Cricket bookshop

Introduction

The Aim

To design and implement an online shopping service for a bookshop that specialises in cricket where customers are able to make an account and make purchases and administrators can manage these orders. Users

User requirements

Requirement number	Requirement name	Description	Priority
1	Sign up	The User should be able to sign up to the website using the following data: Their name, password, email, delivery address and payment information	1
2	Log in	Provided the user has made an account, they should be able to log into the site using their email address and their password.	1
3	Search	The user should be able to be able to search for the name of a book so that they can either view or buy it.	1
4	Add to basket	Once the user has found a book that they would like to purchase, they should be able to add it to their basket through the click of a button.	1
5	Checkout process	The user should be able to enter in their card information and delivery address at the checkout when completing an order.	1
6	Viewing all past orders	The user should be able to view all of the orders that they have previously made in the form of a list where the most recent order is at the top.	1
7	Searching for a past order	The user should be able to search through their past orders using key words relating to a book within that order.	1
8	Cancelling an order	Once a user has searched and located an order, they should be able to click a button to cancel that order.	2
9	(Admin) Viewing orders	Similarly to the user, an admin should be able to view orders however they should be able to view every user's orders.	1

10	(Admin) Changing order status	An admin should be able to change the status of a user's order i.e. from 'processing' to 'shipped'.	1
11	(Admin) Order reports	An admin should be able to view a report on the status of all user orders	2
12	(Admin) Financial report	An admin should be able to input two dates and then view a financial report of between these two dates.	2

Functional requirements

Requirement number	Requirement name	Description	Priority
1	Sign up	The system should take input from the following data from the user: Their name, password, email, delivery address and payment information and create a user information table in the database and then add this new information to the relevant tables. If either the information that is being entered is already associated with or account or some of the data entered is not valid, then an error message should be shown and an account will not be created for that user.	1
2	Log in system	When the user is trying to log in, the system should take the data from the user and then run queries on the database to see whether or not the requested account exists. If so, then access should be granted to the checkout and if not, then an error message should be displayed or the user will be prompted to create an account.	1
3	Search algorithm	When the user perform a search request, the input should be taken and then the relevant database will be queried. After this, if there are any results that match the users request, they should be displayed in the form of a list with all of the relevant metadata associated with each of the results. If there are no results then the user should be notified of this.	1
4	Filter list	Alongside the search algorithm, there could also be a list of filters that the user could use as an alternative search method. If selected then the information relevant to the user's selection will be filtered out of the search result on the database.	2
5	Add to basket	When the user has found a book that they would like to add to the basket, when the "Add	1

		to basket” button is activated, then the relevant information should be stored within a multidimensional array so that when it comes to checkout, if is more than one item required then each of the items in the array can be accounted for.	
6	Checkout process	The system should calculate the price of the current logged in user’s basket and then take in the relevant card information and delivery address for that user. If the payment is successful then the books that were purchased should be dropped from the stock database and be added to the current orders database.	1
7	Viewing all past orders	When the user requests to see their past orders, the system should query the orders database for that specific user and then return all of their orders with the most recent being shown first	1
8	Searching for a past order	The system should allow for a user to search for a past order by entering in one of the names of the books that was within that order. If the search was valid, then the system should return the entirety of that order to the user in the form of a list. If there was no order that fulfilled the criteria of the user’s search then an error message should be displayed to the user.	1
9	Cancelling and order	If a user does view their past orders, the system should provide an option in the form of a button to cancel the order. If the user selects this option then the system should drop that entry from the relevant table. If however the order has already been dispatched, then the system should not allow the user to do so and inform them of the reason.	2
10	(Admin) Log in	If a user logs in and their account has the authorisation of admin, then special access should be granted by the system.	1
11	(Admin) Viewing orders	If an account with the status “admin” requests to view all past orders then the system should display all orders from all users and their status. If the account does not have the correct authorisation then access should not be made available by the system.	1
12	(Admin) Changing order status	When an admin is viewing all orders, the system should check their authorisation status and if correct then provide an option to edit the status of an order. If not then this option should not be made available	2

13	(Admin) Order reports	If an account with the status “admin” requests to view an order report then a report of all of the order statuses.	3
14	(Admin) Order reports	If an account with the status “admin” requests to view an financial report the system should ask the admin for two dates (a start and an end date) and then the system should generate a report of all the financial in and outgoings and display this report the user.	3

Non-functional requirements

Number	Requirement	Description	Priority
1	User interface	The UI must be clear and easy to understand.	1
2	Speed/Performance	The user should not experience noticeable wait times i.e. when a database is being queried.	1
3	Security	The user’s should be able to trust that their sensitive data will be kept private and protected.	1
4	Storage	The site should be able to handle and store data successfully and efficiently.	1
5	Consistency/Reliability	The user should be able to place confidence in the site that it will stay active and online.	2
6	Compatibility	The website should be able to be accessed from different devices and on different browsers.	2