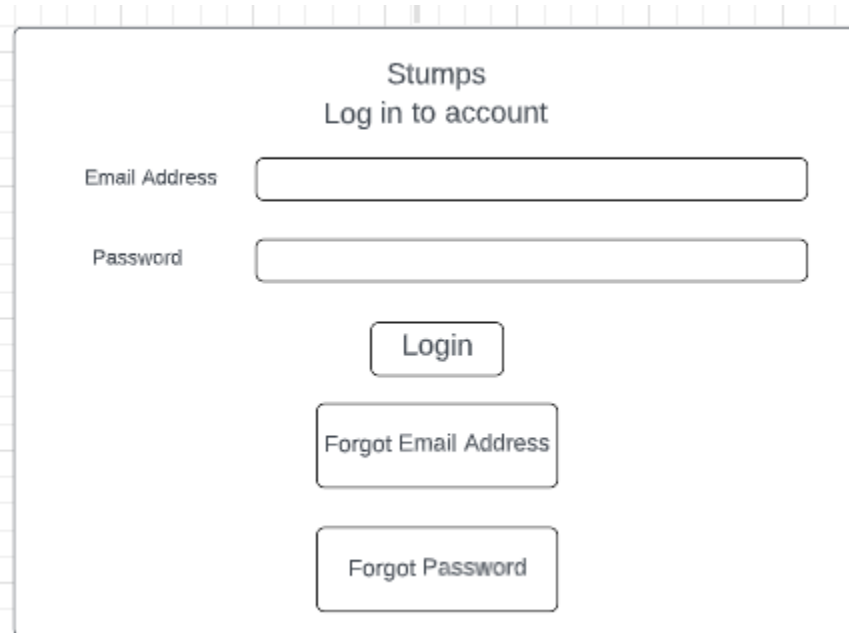


The image shows a web page titled "Stumps". Below the title, there is a welcome message: "Welcome to the Stumps online bookshop. Please log in to your account, if you do not have an account as a registered customer, please either register as a customer or feel free to browse the shop." At the bottom of the page, there are three buttons: "Browse", "Register", and "Login".

Functionality - Log in to the system

A user will start on the logged-out 'Home' page (Fig. 3), in order to log in to an existing account, the user must click the 'Login' button, this will take them to the 'Login' page:

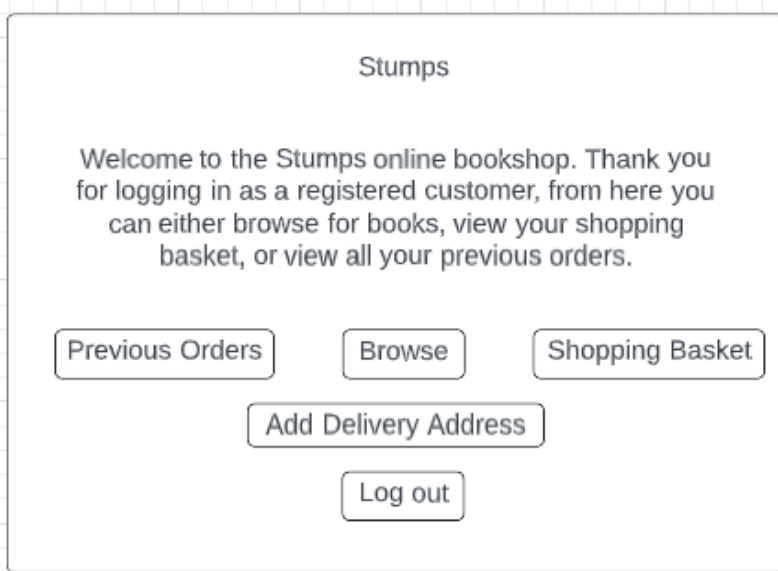
Fig. 4 - Login Page



The image shows a web page titled "Stumps" with the subtitle "Log in to account". Below the subtitle, there are two input fields: "Email Address" and "Password". Below the "Password" field, there are three buttons: "Login", "Forgot Email Address", and "Forgot Password".

Here they will enter a valid email address and password combination and click the 'Check Credentials' button which if the credentials are correct will render a login button, clicking the login button will take the user to the home page of a registered customer or administrator, depending on the role of the account.

Fig. 5 - Customer home page



The image shows a web interface for a customer. At the top, the word "Stumps" is centered. Below it is a welcome message: "Welcome to the Stumps online bookshop. Thank you for logging in as a registered customer, from here you can either browse for books, view your shopping basket, or view all your previous orders." Underneath the message are five buttons: "Previous Orders", "Browse", "Shopping Basket", "Add Delivery Address", and "Log out". The buttons are arranged with "Previous Orders", "Browse", and "Shopping Basket" in a row, "Add Delivery Address" centered below them, and "Log out" centered at the bottom.

Stumps

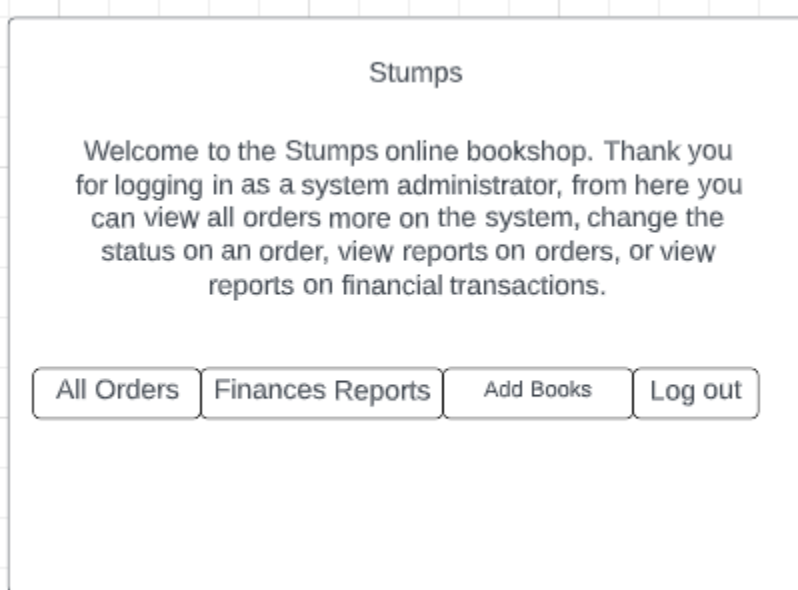
Welcome to the Stumps online bookshop. Thank you for logging in as a registered customer, from here you can either browse for books, view your shopping basket, or view all your previous orders.

Previous Orders Browse Shopping Basket

Add Delivery Address

Log out

Fig. 6 Admin home page



The image shows a web interface for a system administrator. At the top, the word "Stumps" is centered. Below it is a welcome message: "Welcome to the Stumps online bookshop. Thank you for logging in as a system administrator, from here you can view all orders more on the system, change the status on an order, view reports on orders, or view reports on financial transactions." Underneath the message are four buttons: "All Orders", "Finances Reports", "Add Books", and "Log out", arranged in a single row.

Stumps

Welcome to the Stumps online bookshop. Thank you for logging in as a system administrator, from here you can view all orders more on the system, change the status on an order, view reports on orders, or view reports on financial transactions.

All Orders Finances Reports Add Books Log out

Functionality - recover lost credentials

If the user has forgotten their password they can click on the 'Forgot login details' button from the 'login' page which will take them to the 'forgotLoginDetails' page:

Fig. 7 - Forgot login details Page

Stumps

Forgot Password/Email Address

Email Address

Password

Get Password

Given name

Family name

Email Address

Get Email Address

Go to login page

Here the user enters the email address of their account and clicks the 'Get Password' button, this will output the valid password associated with the provided email address, they can then click the 'Go to login page' button to return to the login page (Fig. 4). However if they cannot remember the email address the account was registered with they can enter their 'Given name' and 'Family name' (forename and surname) and click the 'Get Email Address' button which will output the email address associated with their account in the text field below

Functionality - Register a new account

In order to register a new account the user will need to click the 'Register' button on the 'Home' page (Fig. 3), this will take the user to the 'Register' page:

Fig. 8 - Register New Customer Page

Stumps

Register new user

Given name

Family name

Email Address

Password

Role

Check Role Register Customer Register Administrator Login

From here the user will need to enter their 'Given name', 'Family name', a valid 'Email Address', and a secure 'Password', and select a role', then they will need to click the 'Check Role' button this will render the 'Register Customer' or 'Register Administrator' button, clicking the rendered button will register the account as a customer or administrator.

Functionality - Browse for books

There are a few different ways to browse for books, the first one is immediately from the 'Home' page (Fig. 3), click the 'Browse' button, and it will take the user to the logged-out variant of the 'Browse' page:

Fig. 9 - Browse (logged out) Page

Stumps
Books

Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies in stock

Title Author(s)

Year of publication Price Range

Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies in stock

From here users can search for books by 'Title' and 'Author(s)', they can also filter the results by 'Year of publication', the 'Return to home menu' button will return the user to the 'Home' page, the 'Browse' button will render the second data table which shows the results:

This data table shows the user whether the books they searched for, or books written by the author(s) they searched for are in stock, they can see details about the books such as the title, author(s), publisher, edition, year of publication, price, and copies in stock. The user can return to the 'Home' page (Fig. 3) by clicking the 'Return to Home screen' button. Browsing for books logged out means the books can't be added to the user's shopping basket or purchased.

The second way to browse for books will allow users to purchase books. From the 'Home' page (Fig. 3) the user must log into their account, it must have the role of a registered customer, by clicking the 'Login' button, as explained above, if they are not a registered customer then register a new account by clicking on the 'Register' button, as explained previously, then log into this account through the 'Login' button, from here they will be sent to the 'Customer' home page (Fig. 5). From here click the 'Browse' button, this will take them to the customer 'browse' page:

Fig. 10 - Browse Page

Stumps
Books

Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies in stock

Title Author(s)

Year of publication Price Range

Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies in stock

Title	Author(s)	Edition	Copies

Here the user can enter the 'Title' and 'Author(s)' search parameters, and filter the search by 'Year of publication' and 'Price Range', just like you can with the logged-out variation of this page, the difference is this variation will also allow the user add books to their basket by clicking 'Add to Shopping Basket'. Clicking the 'Return to home menu' will return the user to the 'Customer' home page (Fig. 5), and clicking the 'Browse' button will show the books that match the search parameters and filters, clicking 'Reset' will show all the books in the database, clicking 'Shopping Basket' will navigate to the shopping basket. Evidently, this page has all the functionality of its logged-out variation and more.

Functionality - placing an order

In order to place an order the user must first log in as a registered user, as explained previously, then the user must go to the 'browse' page (Fig. 10), this can be done from the 'Customer' home page (Fig. 5), click the 'Browse' button, from here enter the id of a book and how many copies being purchased, they then click the 'Add to Shopping Basket' button which will add the book(s) to the Shopping Basket. By clicking on the 'Shopping Basket' button, the user can go to the 'ShoppingBasket' page:

Fig. 11 - Shopping Basket Page

Stumps							
Shopping Basket							
Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies in stock	Remove from basket

Return to Home screen

Proceed to checkout

Return to Browse page

Once the user is in the Shopping Basket they can see every book in the order, as well as remove a book from the order, the user can return to the 'Customer' home page by clicking the 'Return to Home screen' button, or they can click 'Proceed to checkout' which will take the customer to the 'Checkout' page:

Fig. 12 - Checkout Page

Return to Home screen

Stumps

Checkout						
Title	Author(s)	Publisher	Edition	Year of publication	Price	Copies

Add Payment Method

Place Order

Add Delivery Address

From here they can look at the order to make sure it is correct, they can click the 'Return to Home screen' button to return to the 'Customer' home page (Fig. 5), can click 'Add Payment Method' to add a payment method, they can click 'Add Delivery Address' to add an address to deliver the order to (note add payment method and add delivery address navigate to the same page) and they can click the 'Place Order' button to place their order. The checkout page also has a table of available payment methods and delivery addresses and text fields for users to choose from before placing the order.

(Note: the next two functionalities were moved to the same page and are accessed through the same button)

Functionality - Add payment method

In order to add a payment method, the user must first log in as a registered customer from there they must navigate to the 'Checkout' page (Fig. 12), the quickest way to do this is to click on the 'Shopping Basket' button in the 'Customer' home page (Fig. 5), this will take the user to the 'Shopping Basket' page (Fig. 11), from there they click the 'Proceed to checkout' button to take the user to the 'Checkout' page (Fig. 12). In order to add a new payment method the user must now click the 'Add Payment Method' button, which will take them to the 'Add Payment Method' page:

Fig. 13 - Add Payment Method Page

Return to Checkout Stumps

Add Payment Method

Enter Card Holder Name

Enter Card Number

Enter Card Expiry Date

Enter Card Security Code

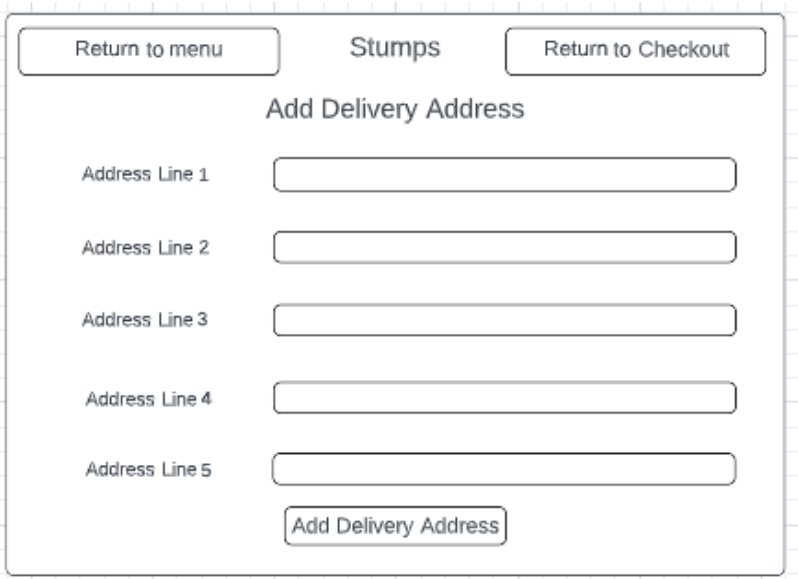
Add Payment Method

The user must enter the name on their credit/debit card, as well as its number, expiry date and security code, then they click the 'Add Payment Method' button to add the payment method, then they must click the 'Return to Checkout' button in order to return to the 'Checkout' page.

Functionality - Add Delivery Address

In order to add a delivery address, the user must first log in as a registered customer. Once on the 'Customer' home page (Fig. 5), there are two ways to access the 'Add Delivery Address' page, the quickest way is by clicking the 'Add Delivery Address' button on the 'Customer' home page, this will take the user to the desired page:

Fig. 14 - Add Delivery Address Page



Return to menu Stumps Return to Checkout

Add Delivery Address

Address Line 1

Address Line 2

Address Line 3

Address Line 4

Address Line 5

Add Delivery Address

The other way is to navigate to the 'Checkout' page (Fig. 12) as explained previously and click the 'Add Delivery Address' button to take them to the 'Add Delivery Address' page. In order to add a delivery address they must enter the address in the five text fields representing address lines 1 - 5, all five are recommended but only 1, 2, and 5 are required. Once the address has been entered click 'Add Delivery Address', in order to return to the 'Customer' home page (Fig. 5), click 'Return to menu', in order to return to the 'Checkout' page (Fig. 12), click 'Return to Checkout'.

Functionality - View previous orders

In order to view previous orders the user must first log in as a registered customer, then they must click the 'Previous Orders' button on the 'Customer' home page (Fig. 5), this will take the user to the 'Previous Orders' page:

Fig. 15 - View Previous Orders Page

Stumps

Previous Orders

Order ID	Title(s)	Author(s)	Publisher	Edition	Year of publication	Price	Copies	Status

From here the user can see all the orders they have previously made, they can also search for orders containing a specific book, and they can cancel orders that have not yet been dispatched. They can also click the 'Return to Home screen' button to return to the 'Customer' home page. Note there is now a text field and two buttons below the cancel order button that generates and hides a report on a specific order specified in the text field.

Functionality - View shopping basket

There are two ways for users to view their shopping basket (Fig. 11), in both ways, they must log in as a registered customer, and the quickest way from there is to click the 'Shopping Basket' button on the 'Customer' home page (Fig. 5). The other way is to click the 'Browse' button to navigate to the 'browse' page (Fig. 10), entering a title and/or author(s) and any possible filters before clicking the 'Browse' button to navigate to the 'browse' page (Fig. 11), from there clicking the 'Shopping Basket' button to navigate to the 'Shopping Basket' page (Fig. 12).

Functionality - Change the status of orders

In order to perform this functionality the user must first log in as a system administrator through the 'Login' button, which will take them to the 'Administrator' home page (Fig. 6). From here they should click the 'All Orders' button which will take them to the 'All Orders' page:

Fig. 16 - All Orders Page

Stumps

All Orders

Order ID	Title(s)	Author(s)	Publisher	Edition	Year of publication	Price	Copies	Status

Enter Order ID

View the order's status report

Enter Order ID

New status

Change order status

Title(s)	Author(s)	Copies	Status	Status Details

Return to Home screen

From here the system administrator can change the status of orders by entering the orders ID in the text field above the 'Return to Home screen' button and a new status for the order in the text field after the 'New status' label, and by clicking the 'Change order status' button.

Functionality - see reports on the status of orders

First, the user must log in as a system administrator through the 'Login' button, then from the 'Administrator' home page (Fig. 6), they must click the 'All Orders' button to navigate to the 'All Orders' page (Fig. 16), from where they must enter the ID of whichever order's status report they would like to see and then click the 'View the order's status report' button to look at the status report. A table will render at the bottom of the page which shows the status report.

Functionality - Finance reports

First, the user must log in as a system administrator through the 'Login' button, then from the 'Administrator' home page (Fig. 6), they must click the 'Finances Reports' button which will take the administrator to the 'All Finances Reports' page:

Fig. 17 - All Finances Reports

Stumps

All Financial Reports

Transaction ID	Transaction date	Price	Quantity of books purchased

Enter Transaction ID

Generate Report

Title	Author(s)	Price	Copies	Total price	Payment method	Status

Return to Home screen

Here the administrator can see all the transactions made on the system and filter the transactions by a range of dates using the start date and end date text fields, and by clicking the 'Search' button, the transactions have an ID, date, price, and quantity of books purchased. Transaction reports can be generated by entering the transaction's ID in the text field after the 'Enter Transaction ID' label and clicking the 'Generate Report' button. This will render the transaction report in a data table below.

Functionality - Log out

Users can log out of their accounts as registered customers and system administrators from the 'Customer' (Fig. 5) and 'Administrator' (Fig. 6) home pages respectively. Both home pages have a 'Log out' button that will return the user to the logged out 'Home' page (Fig. 3).