

- Admin

“View all books with all their attributes sorted ascending by their prices.”

An admin is able to view all the books and their attributes, however they are not sorted by price.

- Customer

1. “View all books with all their attributes sorted ascending by their prices.”

Likewise with the admin the customers are able to view all the books but not sorted by price.

2. “Pay for all items in the basket by choosing from the following payment methods
  - a. \* PayPal in which the customers need to enter their PayPal email address
  - b. \* Credit Card in which the customers need to enter a 6 digits card number and 3 digits security code The pay function will display a different message on the screen based on the chosen payment method as follows:
  - c. \* For PayPal, the message should be "amount+ paid using PayPal".
  - d. \* For Credit Card, the message should be "amount+ paid using Credit Card". + In the above messages, "amount" must be replaced by the numeric value of the total payment amount. This transaction must make the basket empty as well.”

The customer is able to select between PayPal and using a Credit Card, the payment method specific message does not occur, nor does the amount paid.

3. “Cancel their shopping basket which empties out the entire content of the basket (see how the system must log this activity in the Activity Logging paragraph).”

The customer is able to empty their shopping basket, however the system does not log this.

4. “Search ... Displays a list of all books on the screen can be filtered by
  - a. \* genre, and/or
  - b. \* audiobook with listening length greater than 5 hours (all book details must be displayed)”

The user is not able to use any search functionality whatsoever.

5. “The system must log these customer activities: pay and cancel, in a file as follows:

Activity Logging:

- a. \* After the completion of the above activities (pay or cancel), for each item previously in the basket, a new line must be added to the log file (see Appendix C) with these parameters: user ID, postcode, ISBN, price, quantity of item, payment method (only for pay activity), status (either purchased or cancelled) and date. The date format is dd-mm-yyyy, e.g. 13-02-2021 for the 13th February 2021, and it should show when the record is logged. The records in the log file must be in descending date order. The program should be able to avoid and detect errors. Examples: (i) The customers should be notified if they want to buy an item that is out of stock. (ii) Books with a same ISBN must not be added more than once.

The system is not able to log these, at least properly, and no input reformatting takes place.