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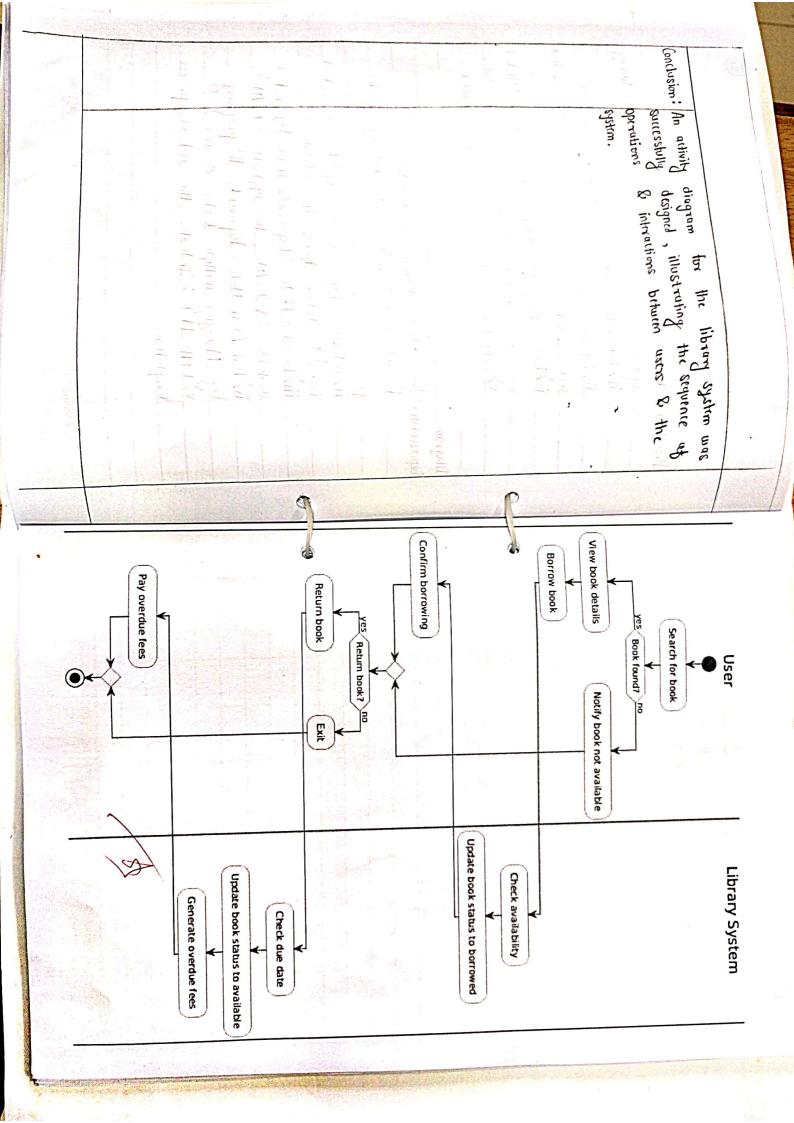
Experiment No. 5

Objective:

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11) Book starch: A user starthes for the hook.	
1) User registration: A new user registes in yether	
Kny Activities of library System:	
bran sachima	
to users efficiently while maintaing runreds of the	
collection. It ensures that the book we available	
book insurance robums near registration & line	
munuges the activities of a library including	
Overview of a library system: A library system	
Drocesses.	
system, such as business markflows & operational	
used	
that represen	
Thomy: An activity diagram is a behavioural UMI diagram	
4	
ensuring a structured & efficient modestom.	al &
involved in o	activity in a library management bystem,
iagram helps in understandir	tepresents like helps in
represents the liberary system using upli-	
Objective: In design & analyte on activity diagram that	O madure an activity diagram has
Q January	the library system.
Him. 10 demonstrate the athurty diagram to implement	4
7	activity diagram to imi

(vi	Book return: The user returns a borrowed book
v>	Fine calculation: If a book is returned late, a
1.	fine is collected.
\(\doldred\)	Book management: The librarian adds updates at
1	tmoves books
	•
Activity dig	Actors involved:
Representation	1) Librarian: Manage books, user's account & fines.
,	ii) User (Member): Searches, borrows & returns book
j	ii Library System: Handles book avaliability & transac
A	tions.
	moress Flow
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	i) The user logs in or registers in the system.
	ii) The user searched for 9 book:
	if a book is avaliable proceed to next step
	It unavaliable, the process terminates
	ii) The user requests to issue the book.
10 (N 2)	if the user is eligible (no dues) the book is
Promision Section 1	bauszi
A212	Otherwise access is denied.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IV) The user returns the book before or on the
	lue date.
- 4,117,521,52 - Characz 4	VIF the book is returned late the system
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Calculates fine
	vi) The user pays the fine (if applicable).
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,	vii) The librarian updates the book's status.
	· Vie
Proceduce:	is Identity the key activities involved in the library
	4
	ii Define the actors & their roles in system.
	iii) Establish the flow of actions & decisions that
	are Involved.
	Iv Draw the UMI activity diagram using UMI tool
	such as STAK UML Lucid charter an aland was
	V Menitry the same!
	Nuch as STAK UML, Lucid charts as plant UML.  V Verify the connections & efficiency of diagram.
Diagram	
Response	The artists of the same of the
representation :	The activity diagram should include:
	i) START Node: Indicates the begining of the
. 4	morese.
5.2	getter and the second s
	is Activities: Represents the stop (Book Search, Book
- 2	issue Return Rook Fine calculation)
<u>.</u>	iii Decision Nodes: Represents Phoices leg: is Book
, + 74×	2 4 V A S TO THE PERSON TO THE BOOK
27 to 27 to 22 to 27 to 22 to 27	avaliable? Yes Mo, Fine applicable ? Yes Mo)
	iv) Fork Join Nodes: Represents 11el processing
	(eg: Managing multiple books at ance)
Wite	
7 J F J F J F J F J F J F J F J F J F J	V) END Node: Indicates the end of process
	Completion
100	
<b>海</b> 。在	
13.4	



Conclusion:	An activity diagram for the library system was
	successfully designed illustrating the sequence of
	An activity diagram for the library system was successfully designed, illustrating the sequence of uperations & interactions between users & the
	auslama
	system.
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