

Object Oriented Software Design - CS2062  
Group Project  
Assignment 1

**Team 10 - Deck of Aces**

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## **Project Description**

### **Project Theme:**

To build a virtual library platform to facilitate the readers who have been stuck at home in this pandemic times.

### **Description:**

Readers can subscribe to the platform, request books to read either by looking at the books available or by searching for a specific book. They can add books to their favorites list. Once a reader has finished reading a book, it will be added to his finished books list and he can view his favorites list, finished books list any time. Readers as well as the librarian can buy books for the library. Librarian can also add books to the library. System notifies readers to renew their subscription once a year. Reader can decide to renew or cancel the subscription. Readers also can request unavailable books. Those requests will be notified to the librarian once every week by the system.

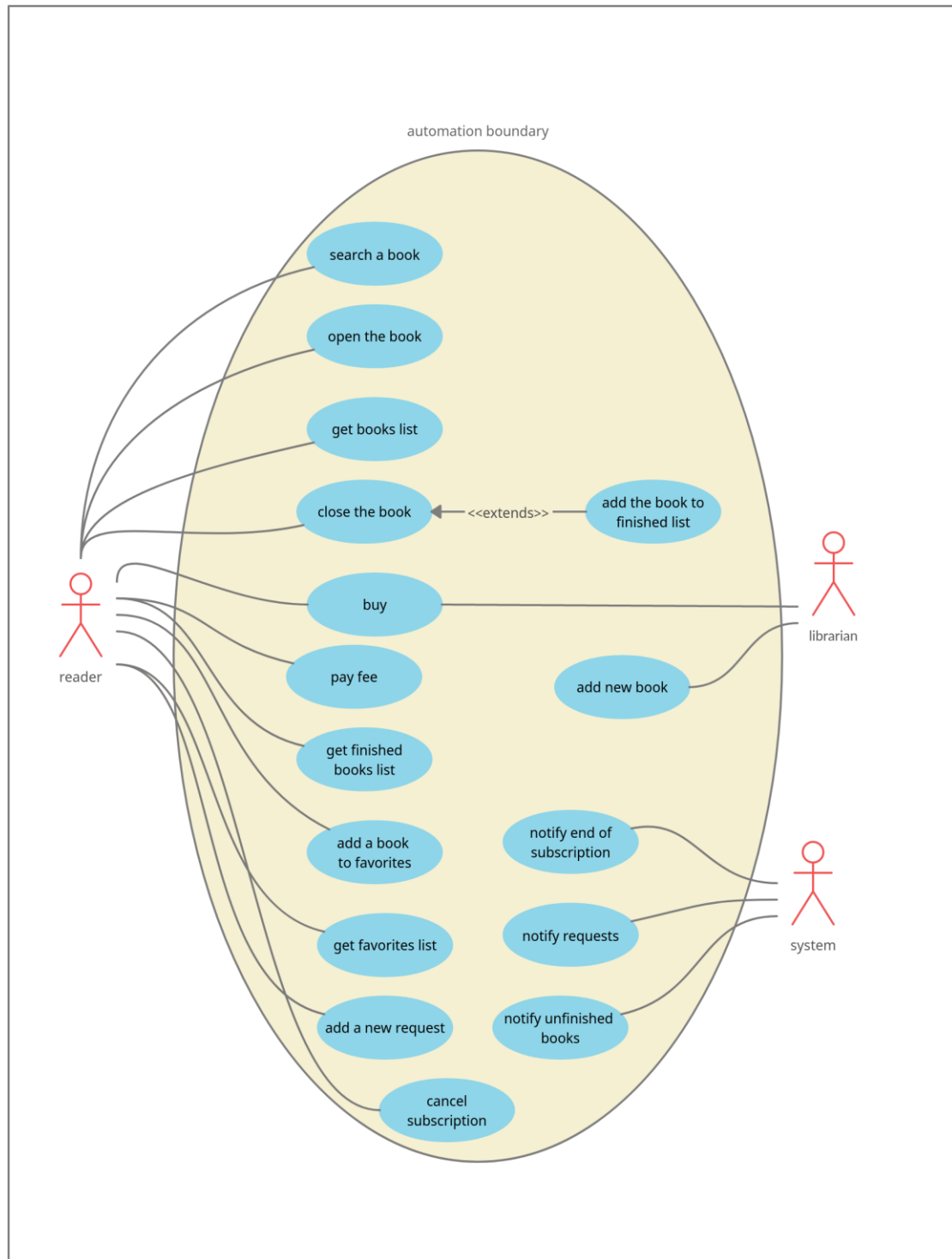
### **Assignment:**

Event table, use case diagram and activity diagrams for the above scenario are provided below.

## **Event Table**

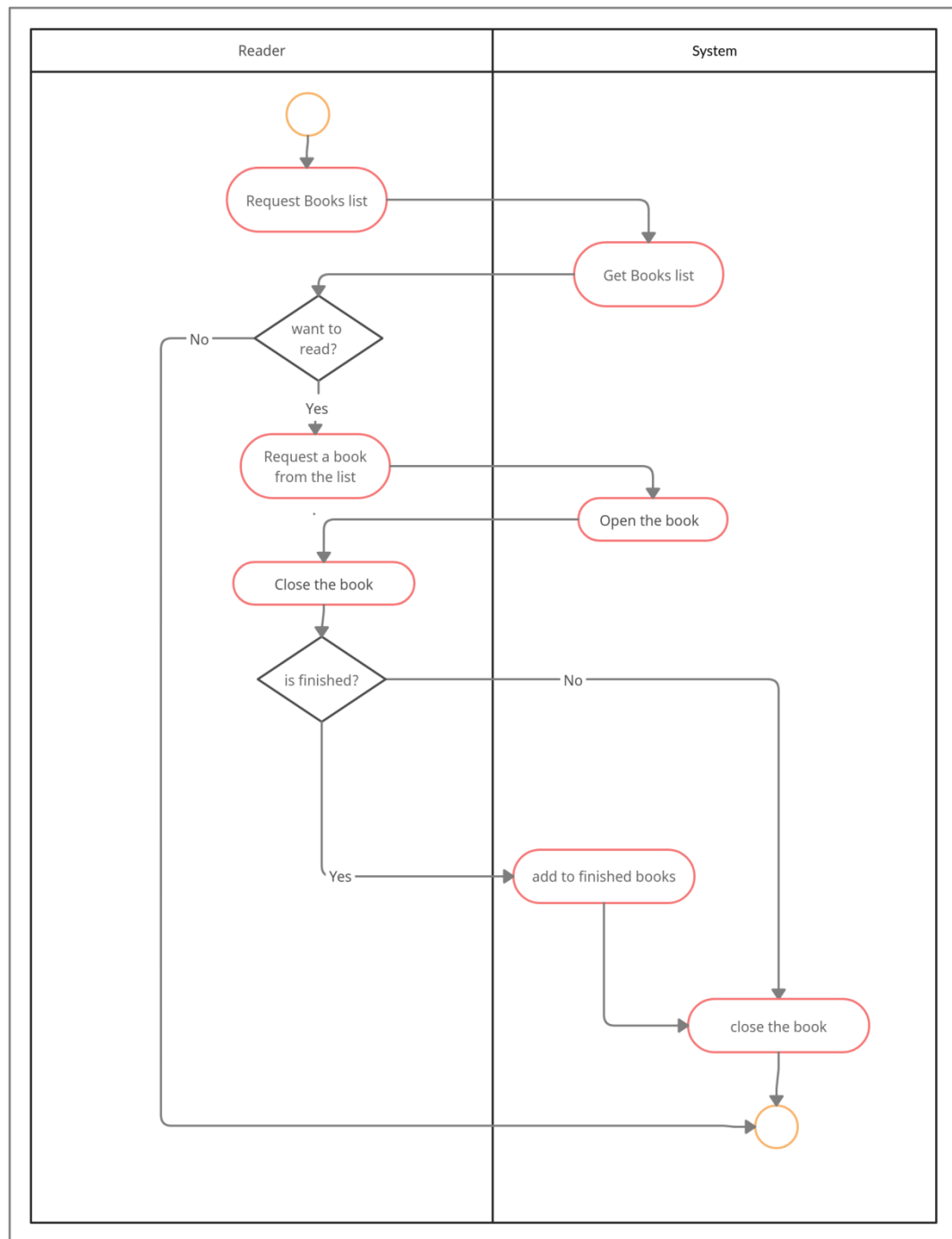
Event	Trigger	Source	Use case	Response	Destination
reader wants to view the books list	request of books list	reader	get books list	books list	reader
reader wants to search a book	name of the book	reader	get the book	book	reader
reader wants to open a book to read	request of the book	reader	open the book	book	reader
reader wants to mark a book as read	request to finish	reader	close the book		
reader wants to return a book without finishing	request to return	reader	close the book		
reader wants to pay annual fee	card details	reader	pay fee		
reader wants to cancel the subscription		reader	unsubscribe		
reader wants to view the list of the books he read	request of profile	reader	get finished books list	books list	reader
reader/librarian wants to buy a book for library	book details, card details	reader/librarian	buy a book		
librarian wants to add a new book	book details	librarian	add new book		
system wants to notify the reader about unfinished books once every month	a month passes from last check	system	notify unfinished books	notification details	reader
system wants to notify a reader when his subscription expires (once every year)	a year passes from subscription paid	system	notify end of subscription	notification details	reader
reader wants to add a book to favorites list	book details	reader	add book to favorites		
reader wants to view his favorites list	request of profile	reader	get favorites list	favorites list	reader
reader wants to request an unavailable book	book details	reader	add a new request		
system checks for book requests once every month	a month passes from last check	system	notify requests	request details	librarian

## Use Case Diagram

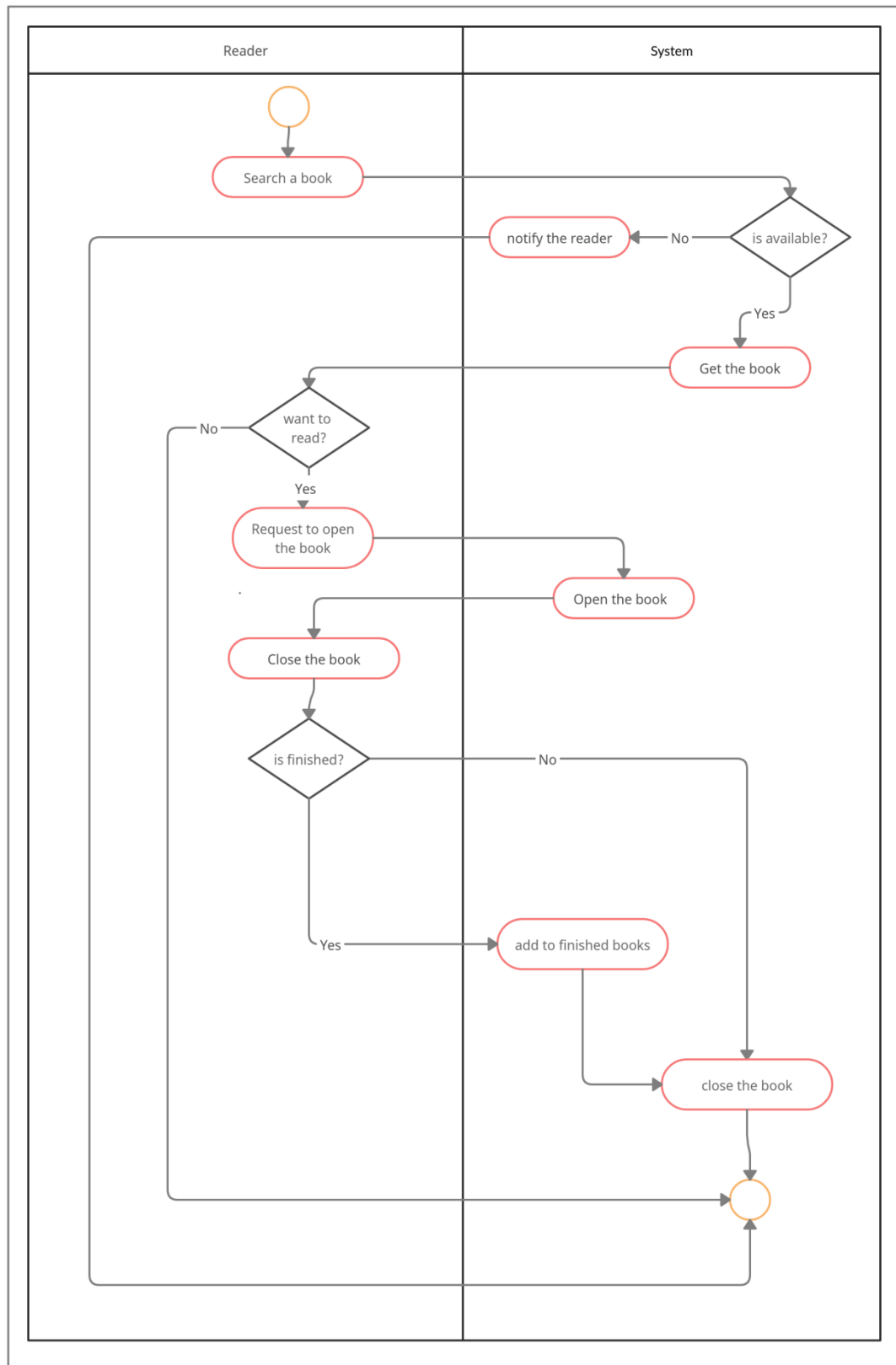


## Activity Diagrams

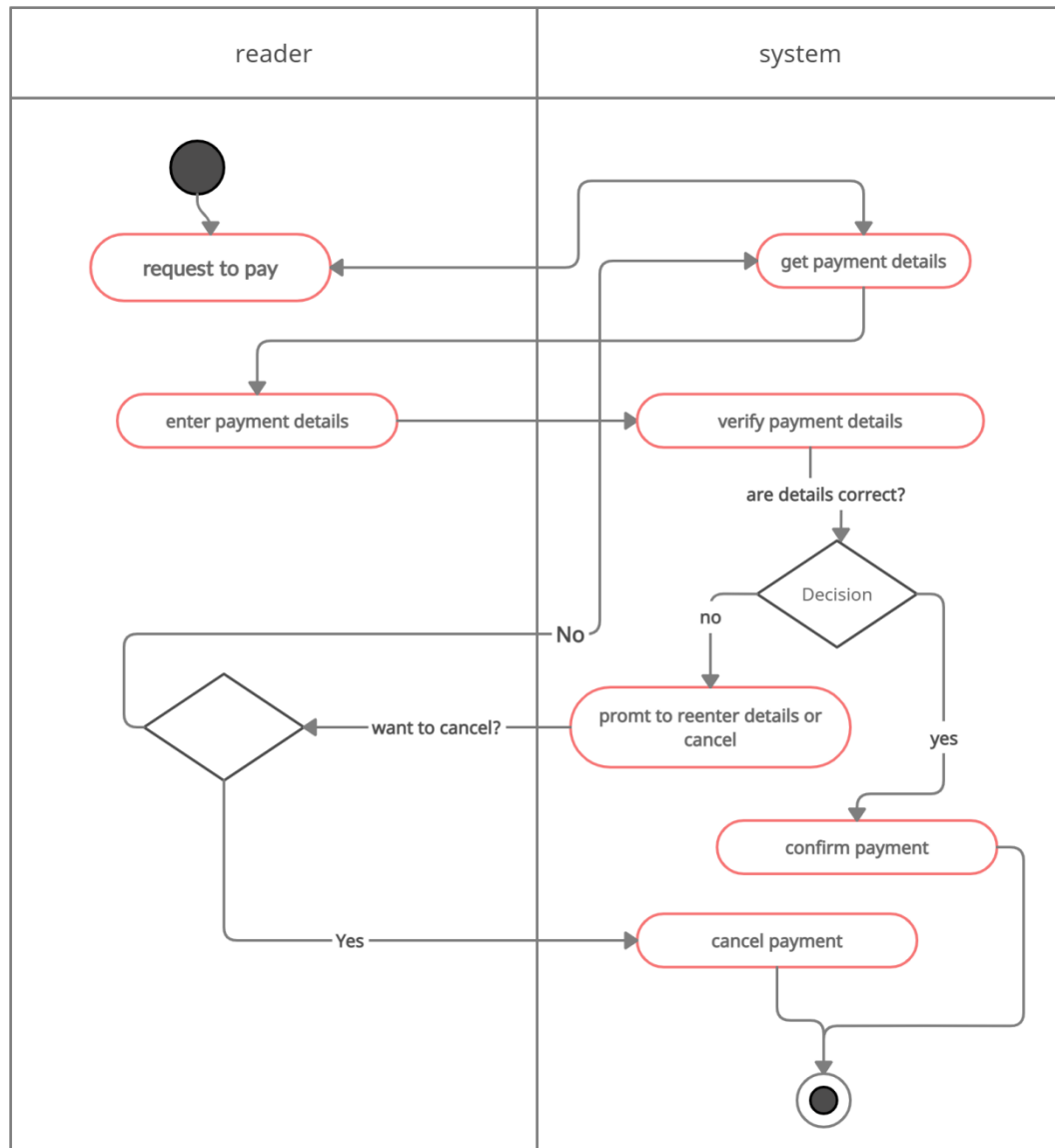
By Akila



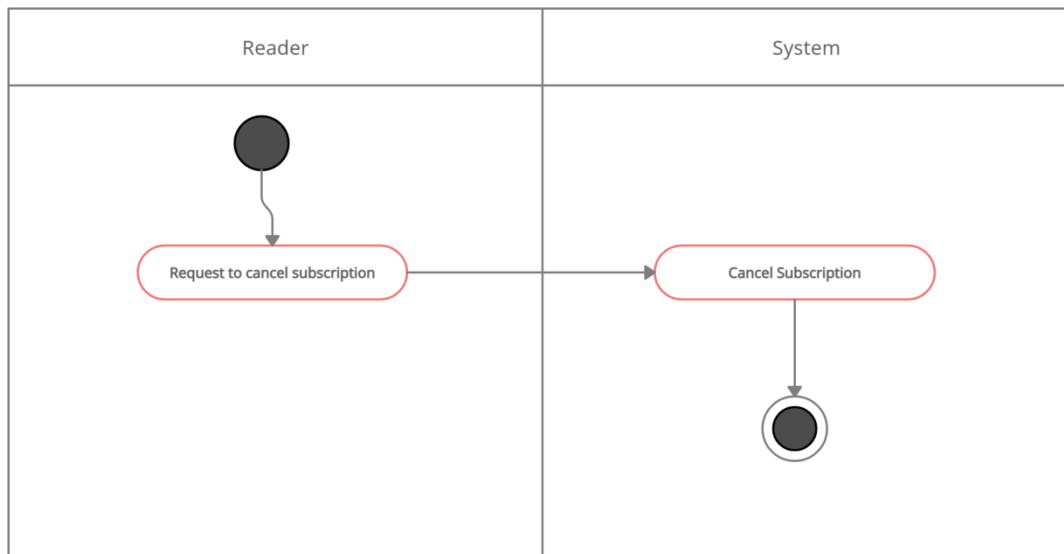
By Akila



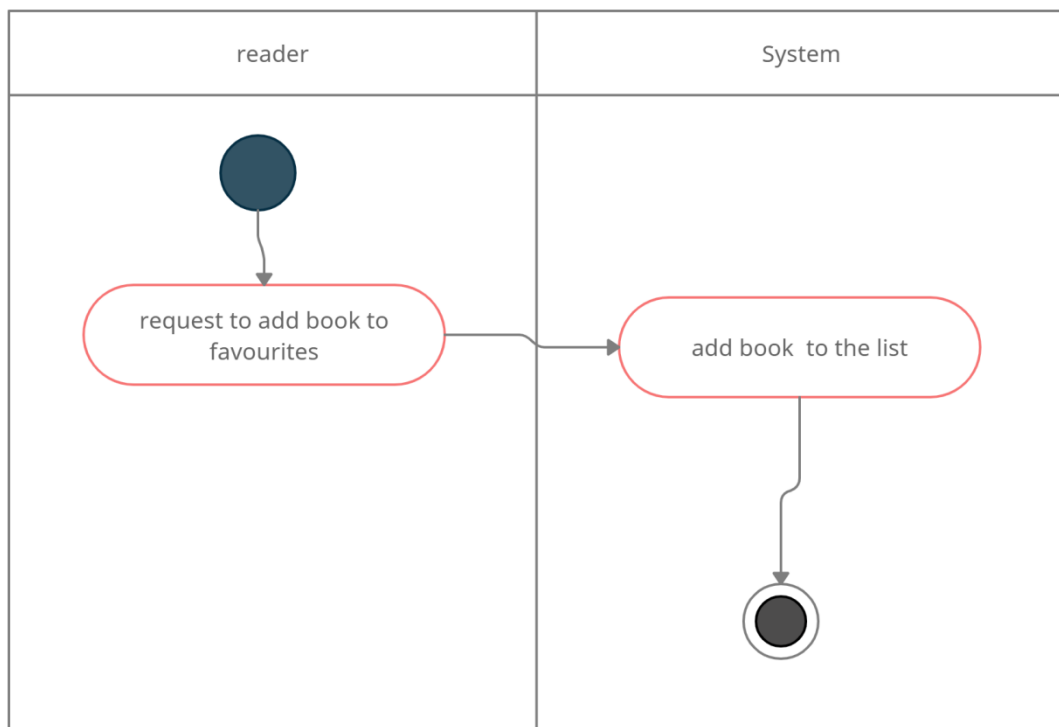
By Samadhi



By Samadhi

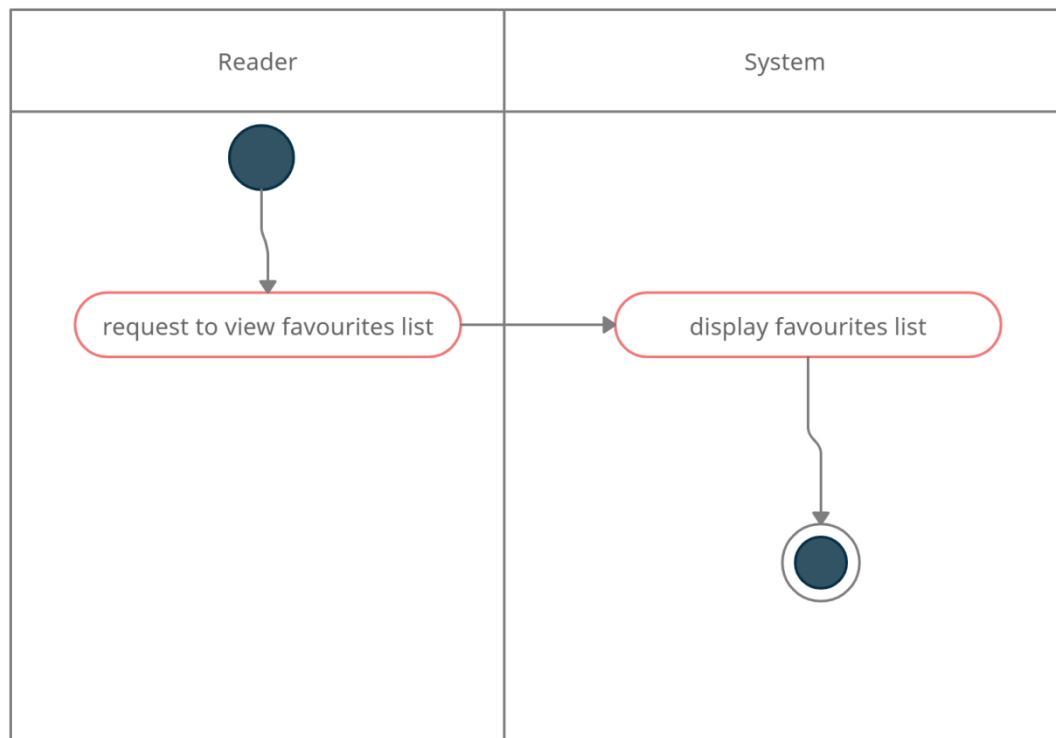


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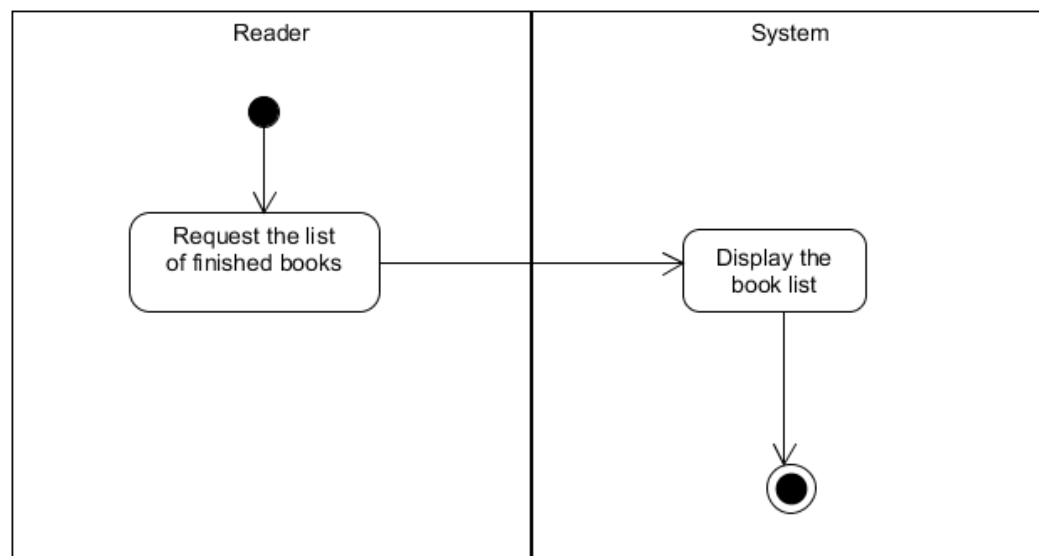




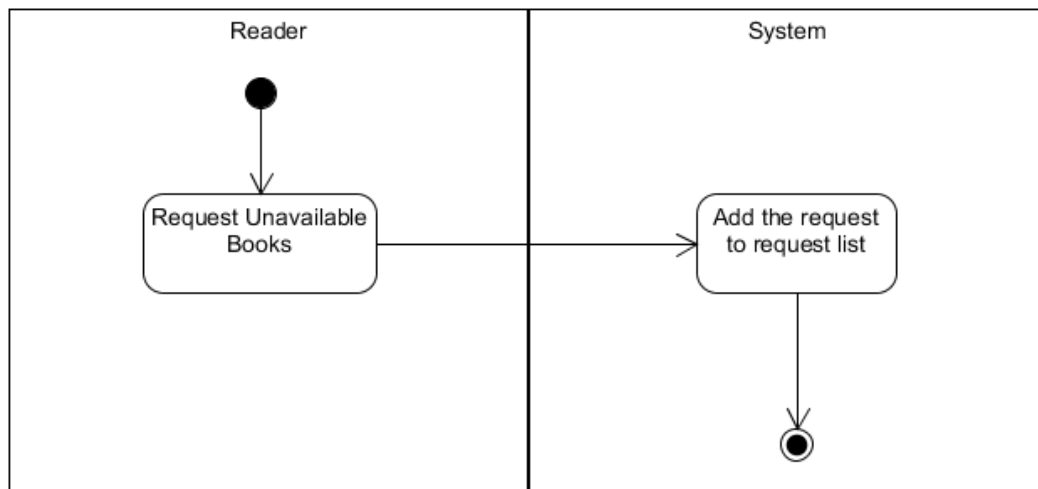
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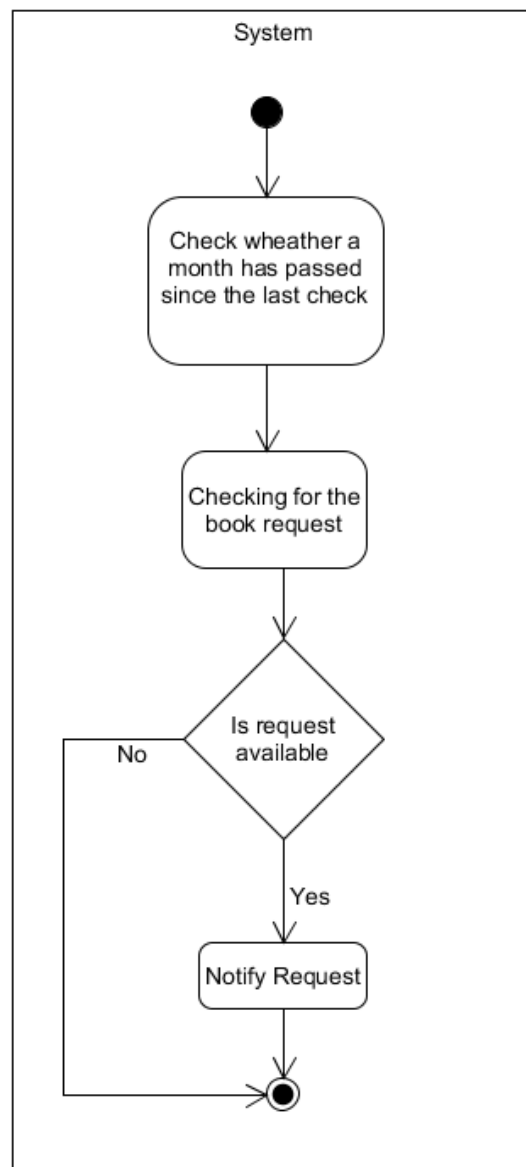
By Bhanuja



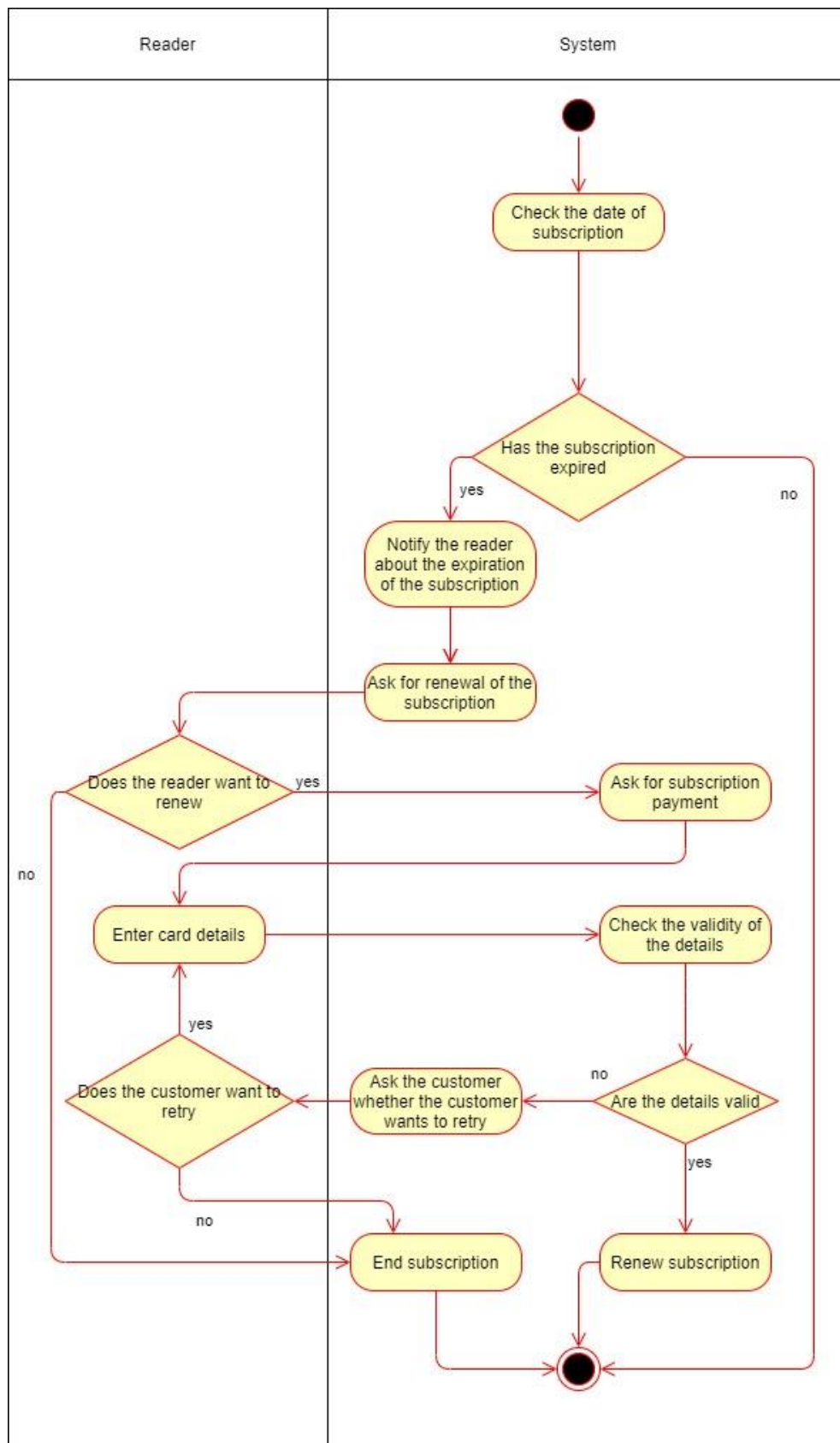
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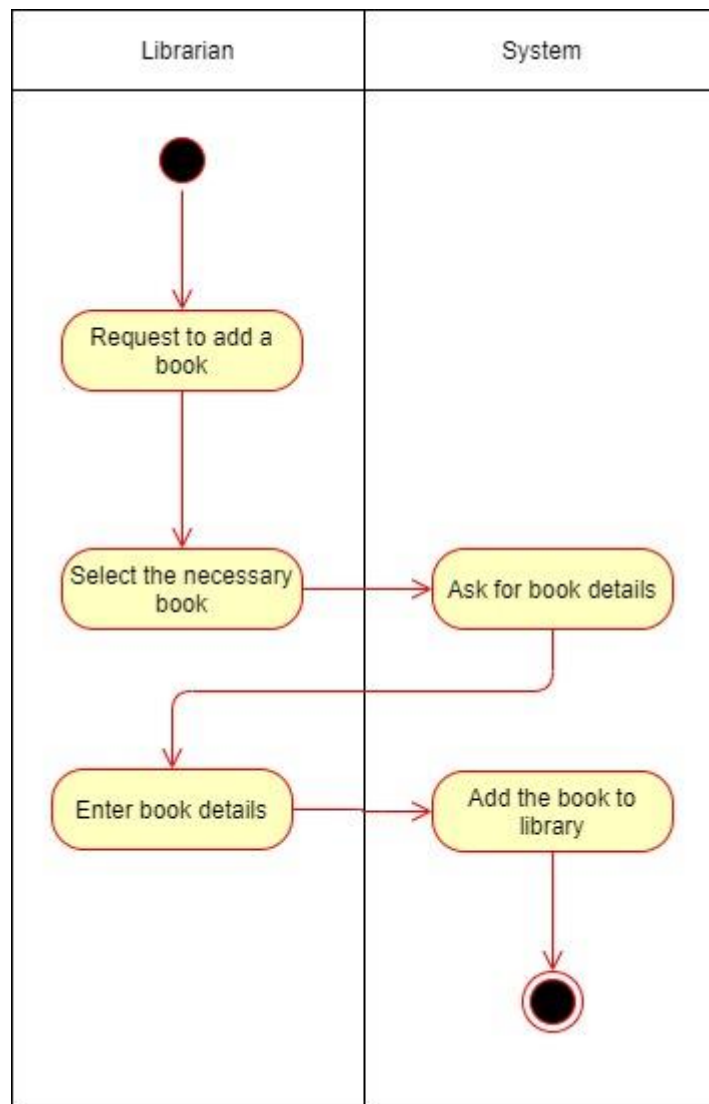
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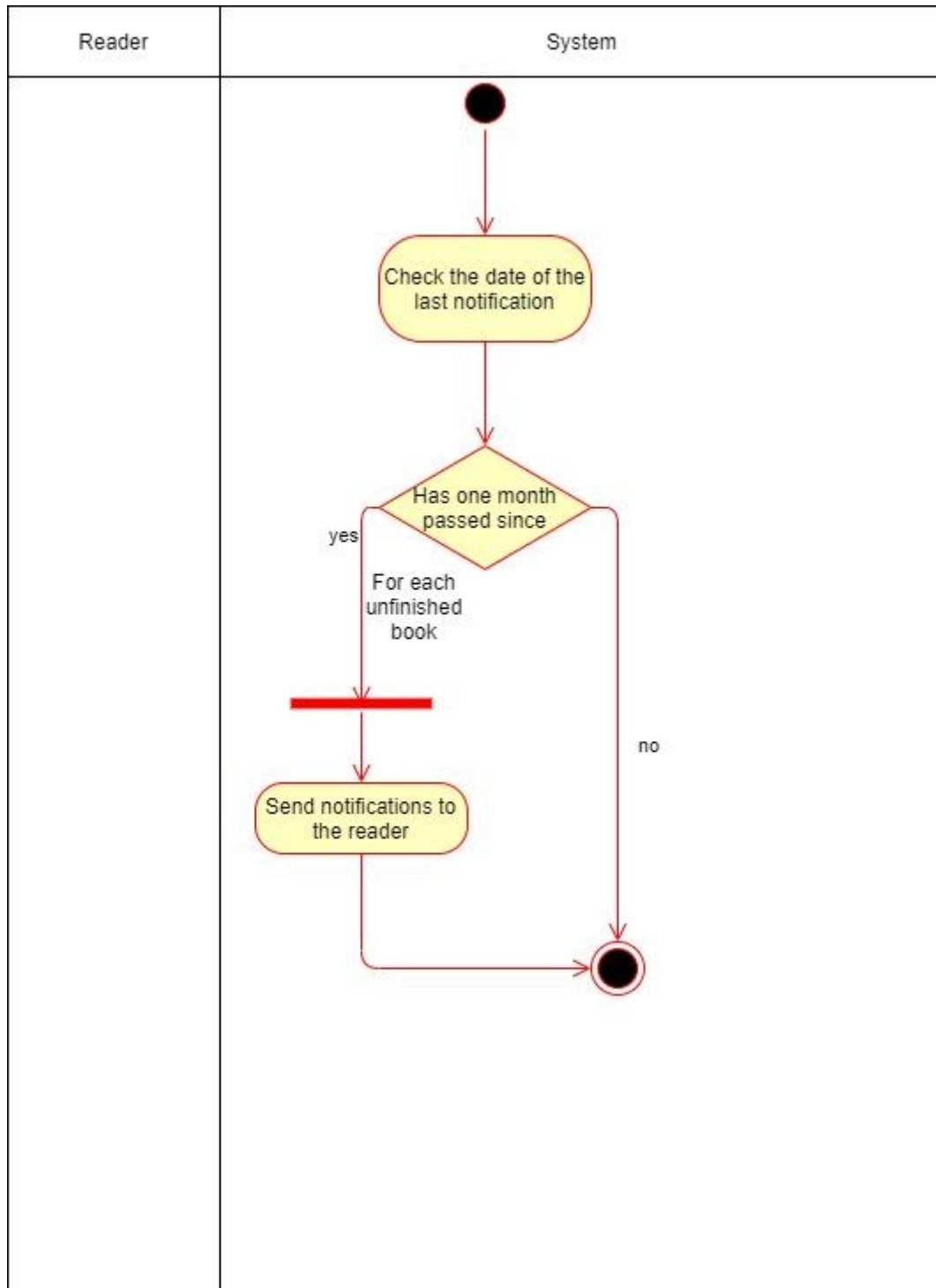
By Aruna



By Aruna



By Aruna



By Aruna

