UML-Based Statistical Test Case Generation

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Name	Lend a book
Goal	Lend a book to a user of this library for a limited time.
Actors	Librarian
Preconditions	Library system is running. The user is valid to the library
Postconditions	The book was lent to the user. A due date for return is defined.
Invariants	None
Main Success scenario	 The librarian opens the user selection dialog with selected user. He opens the lending dialog for selecting a book, a return date is shown. He confirms the operation. The book is marked as lent, the <i>lent-book-list</i> of the user is updated.
Variations	None
Extensions	 2a) User has to pay a fee or a fine. 2a1) Message: no lending allowed 2a2) Successful - return to lending dialog. 2a3) Not successful - return to new user selection 2b) The book of interest is already lent or is for reference only. 2b1) Message - return to book selection 3a) Cancelled by librarian 3a1) Return to book selection.
Included use cases	Display books lent by a user; Collect payment from a user.





















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Instance:	(NONE) Manage
P Main : P * P * P * P * P * P *	iscenario: Customer withdraws an amount of money entered by him/her. 1: Call of use case CheckPIN: The user authenticates himself/herself via his/her PIN. #0: scenario for terminal: at #0.0.0.0.00: Customer failed to enter valid PIN.
<u>B</u> rief:	Withdrawal of money from the customer's account.
	This use case describes how a customer withdraws money from his/her account.
<u>G</u> oal:	
<u>G</u> oal: <u>P</u> re-condition	There is a debit card inserted in the ATM machine, and the user is known to the system to have entered a valid PIN.







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