Software Engineering 2 Cover Sheet

Project Title:

Library dashboard

Project Description:

- · Admin and Reader must first log into the library dashboard.
- Admin can manage books in the library (add, update, delete, and list).
- Each book has its own chapters, which the admin control.
- Admin can manage readers (add, update, delete, and list).
- Reader can request a book from the gallery.
- Readers can show the requested books.

Main functions:

Admin User:

- Login/ Logout
- Manage books (CRUD)
- Manage chapters for each book (CRUD)
- Manage Reader (CRUD)
- Accept or decline requests by the reader (CRUD)
- Show the history of reader requests for all books
- 2. Reader User:
- Login/ Logout
- · Can view and filter books
- Send a request to the admin with the required book
- Show a history of book searches related to his account only





Software Engineering-2 Cover Sheet

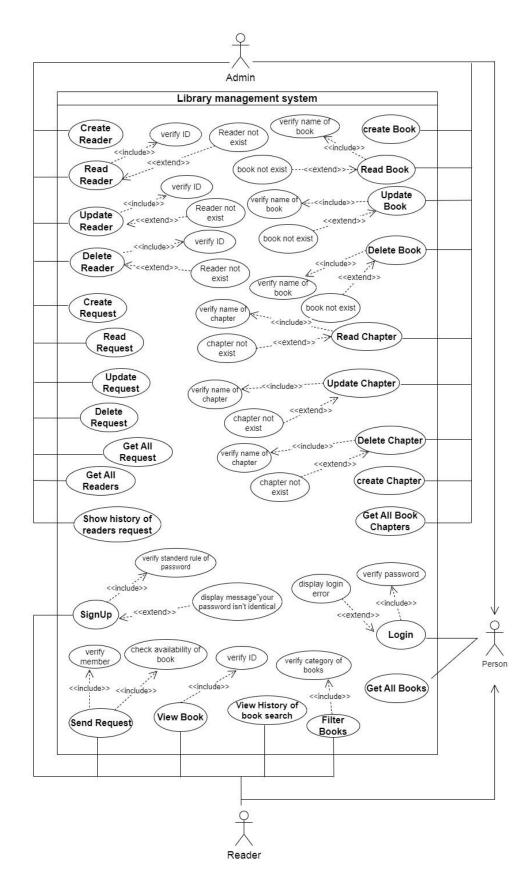
Project Title: Library dashboard	
Row Number (in PDF): .67	Time: 11:00

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1	محمد عبدالمنعم رزق موسي	202000782	
2	علي مصن محمد عبدالمنعم	202000570	
3	سامح محمد پوسف مرسي	202000381	
4	محمد اشرف عبد الموجود حسن	202000731	
5	محمد تكريا منصور محمود	202000752	
6	عمر خاد عبدالحميد عبدالحميد	201900510	
7			

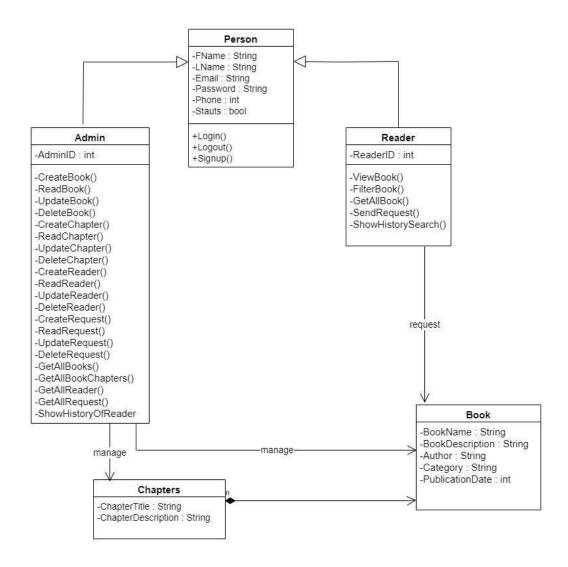
Project Requirements(grades)

SRS	2	
SDD	2	
Validation	3	
OCL	4	
AOP	4	
Microservices	1	
Cloud	4	

20

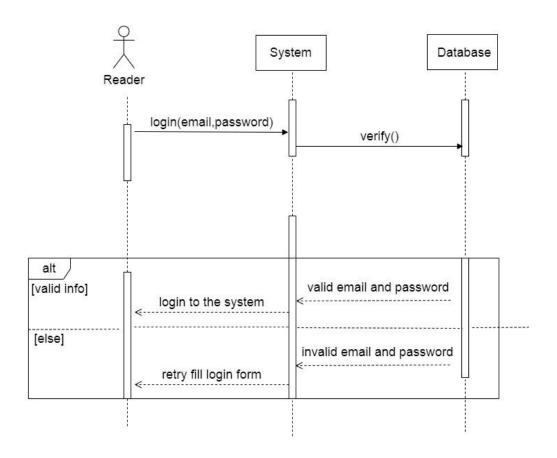


Class diagram:

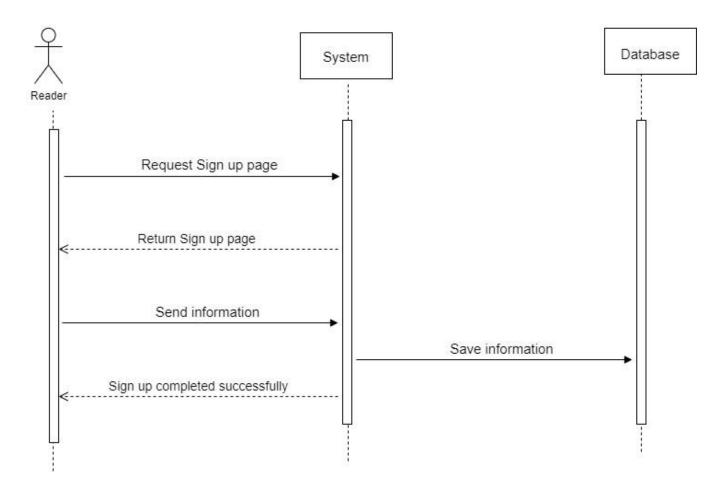


Sequence diagram:

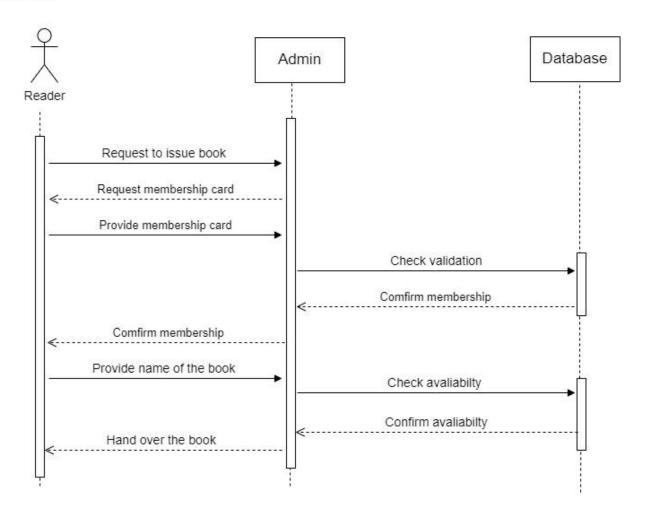
Login for reader



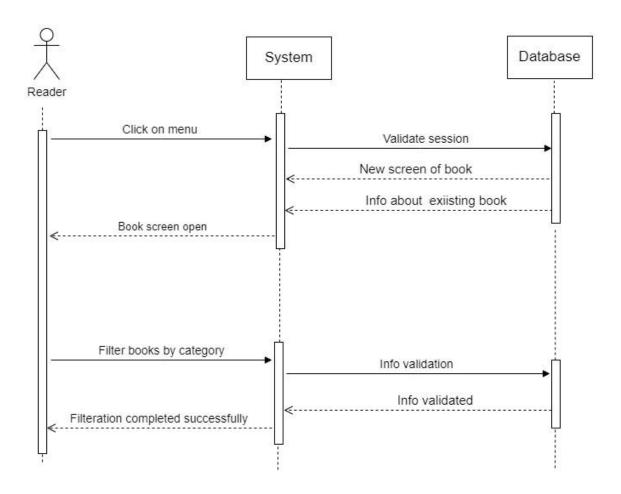
sign up



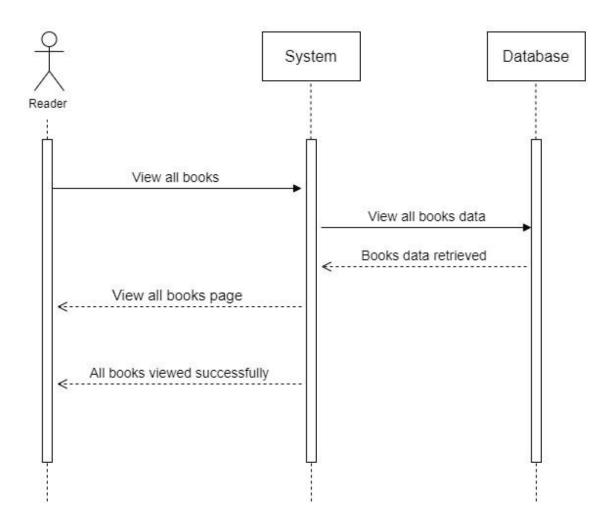
Request book



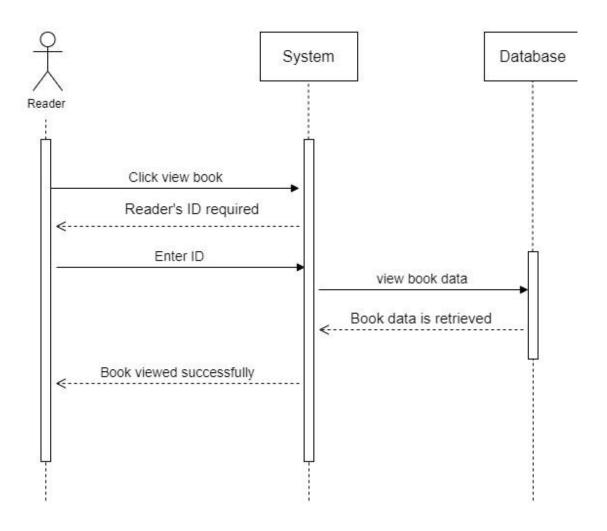
Filter books



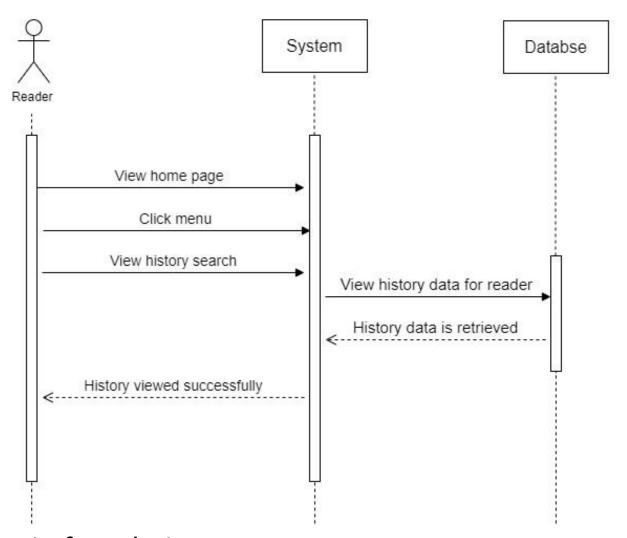
Get all books



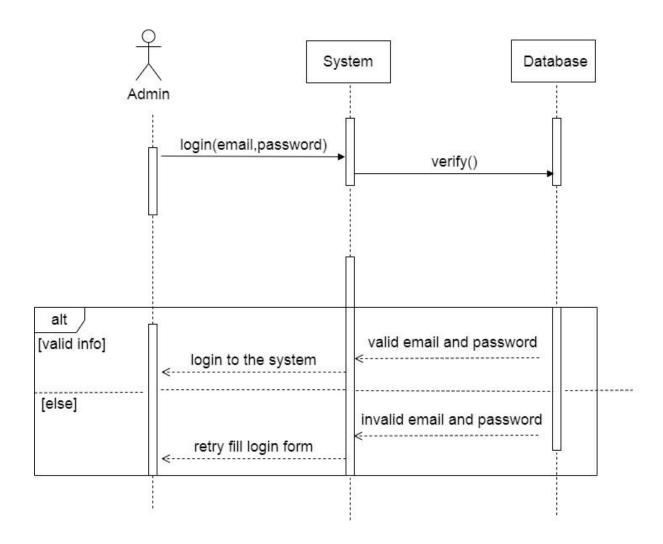
View book



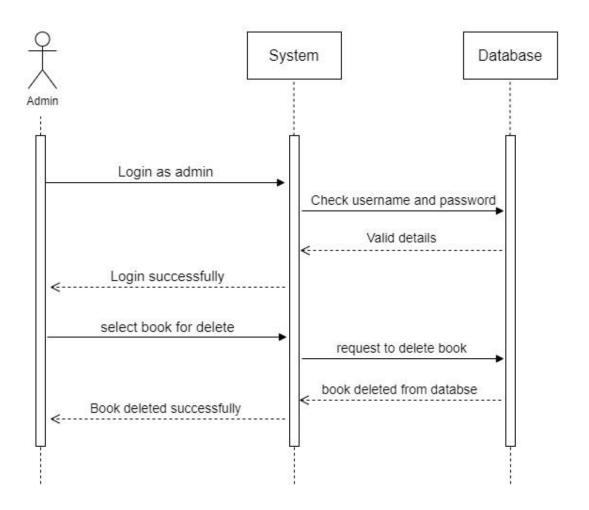
view history



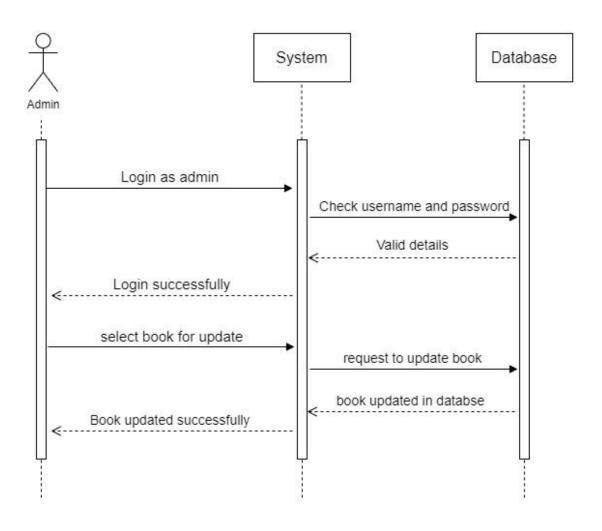
Login for admin



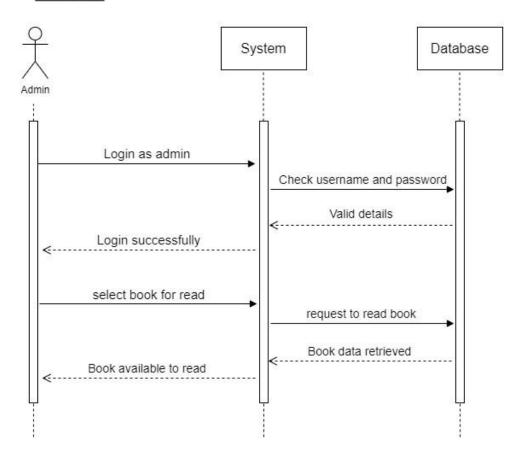
Delete book



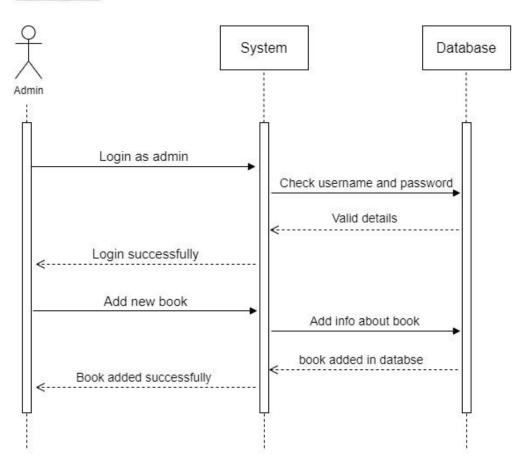
update book



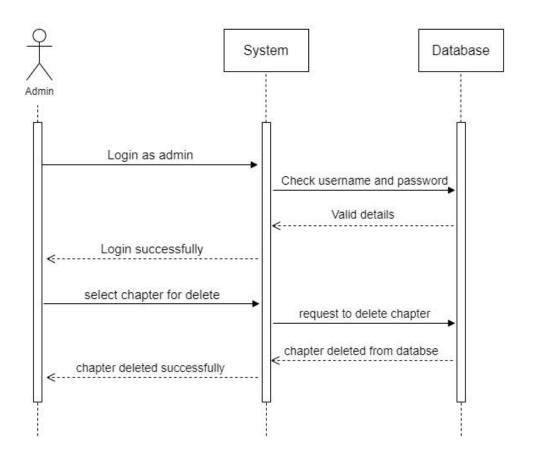
read book



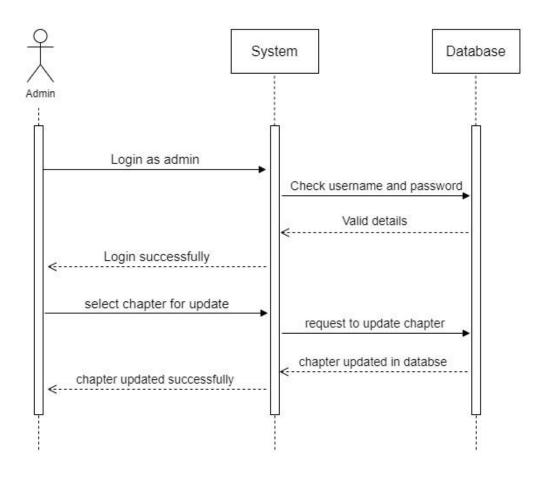
create book



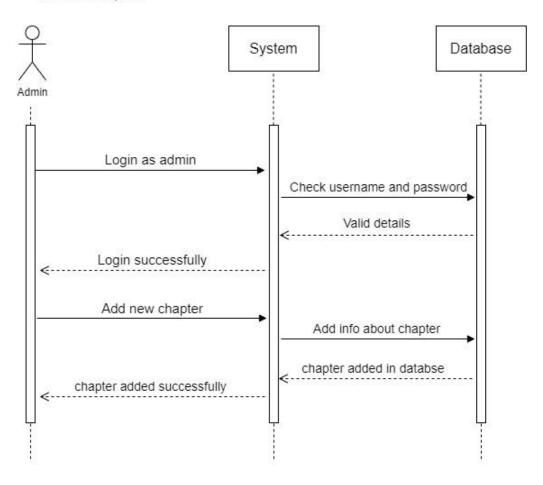
Delete chapter



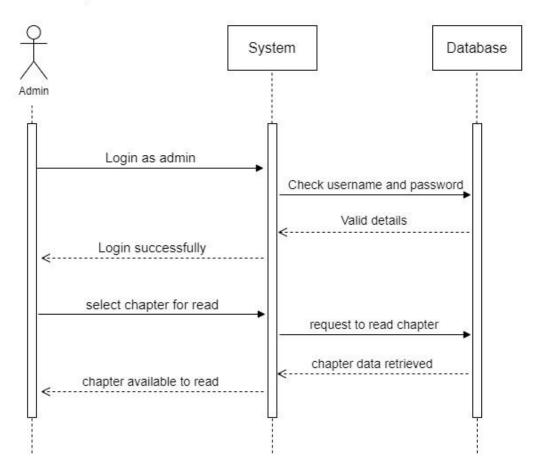
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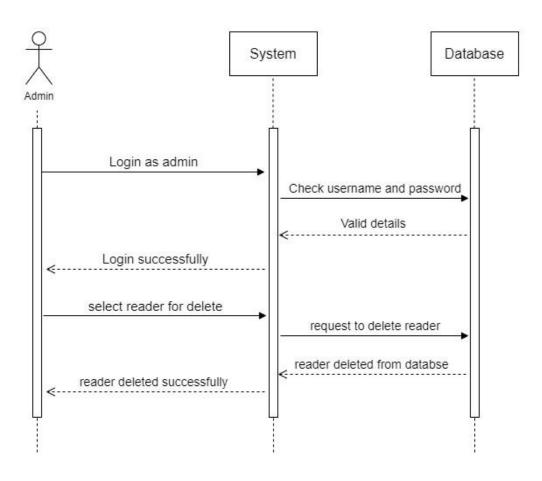
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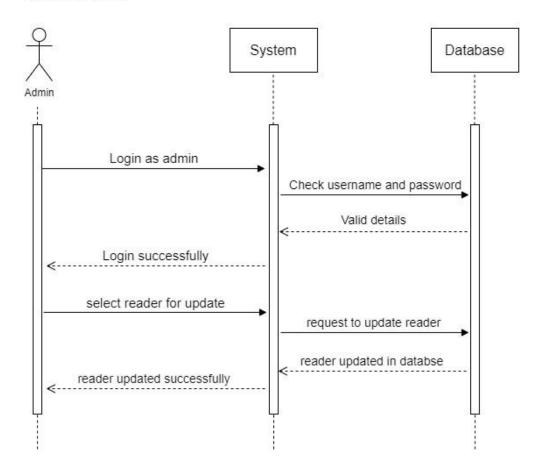
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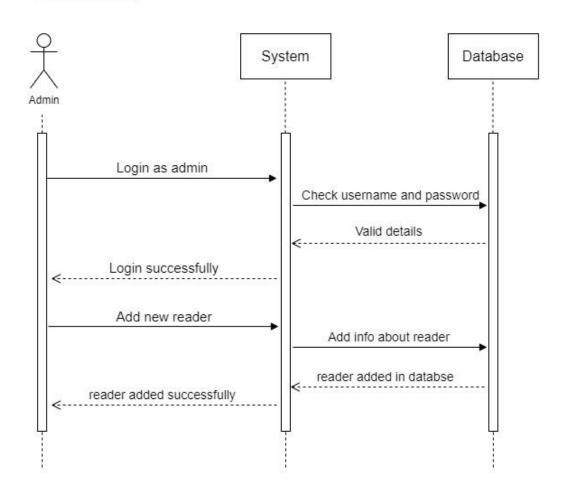
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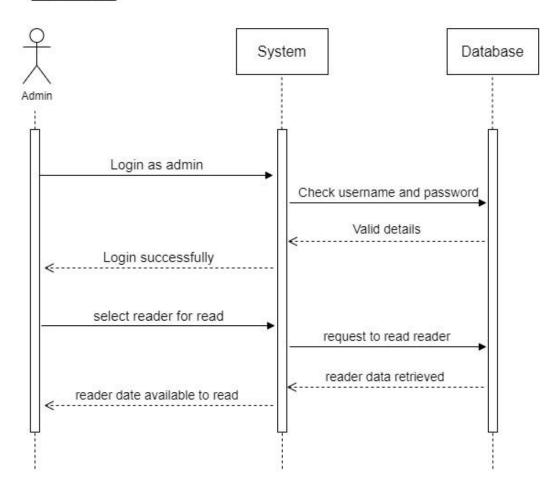
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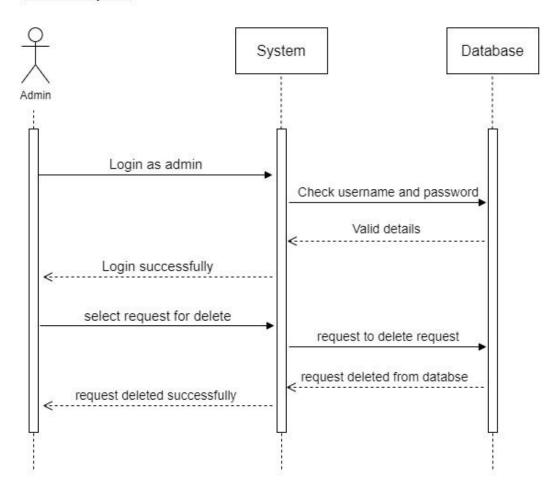
create reader



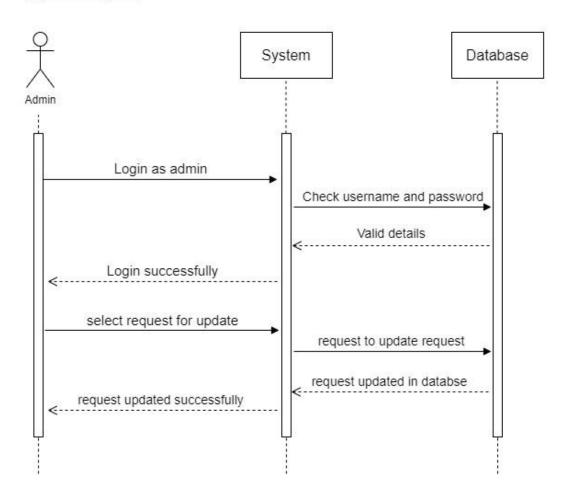
read reader



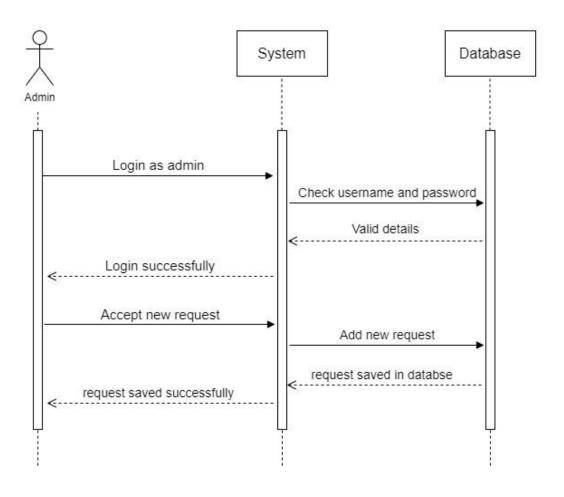
Delete request



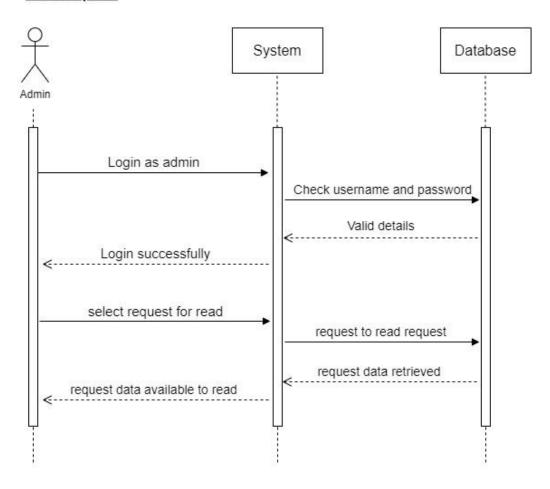
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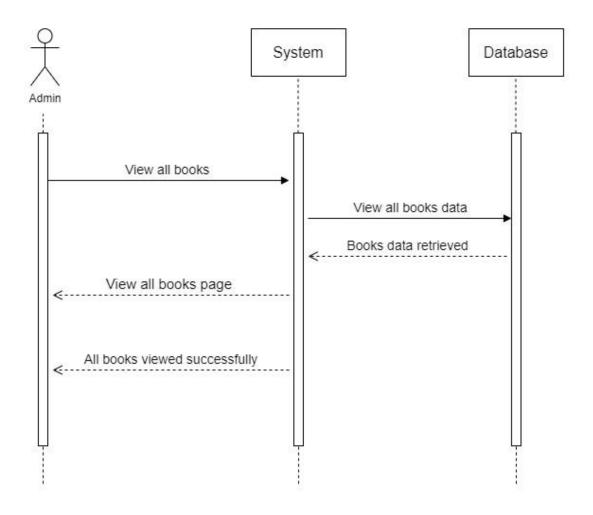
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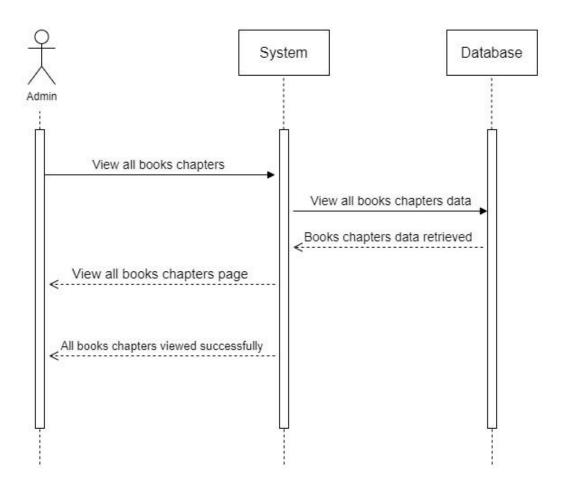
read request



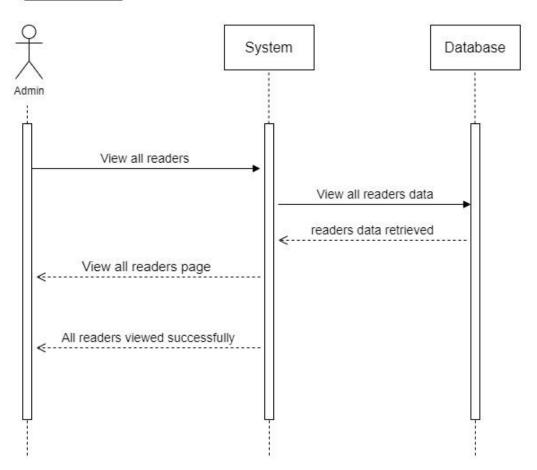
Get all books



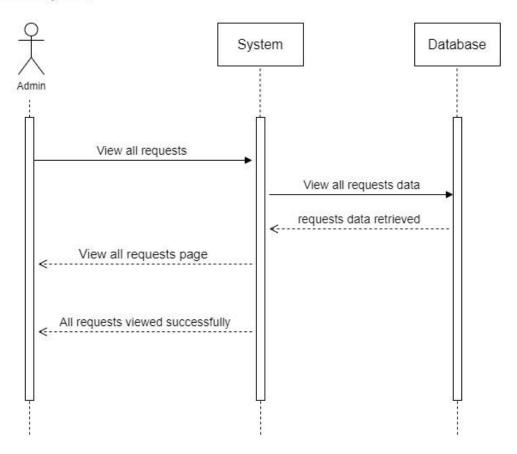
Get all books chaprers



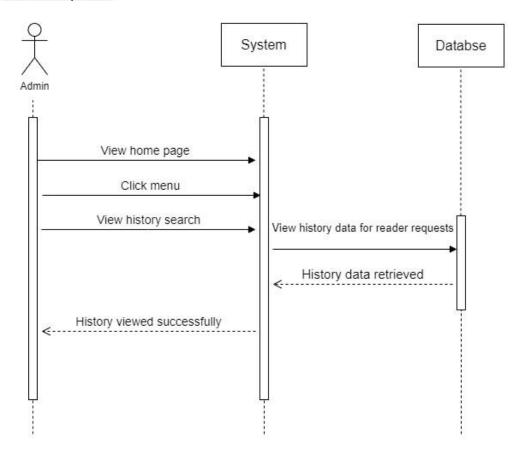
Get all Readers



Get all requests

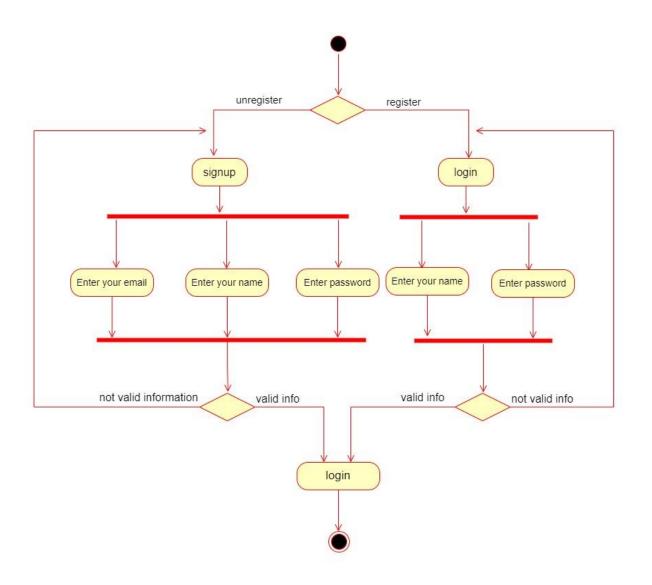


view history of reader requests

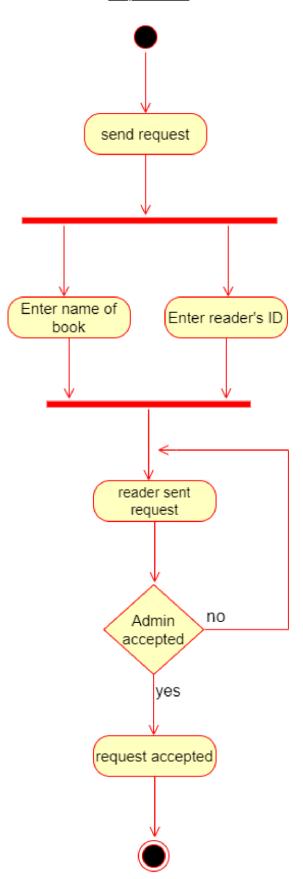


Activity diagram for

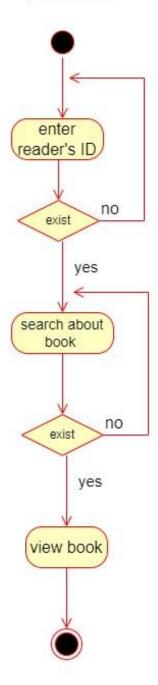
reader:

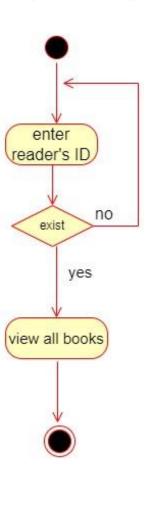


Request book

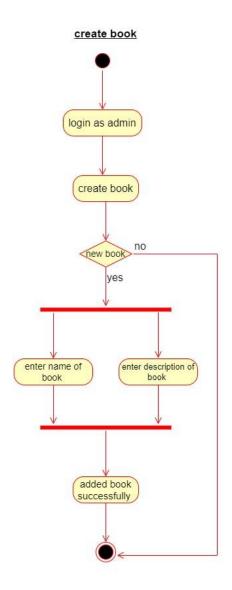


View book Get all books



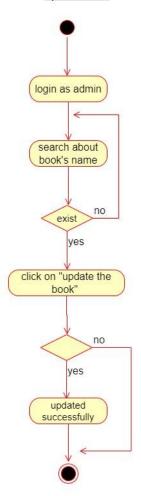


For admin





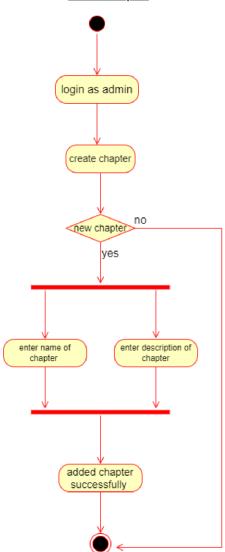
update book



Delete book



create chapter



read chapter

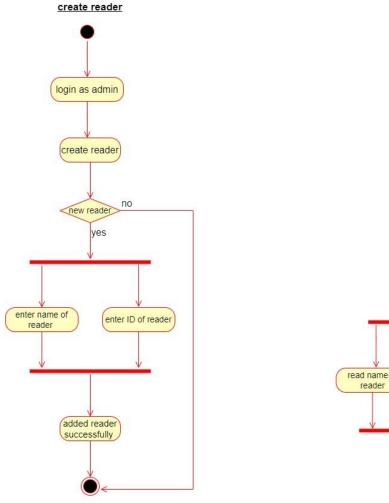


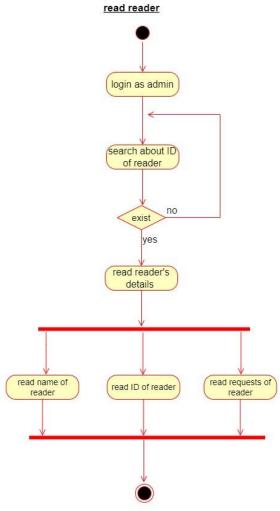
update chapter



Delete book





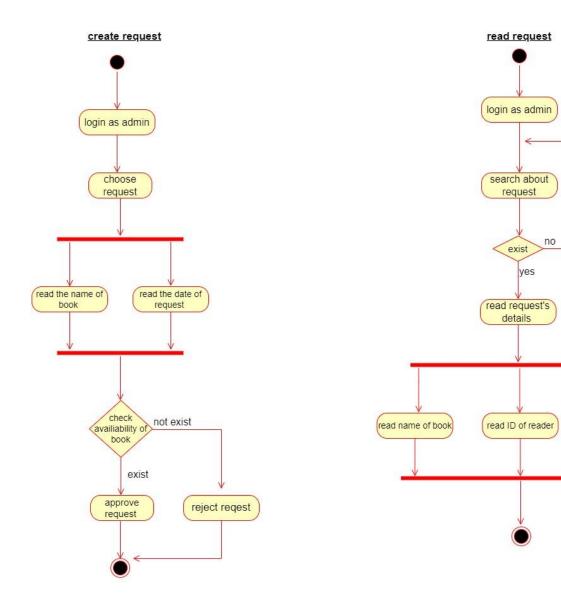


update reader



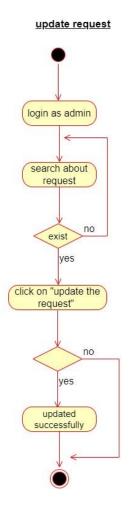
Delete reader

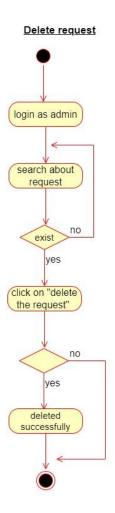




read date of

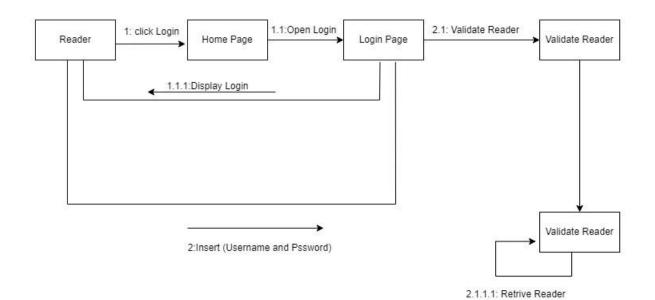
request

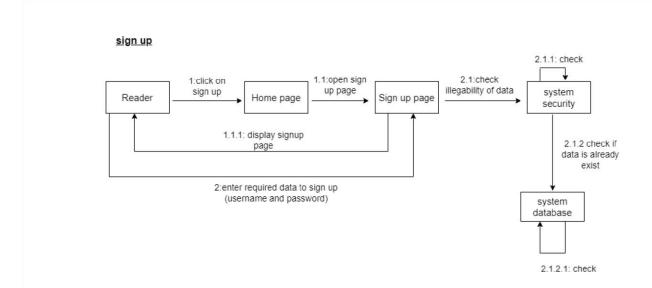




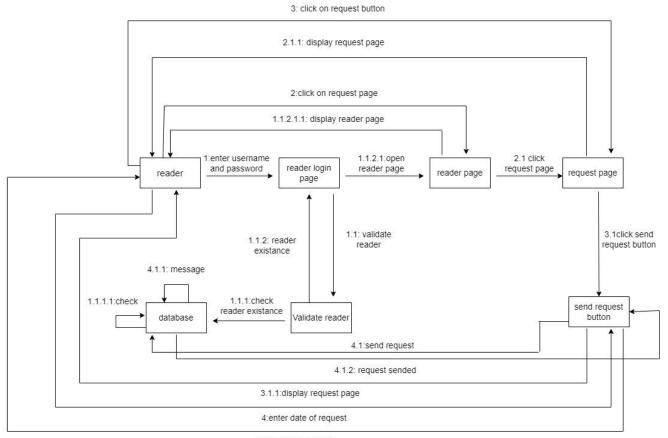
Communication diagram For reader:

Login



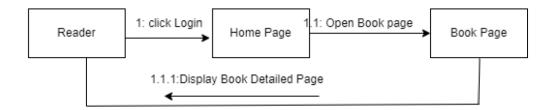


send request



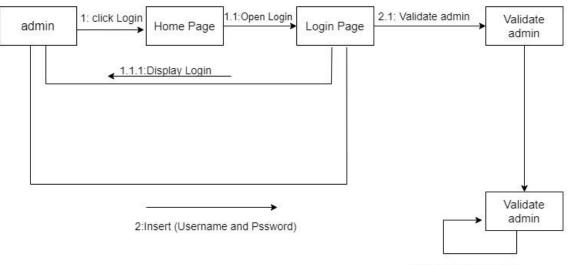
4.1.2.1:request send successfully

View Book



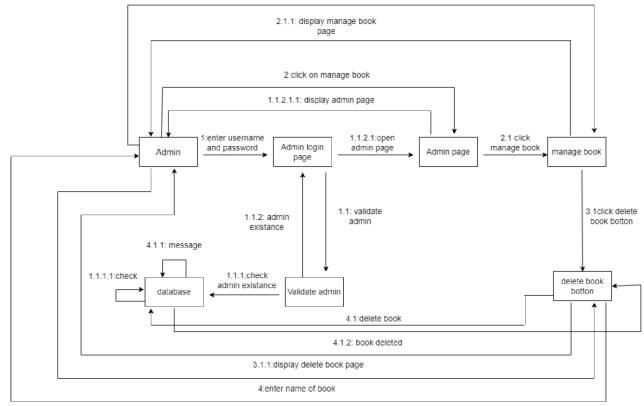
For admin

Login



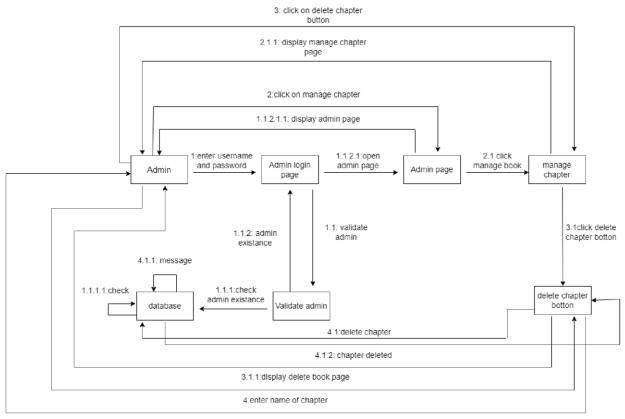
2.1.1.1: Retrive admin

3: click on delete book button



4.1.2.1:deleted successfully

delete chapter



4.1.2.1:deleted successfully

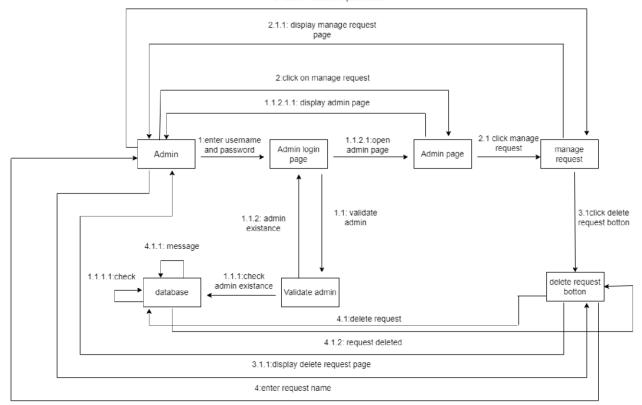
delete reader

3: click on delete reader button 2.1.1: display manage reader page 2:click on manage reader 1.1.2.1.1: display admin page 1.1.2.1:open admin page 2.1 click 1:enter username Admin login and password manage reader Admin page manage reader Admin page 1.1: validate admin 3.1click delete reader botton 1.1.2: admin existance 4.1.1: message 1.1.1:check admin existance 1.1.1.1:check delete reader Validate admin botton database 4.1:delete reader 4.1.2: reader deleted 3.1.1:display delete reader page 4:enter ID of reader

4.1.2.1:deleted successfully

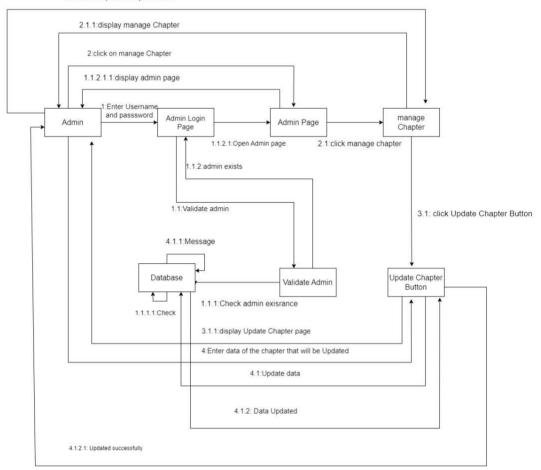
delete request

3: click on delete request button

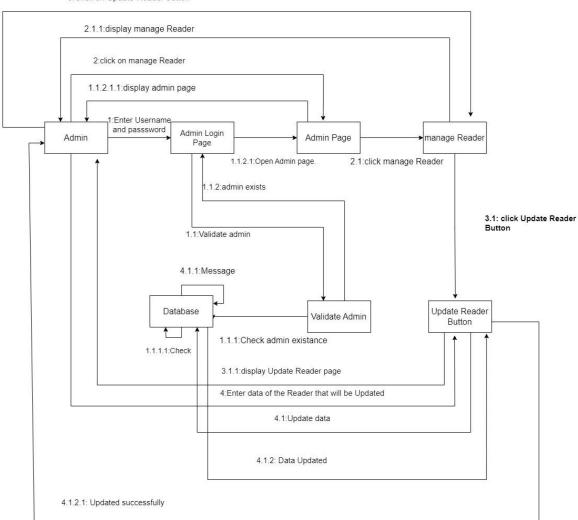


4.1.2.1:deleted successfully

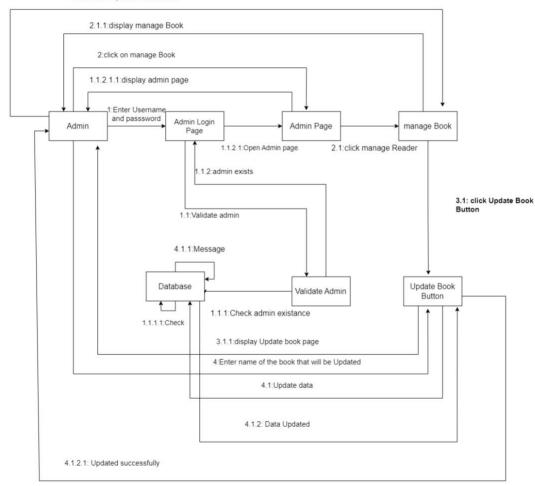
3:Click on Update chapter button



3:Click on Update Reader button

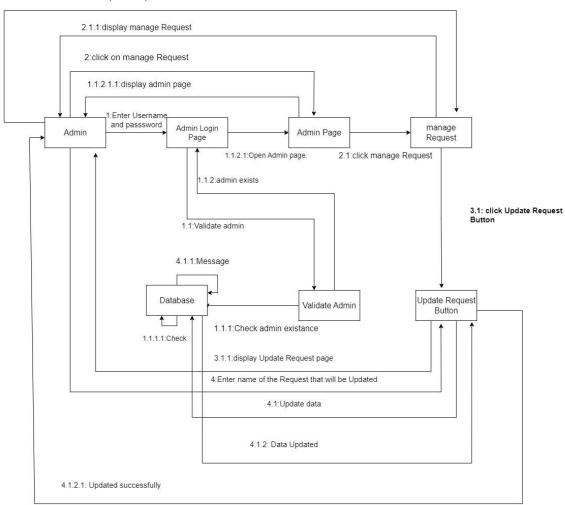


3:Click on Update Book button

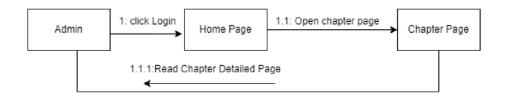


Update Request

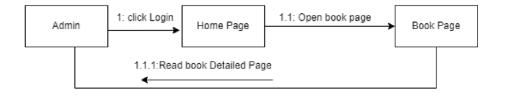
3:Click on Update Request button



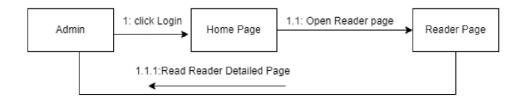
Read Chapter



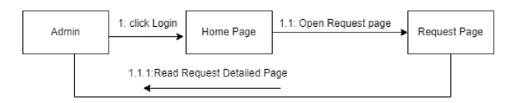
Read Book



Read Reader

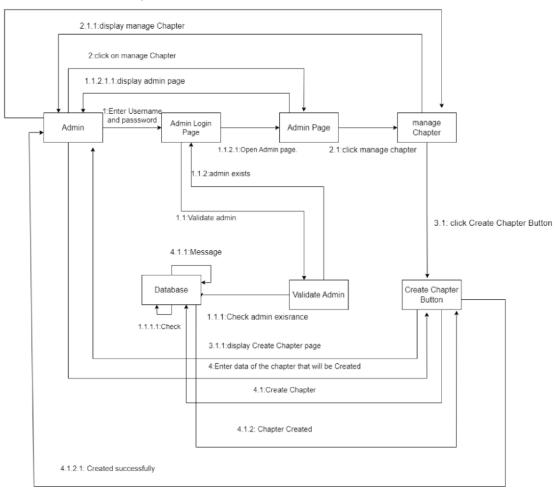


Read Request

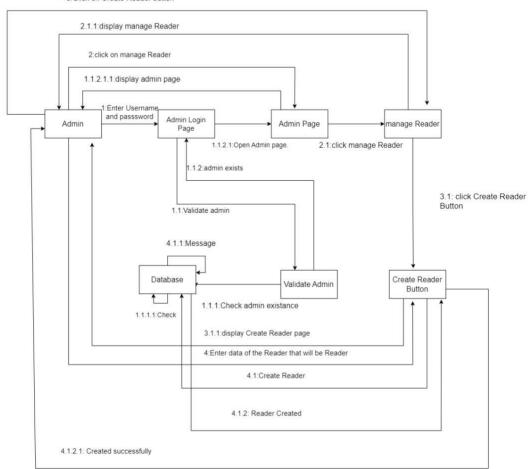


Create Chapter

3:Click on Create chapter button

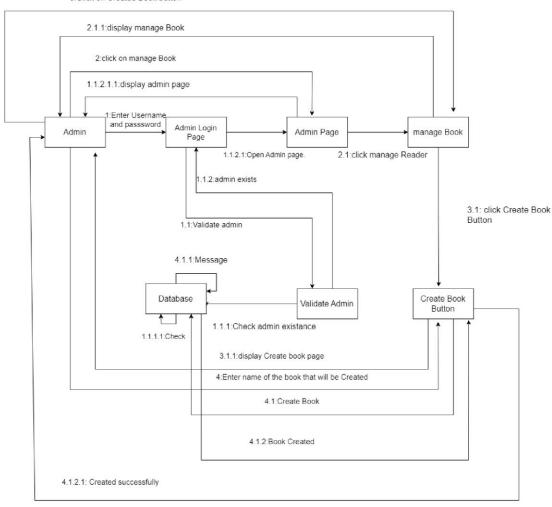


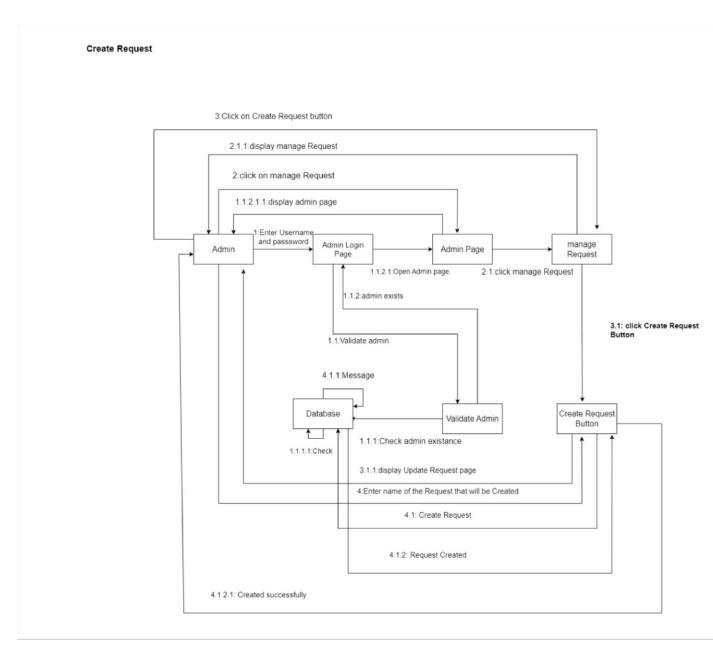
3: Click on Create Reader button



Create Book

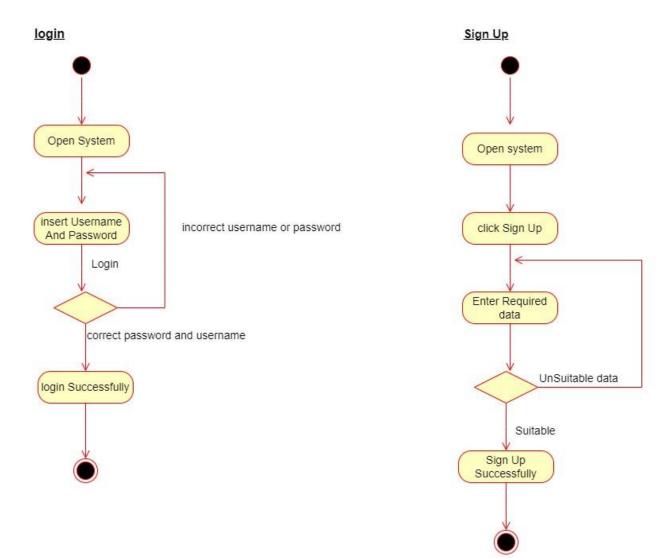
3:Click on Created Book button



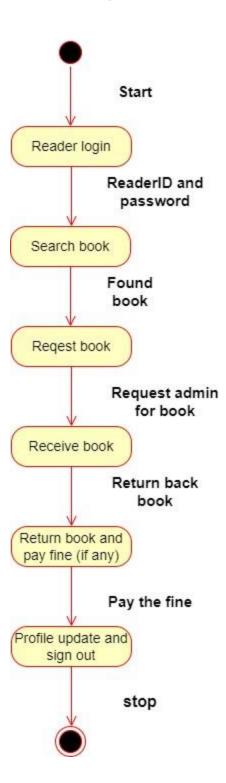


State diagram For

reader:



send request

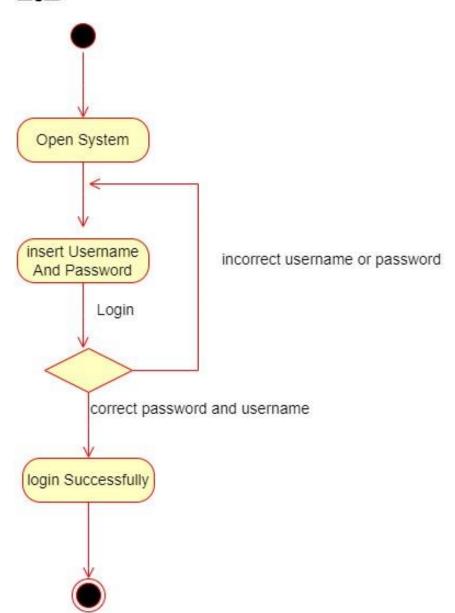


View Book

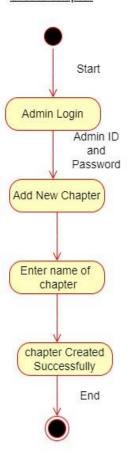


For admin:

<u>login</u>



Create chapter



Read chapter



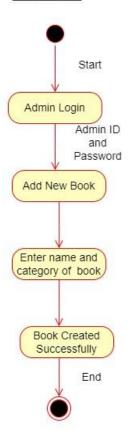
Update chapter



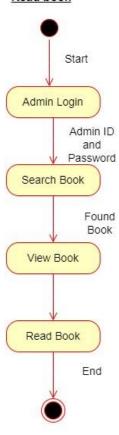
Delete chapter



Create Book



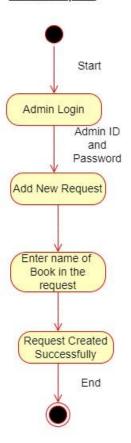
Read book



Start Admin Login Admin ID and Password Search Book Found Book View book details Update Book End

Start Admin Login Admin ID and Password Search Book Found Book View Book Delete Book End

Create Request



Read Request



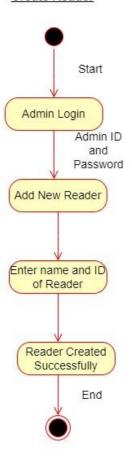
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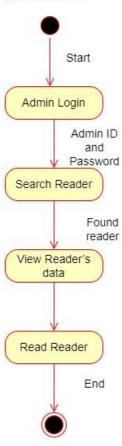
Delete request



Create Reader



Read Reader



Update Reader Delete Reader Start Start Admin Login Admin Login Admin ID Admin ID and Password Password Search Reader Search Reader Found Found Reader Reader View Reader's View Reader details Update reader Delete Reader End End

OCL diagram:

