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| --- | --- | --- | --- |
| Use Case Name: **search and browse** | ID: uc1 | Priority: high | |
| Actor: borrower | | | |
| Description: this describe how to check out and return books | | | |
| Trigger: borrower wishes to check out or return book  Type: external | | | |
| Major steps performed: borrower presents book to check out. ID is checked for validity against valid borrower file overdue books and fines are checked if ok is lent to borrower  Borrower returns book . Book is removed from a borrowed file and return to holdings. If overdue , book is removed from overdue file | | | Information for steps :  Book to check out borrower id  Validation information  Overdue books info  Fines due info  Borrowed book info  Return book  Borrowed book info  Borrowed book info change  Returned book info change  Overdue file statues |
| Major input :  **Description source**  Book to check out borrower  Borrower id borrower  Validation info valid borrower file  Overdue book info overdue file  File due info fines file  Retuned book borrower | | | Major output  **Borrowed book info change**  **Returned book info changed**  **Overdue statues** |

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| --- | --- | --- | --- | --- |
| **Use Case Name**: reservation | **ID**: uc-2 | **Priority**: medium | | |
| Actor: This use case describes the Tune Buyer’s reserve selected items | | | | |
| Description: the customer wants to buy the item that he chosen | | | | |
| Trigger: customer has placed one or more item in a shopping cart  Type: external | | | | |
| Preconditions: One or more item are in a shopping cart | | | | |
| Normal Course: the  System displays shopping cart contents with prices of each item  System collects customer information  System collects payment information  System obtains payment authorization  System confirms payment acceptance  System notify market | | | <=Shopping cart contents  <= customer information  <= payment information  <= items information | |
| Postconditions:  Shopping cart is empty  Items sales transaction is recorded | | | | |
| Summary inputs  Shopping cart contents  Payment Information  Payment authorization  Payment confirmation | | | | Source  Shopping cart database  Customer  Payment Clearinghouse  customer |

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| **Use Case Name**: notifying market | **ID**: uc-7 | **Priority**: high | | |
| Actor: customer | | | | |
| Description: This use case describes the notifying market process | | | | |
| Trigger: customer reserve an item  Type: external | | | | |
| Normal Course:  System will send a notification to the market | | | <= customer information  <= market information  <= items information | |
| Summary inputs  customer information  market information  items information | | | | Source  Customers Database  Markets database  Shopping cart database |