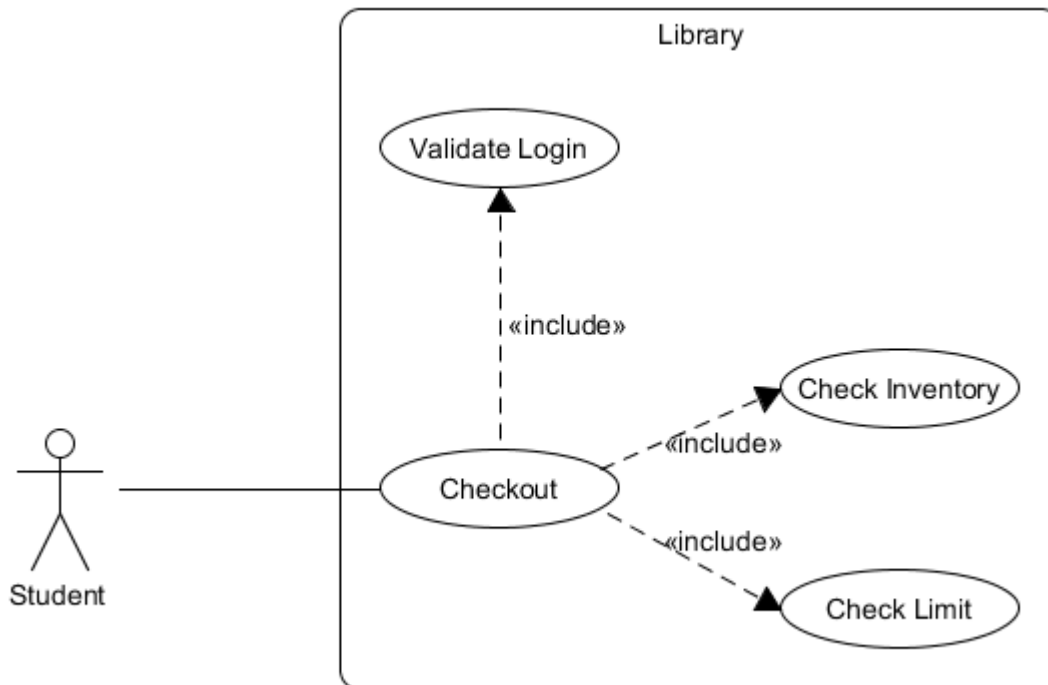


Library Management System – Extra Credit

Gaurav Shukla

The Use case elaborated in this document is Checkout function for a book. It involves the process of validation, verification and notification involved during the checkout functionality. The use case assumes you have searched and selected the book to be checked out, it performs check on inventory and book limit before sending an automated email with date of return.



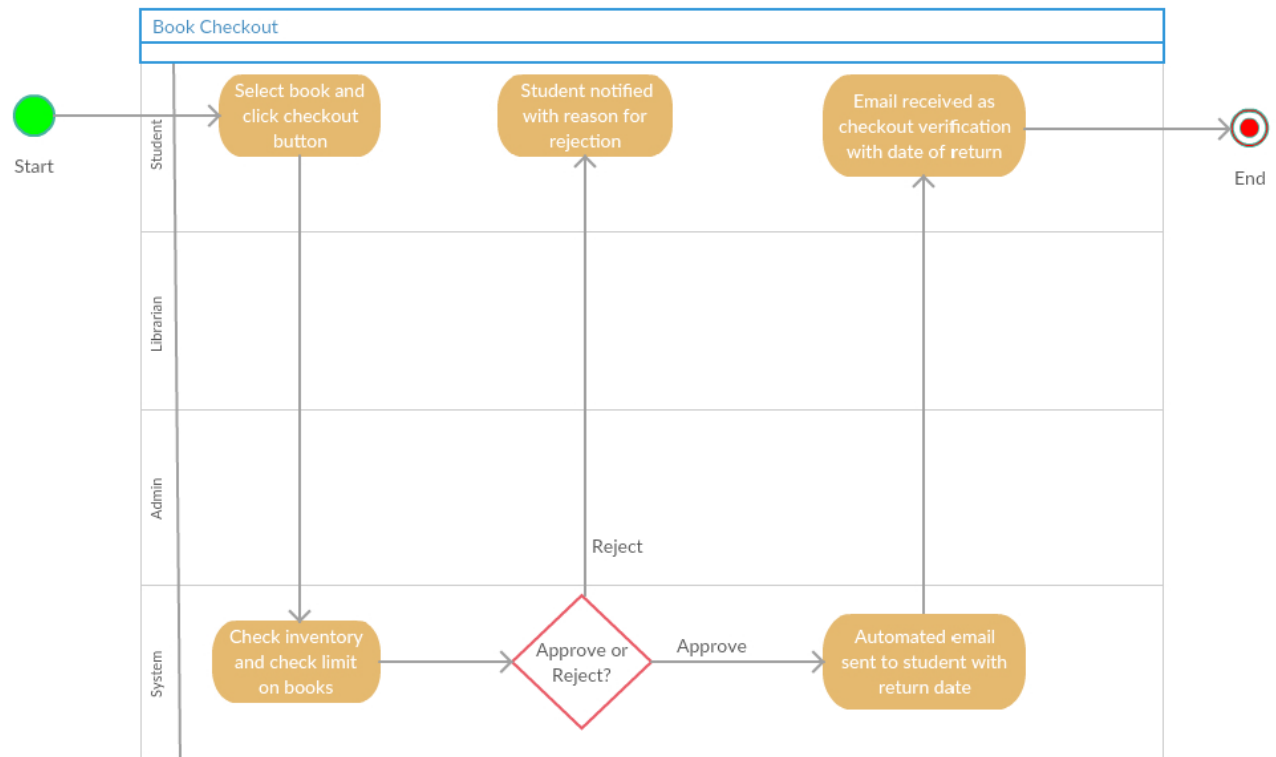
Use Case name	Checkout Book
Participating actors	Initiated by Student
Flow of Events	1. Student selects a book and clicks the checkout button 2. System performs a check on inventory and checkout limit 3. System notifies the Student of any problem (if any exists) 4. System emails the student with the checkout verification and return date
Entry Conditions	Student is logged into LibraryManagementSystem and found book to checkout
Quality Conditions	Student is informed of checkout status and emailed with date of return

Related Use Case Documents:

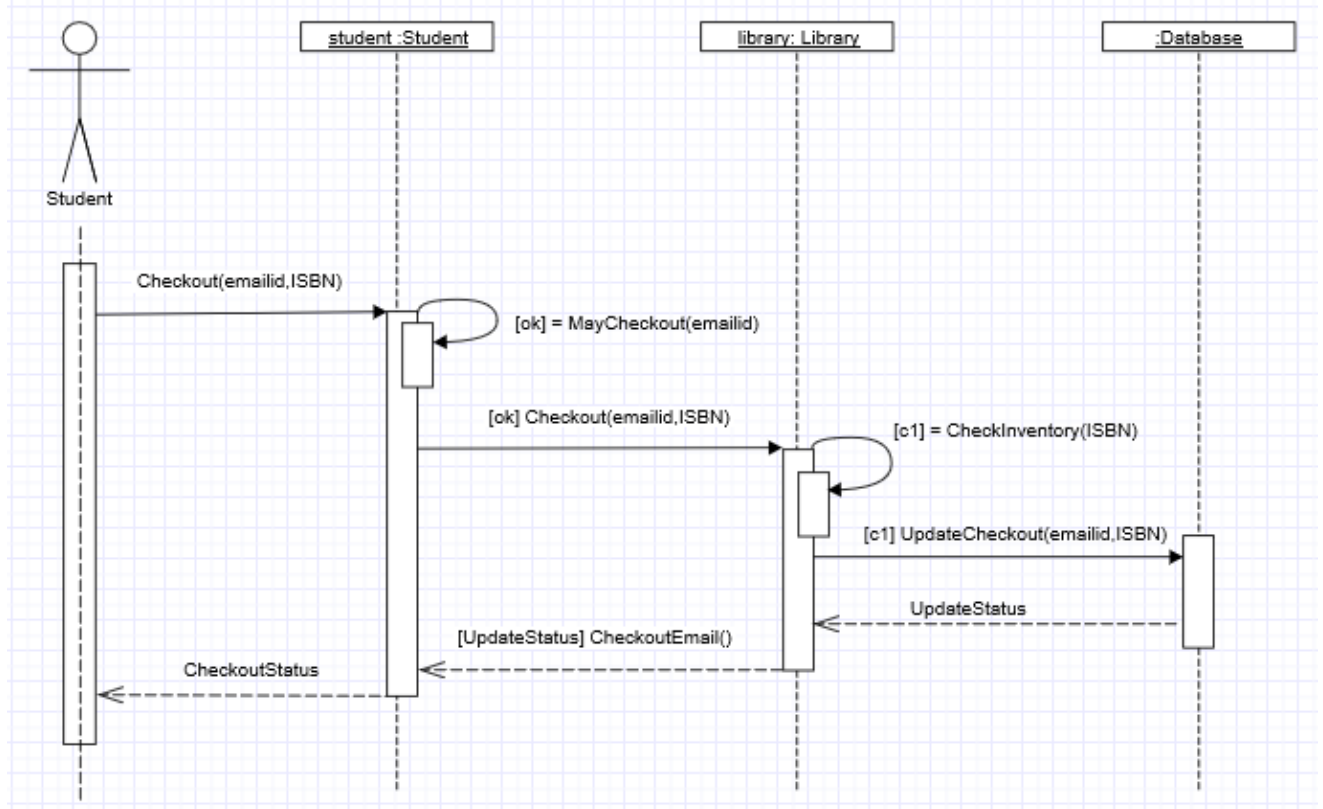
<i>Use case name</i>	Login System
<i>Participating actors</i>	Initiated by Librarian/Administrator/Student
<i>Flow of events</i>	1. User enters login information
	2. User hits submit button
<i>Entry Conditions</i>	N/A

<i>Use Case name</i>	Search Book
<i>Participating actors</i>	Initiated by Student
<i>Flow of Events</i>	1. Student logs into the System
	2. Student searches for book by category
	2a. Search by Title
	2b. Search by Author
	2c. Search by ISBN
	3. System returns the search result
<i>Entry Conditions</i>	Student is logged into LibraryManagementSystem
<i>Quality Conditions</i>	System returns the search result

Activity Diagram



Sequence Diagram



Class Diagram

