Istanbul Technical University Faculty of Computer and Informatics



BLG468E Object Oriented Modeling and Design Assignment 1

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Use Case: Using Loan Service With Self-Check Stations	
ID	UC-1
Version	1.0
Scope	Library Automation Software
Primary Actors	Borrowers (Academic personnel or Undergraduate
	Students)
Stakeholders and Interests	Borrowers:
	Want fast, easy borrowing operations.
	Want to perfom borrowing in any time of the
	day Library Circulation Desk:
	Wants accurate borrowing operations.
	Wants logs about the borrowing
Preconditions	Borrower has the material
Postconditions	Material is borrowed to borrower
	Operation is logged
Basic Flow	Borrower arrives to the self-check station
	2. Borrower reads his/her ID card to station
	3. Borrower enters his/her library ID
	4. System confirms that borrower can proceed
	to borrowing operation
	5. Borrower reads the barcode of the material to
	the system
	6. System shows information about material
	(material name, type, year, author)
	7. System shows that material is avaible
	8. System presents two options: borrow –
	cancel.
	9. Borrower selects borrow
	10. System logs the operation
	11. System shows information about borrowing
	12. System prints a receipt which consists
	borrowing information
	13. Borrower leaves with the receipt
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Alternative Flows	2a. Card error (invalid, damaged, wrong card)
	1. System signals error
	System cancels the operation
	3a. Invalid ID
	1. System signals ID error
	Borrower enters pin again
	2a. Pin is correct
	1. System continues 3 in basic flow
	2b. Pin is incorrect
	System cancels the operation

	4a. System results that borrower cannot proceed
	(borrower exceeds limits, borrower has an
	overdue material)
	System signals borrowing rule error
	2. System cancels the operation
	5a. Barcode error (invalid barcode or cannot read barcode)
	System signals barcode error
	2. System cancels the operation
	7a. System shows that material is unavaible
	System signals material error
	2. System cancels the operation
	9a. Borrower selects cancel
	1. System cancels the operation
	10a. System cannot logs the operation
	1. System signals borrowing error
	System directs borrower to circulation desk
	3. System cancels the operation
	12a. System is out of paper
	System signals paper error
	Attendant replaces paper
	3. System continues 12 in basic flow
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	Touch screen for interactions in user interface
Special Requirements	RFID card reader for reading ID cards Barcode scanner for reading material barcode
	Printer for printing receipts
	Network connection for logging
	*a. Normal screen for user interface and buttons for borrow – cancel options
Technology and Data Variations List	2a-3a. Borrower card/library ID is entered with keyboard
	5a. Material barcode number is entered with keyboard