Use Cases

for

<usedbooks.com >

Version 1.1 approved

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<7.1>

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| 雷艺湧 | 6.30 | 完成use case list | 1.0 |
| 雷艺湧 | 7.1 | Use case list 优化、完成use case template | 1.1 |

Use Case List

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| Primary Actor | Use Cases |
| Students | 1. Register |
|  | 1. Log in |
|  | 1. Reset password |
|  | 1. Search for textbooks |
|  | 1. Purchase textbooks |
|  | 1. Post textbooks for sale |
|  | 1. Post textbooks in need |
|  | 1. Leave feedback |
| Administrator | 1. Log in |
|  | 1. Search for textbooks |
|  | 1. Check the transaction volume |
|  | 1. Check the number of transactions |
|  | 1. Check how many textbooks are for sale |
|  | 1. Check the number of users |

Use Case Template

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| --- | --- | --- | --- |
| UC ID and Name: | UC-6 Post textbooks for sale | | |
| Created By: | 雷艺湧 | Date Created: | 7.1 |
| Primary Actor: | Students | Secondary Actors: | Administrator |
| Trigger: | Student decides to sell textbooks | | |
| Description: | Students click on Post a request for sale of used books and fill in information such as: used book name, major, course, time of purchase, whether there are notes, price and minimum price. | | |
| Preconditions: | 1. The student must be registered and logged into the web 2. The student must have the textbook available for sale | | |
| Postconditions: | 1. The textbook is listed for sale on web 2. Potential buyers can see and search for the listed textbook | | |
| Normal Flow: | 1. The student logs into the platform. 2. The student navigates to the "Sell Textbook" section. 3. The student enters the details of the textbook (e.g., title, author, condition, price). 4. The student uploads a photo of the textbook. 5. The student submits the listing. 6. The system confirms the listing and makes it visible to potential buyers. | | |
| Alternative Flows: | If the student does not provide all required information, the system prompts the student to complete the missing details. | | |
| Exceptions: | If there is a system error while submitting the listing, the system notifies the student and logs the error for admin review. | | |
| Priority: | High | | |
| Frequency of Use: | Multiple times per semester | | |
| Business Rules: | Listings must be reviewed by an administrator before becoming visible to buyers. | | |
| Other Information: | N/A | | |
| Assumptions: | 1. The student has the textbook in a sellable condition. 2. The platform supports image uploads | | |

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| UC ID and Name: | UC-5 Purchase textbooks | | |
| Created By: | 雷艺湧 | Date Created: | 7.1 |
| Primary Actor: | Student(seller) | Secondary Actors: | Student |
| Trigger: | Student selects a textbook to purchase. | | |
| Description: | Students select the book they want to buy, click Buy, and pay for the order | | |
| Preconditions: | 1. The student must be registered and logged into the platform. 2. The textbook must be listed as available for purchase | | |
| Postconditions: | 1. The student successfully purchases the textbook. 2. The transaction is recorded in the system. 3. The textbook inventory is updated. | | |
| Normal Flow: | 1. The student searches for a textbook. 2. The student selects a textbook from the search results. 3. The system displays the textbook details, including price and other information. 4. The student clicks on the "Purchase" button. 5. The system prompts the student to enter payment information. 6. The student enters payment information and confirms the purchase. 7. The system processes the payment through the payment gateway. 8. Upon successful payment, the system confirms the purchase to the student. 9. The system updates the textbook's status to "Sold". 10. The system sends a notification to the seller. | | |
| Alternative Flows: | If the student's payment is declined due to insufficient funds, the system notifies the student and prompts to enter a different payment method. | | |
| Exceptions: | If there is an error with the payment gateway, the system notifies the student and logs the error for admin review. | | |
| Priority: | High | | |
| Frequency of Use: | Multiple times per semester | | |
| Business Rules: | 1. All payments must be processed securely. 2. The platform must comply with relevant e-commerce regulations. | | |
| Other Information: | N/A | | |
| Assumptions: | 1. The payment gateway is functional and reliable. 2. Textbook inventory is accurately maintained. | | |

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| UC ID and Name: | UC-7 Post textbooks in need | | |
| Created By: | 雷艺湧 | Date Created: | 7.1 |
| Primary Actor: | Student | Secondary Actors: | Administrator |
| Trigger: | Student wants to buy a textbook that is not currently listed on the platform. | | |
| Description: | Users publish the textbooks they need and the prices they can give | | |
| Preconditions: | 1. The student must be registered and logged into the platform. | | |
| Postconditions: | 1. The request for the textbook is posted on the platform. 2. Potential sellers can see the request and respond if they have the textbook. | | |
| Normal Flow: | 1. The student logs into the platform. 2. The student navigates to the "Request Textbook" section. 3. The student enters the details of the textbook they want to purchase (e.g., title, author, edition) and price he can offer. 4. The student submits the request. 5. The system confirms the request and makes it visible to potential sellers. | | |
| Alternative Flows: | If the student does not provide all required information, the system prompts the student to complete the missing details. | | |
| Exceptions: | If there is a system error while submitting the request, the system notifies the student and logs the error for admin review. | | |
| Priority: | Medium | | |
| Frequency of Use: | Occasionally, when textbooks are not listed | | |
| Business Rules: | Requests must be reviewed by an administrator before becoming visible to sellers. | | |
| Other Information: | N/A | | |
| Assumptions: | There are students willing to sell textbooks that are not currently listed. | | |