

Group Project - Fall 2022

CPIS-351 IS Analysis and Architecture Design

Coordinator(s) Dr. Sahar Jambi

9978

Student ID	2005133
Student Name	Maria Emad Tamim
Section	B9A, B8A

Obtained Marks out of

SO	Max	Obtained Marks
2	15	
3	5	



KING ABDULAZIZ UNIVERSITY
COLLEGE OF COMPUTING AND INFORMATION
TECHNOLOGY
DEPARTMENT OF INFORMATION SYSTEM

CPIS-351

Project

Lab Instructor: Dr. Sahar Jambi

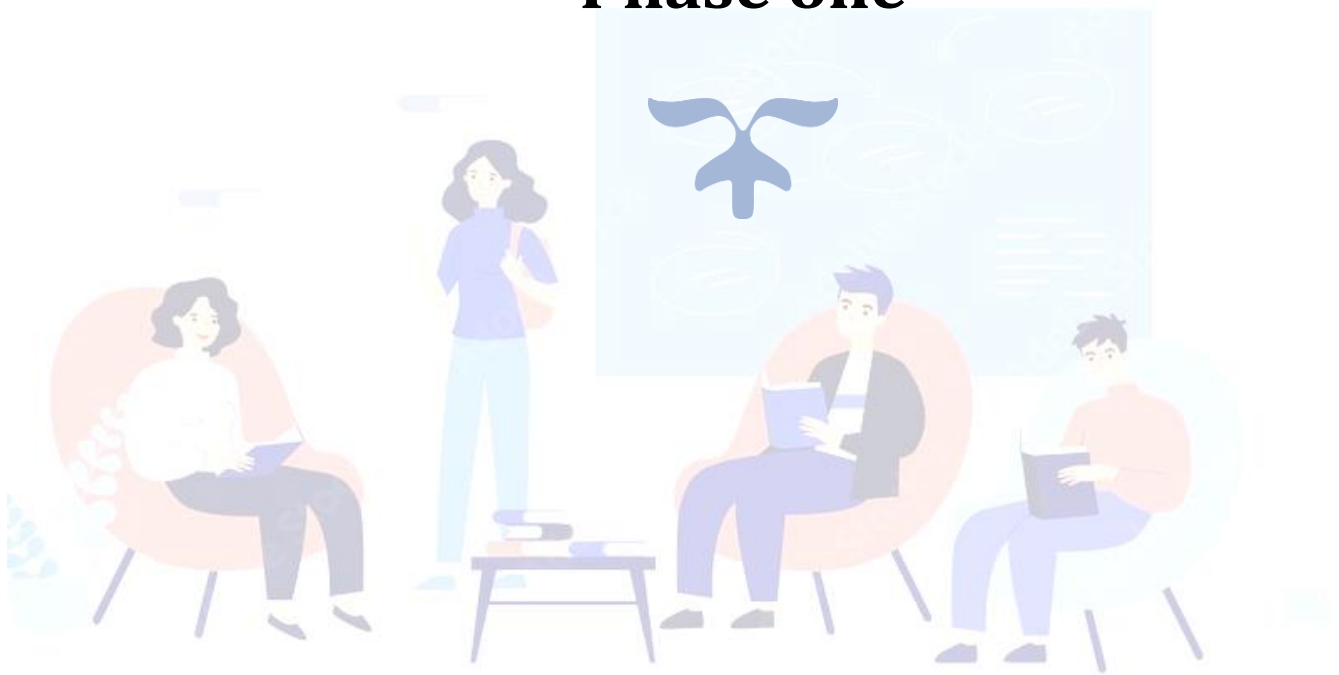
I – Student App



Student Name	ID	Section
Maria Tamim	2005133	B9A



Phase one



1.1 Problem Description

The student's community system will help the students in King Abdul-Aziz university, especially FCIT students to communicate with other students and make it easy to share information to help them study.

- Problem Solution

"Student's community system". The motivation for choosing this topic is to make the students communication much easier by providing features that satisfy student communication needs in their college life. its main focus is to make student communicate with other students to ask questions and take advices and help each other in studying either in chat or video sessions.

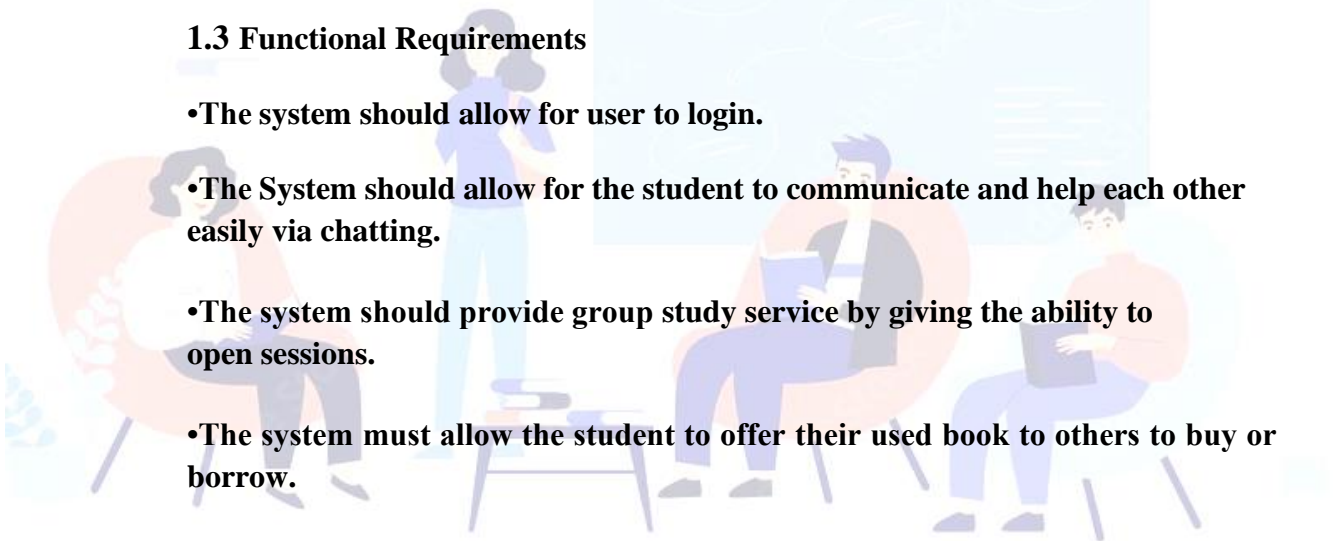
The instructor have the accesesabilty of removing or banding any of the student if they may have any mess behavior.

1.2 Scenario of the System

The student registers in this platform, and from this registration, he will be able to communicate with other students through a private or public conversation, depending on the activation of the privacy button. From this platform, students can share their experiences and help each other, the instructor may also chat with the students for help tips and making an announcements.

1.3 Functional Requirements

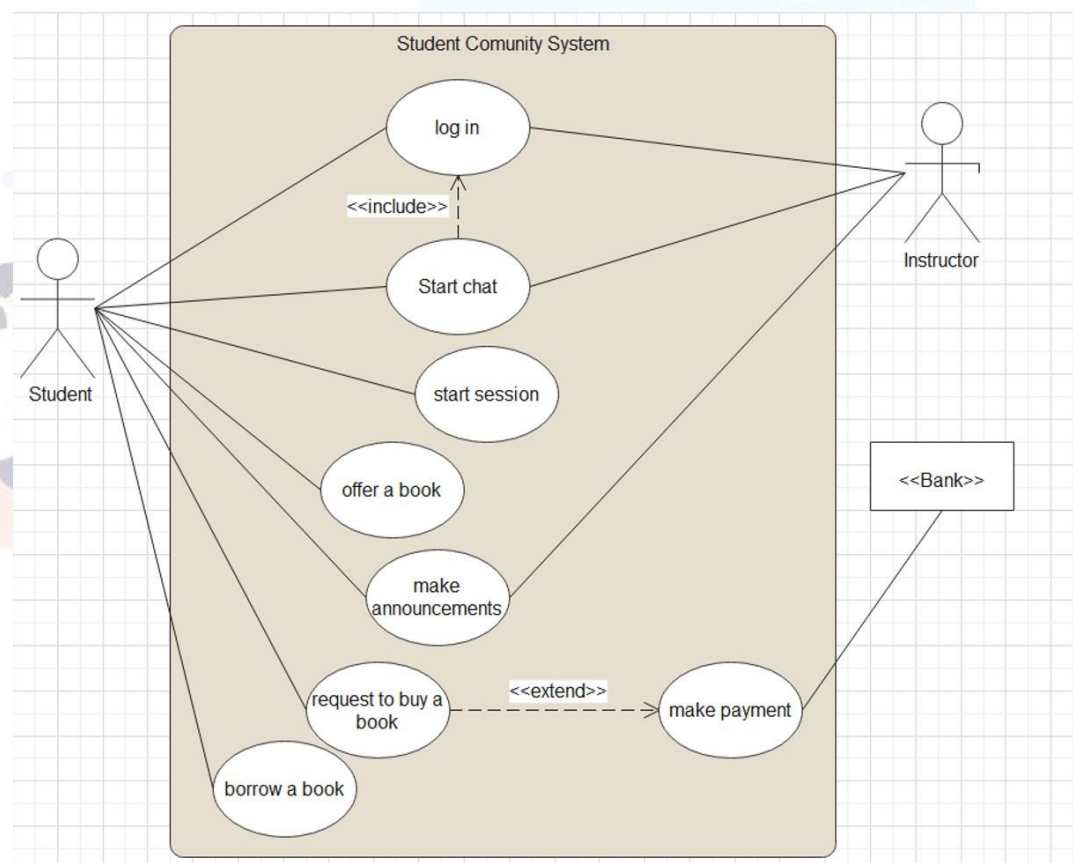
- The system should allow for user to login.
- The System should allow for the student to communicate and help each other easily via chatting.
- The system should provide group study service by giving the ability to open sessions.
- The system must allow the student to offer their used book to others to buy or borrow.
- The system will have a discussion board for the student.
- The system should allow the student to share and post about university activities.



1.4 Non Functional Requirements

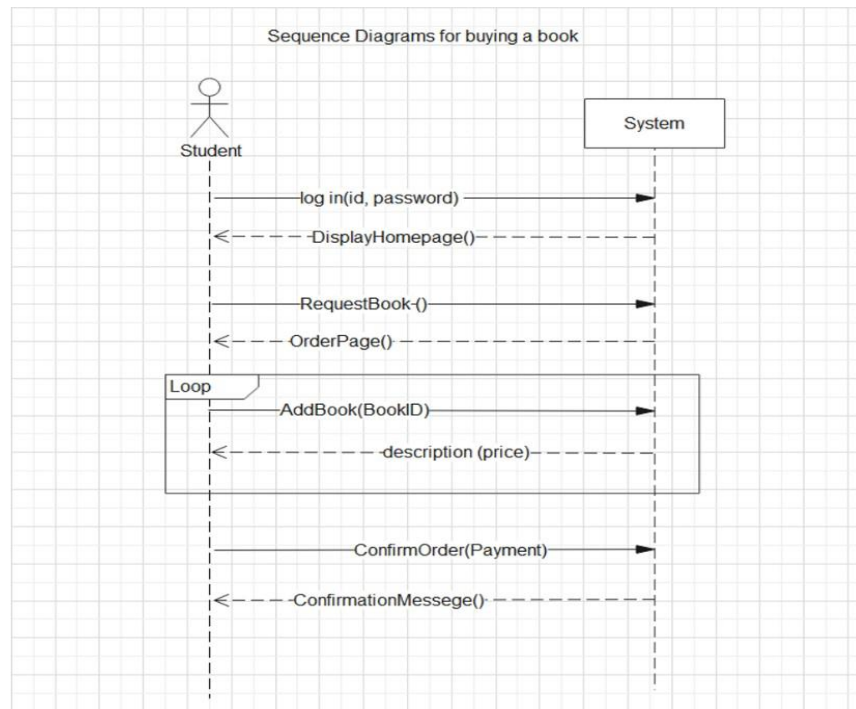
- The system should protect the information for the user by ask the user to enter the username and password.
- The system should just run on the new version of iOS system mobile like 14.4 iOS and on windows 10 system.
- The system should response for the click 'ok' so fast for less than second or when the user clicks 'next' to go to next screen.
- The system should determine limit time for user to be in the application without ask the user to enter the username and password.
- The system should provide facilitate interface for user to use it.

1.5 Use-Case Diagram

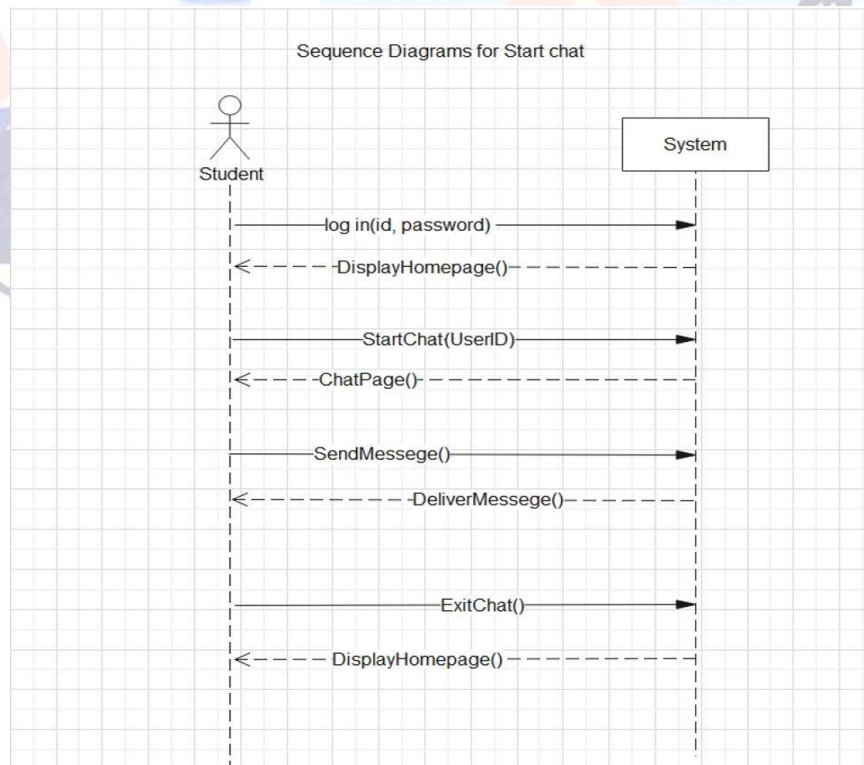


1.6 Sequence Diagram for (major two use cases)

a. For buying a book



b. For Start Chat



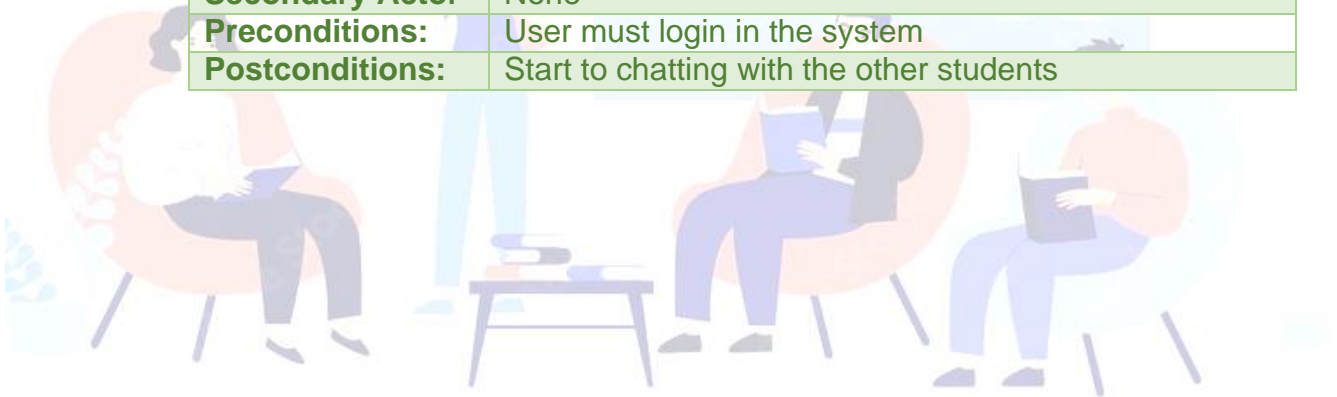
1.7 Use Case Description for two major use-cases

a. Description of login:

Use Case ID:	SC_UC_1
Use Case Name:	Login
Date Created:	1/4/2021
Description:	This use case allows user to login into the system to access to provided functions. To login to the system all students have to enter their unique ID and password. Then the system will display the home page.
Primary actor:	Students
Secondary Actor	None
Preconditions:	User must have a valid account.
Postconditions:	The system displays the homepage.

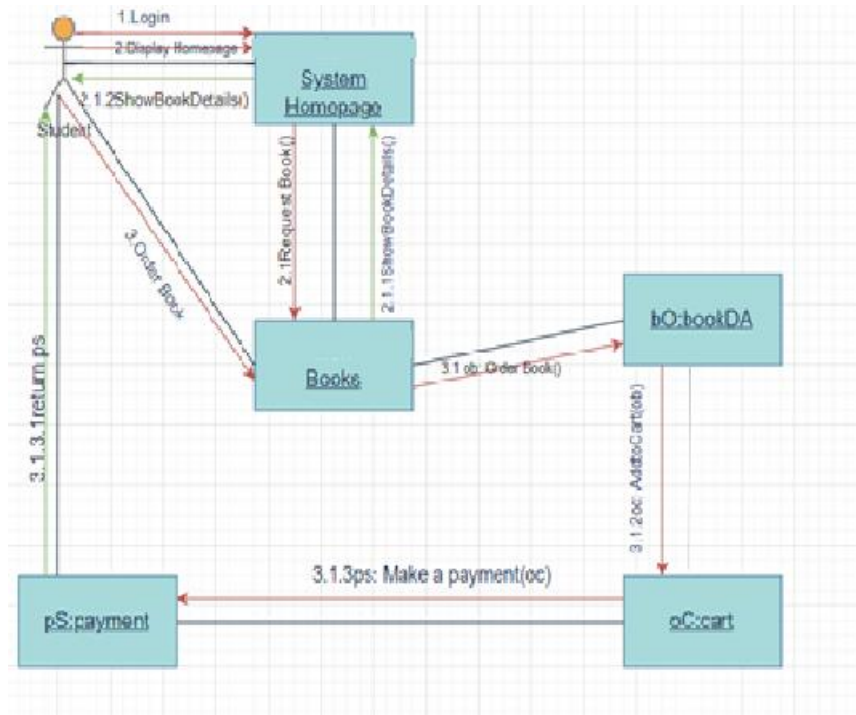
b. Start Chat:

Use Case ID:	SC_UC_2
Use Case Name:	Start chat
Date Created:	1/4/2021
Description:	This use case allows user to start private/public chat with another user
Primary actor:	Students
Secondary Actor	None
Preconditions:	User must login in the system
Postconditions:	Start to chatting with the other students

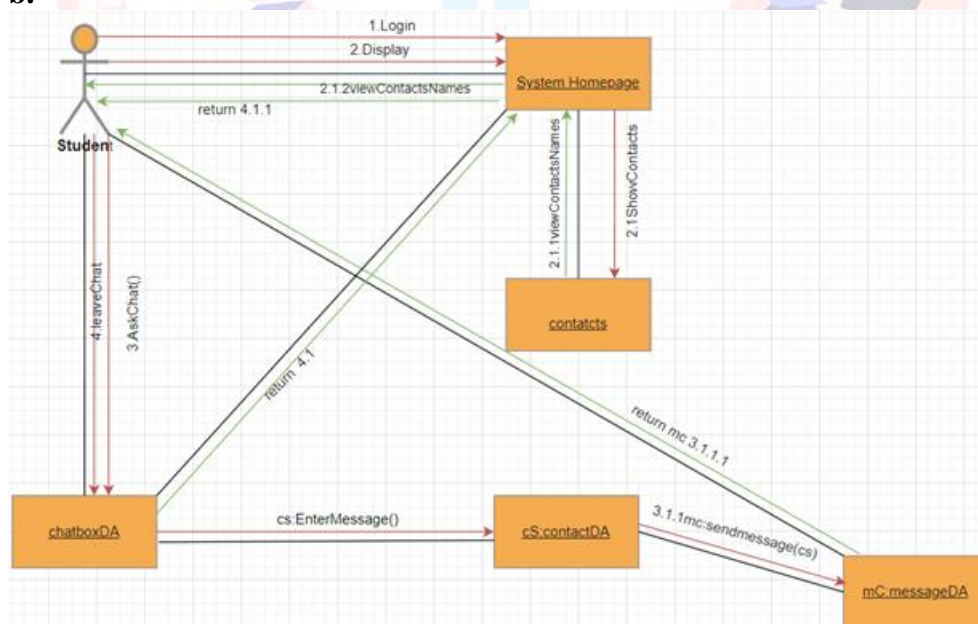


1.8 Communication diagrams for the above two detailed sequence diagrams

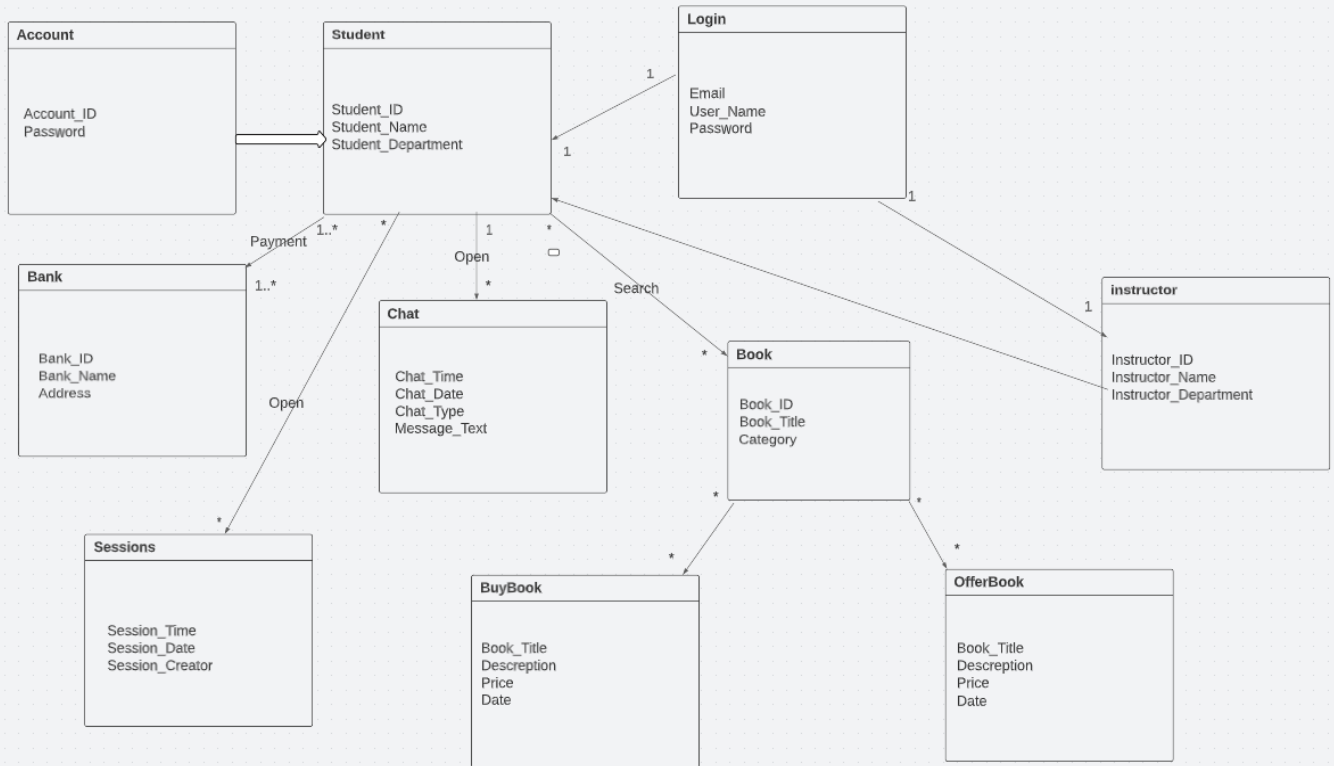
a.



b.

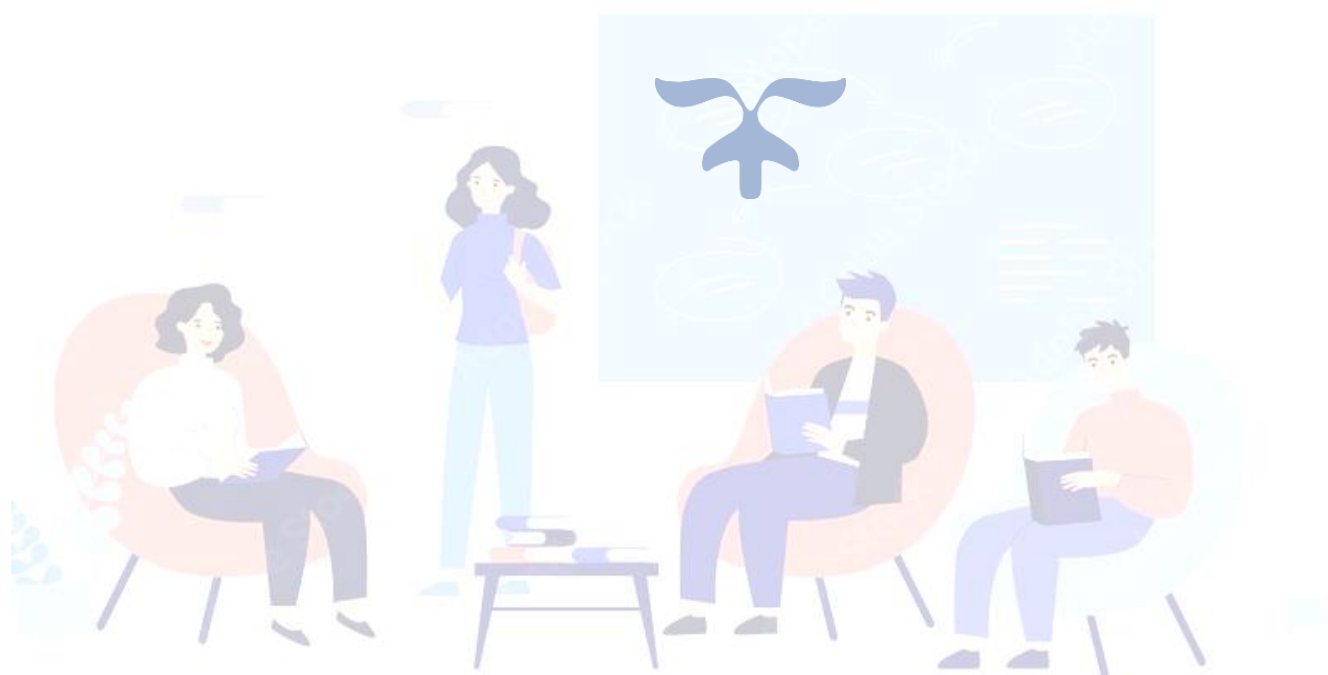


1.9 Domain Class Diagram

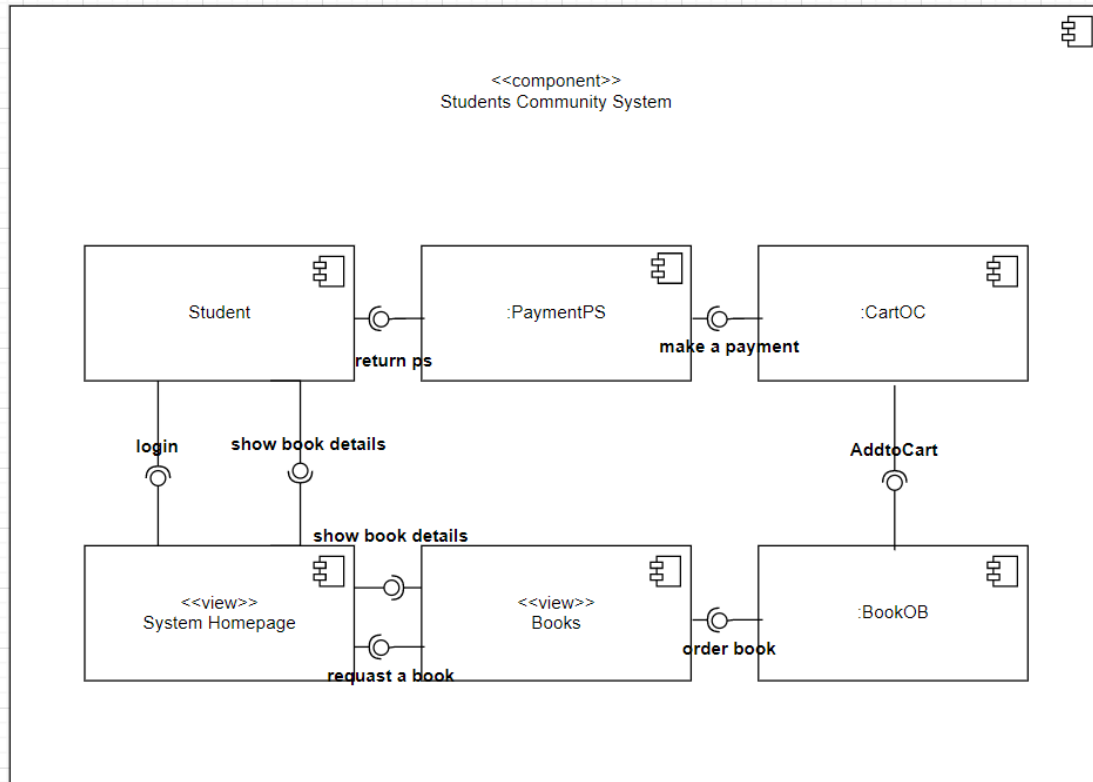




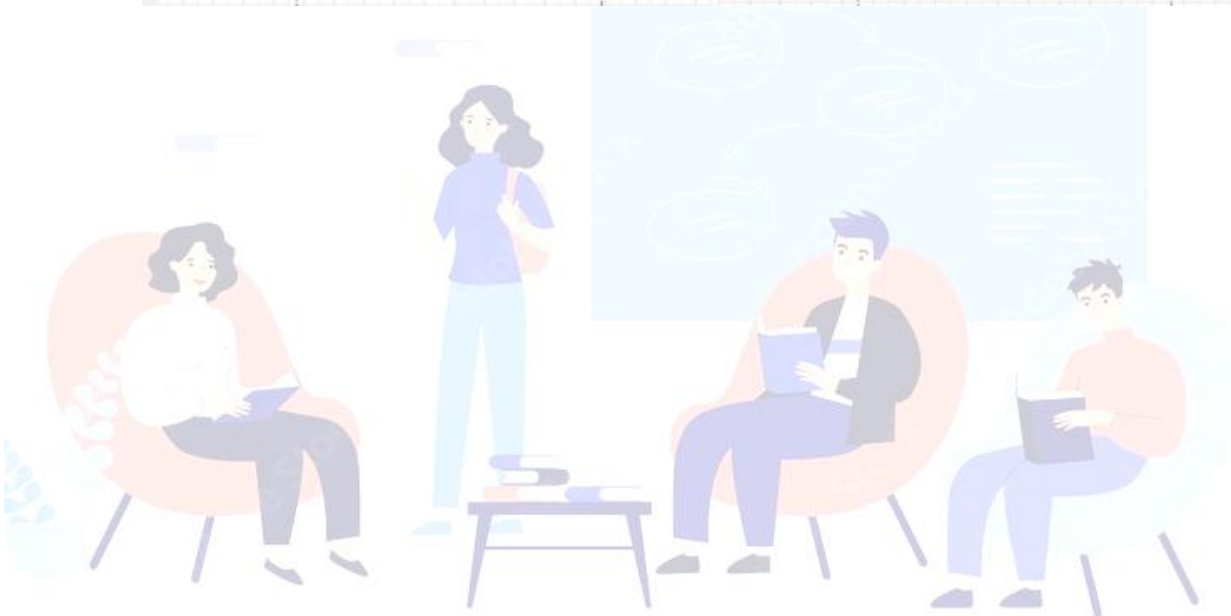
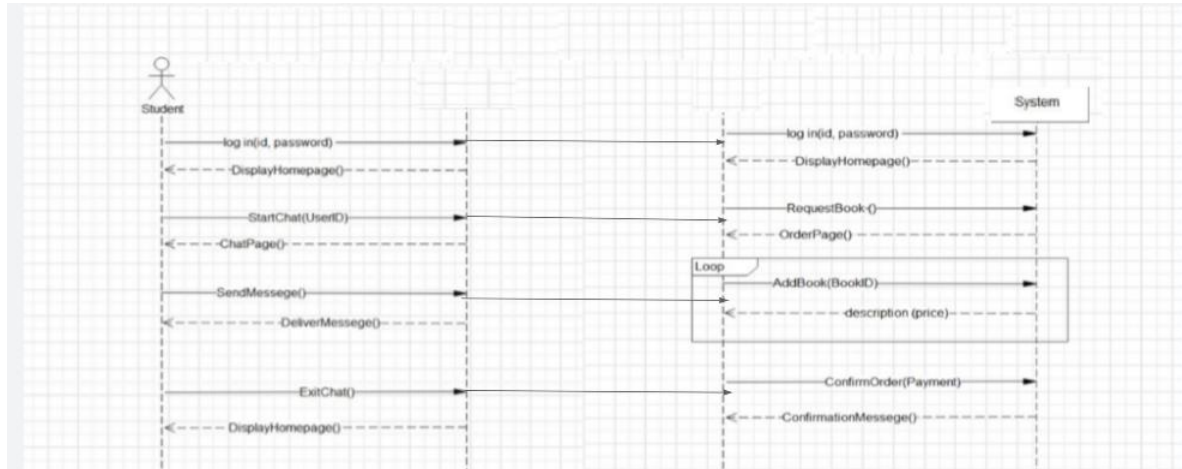
Phase two



2.1 Component Diagram

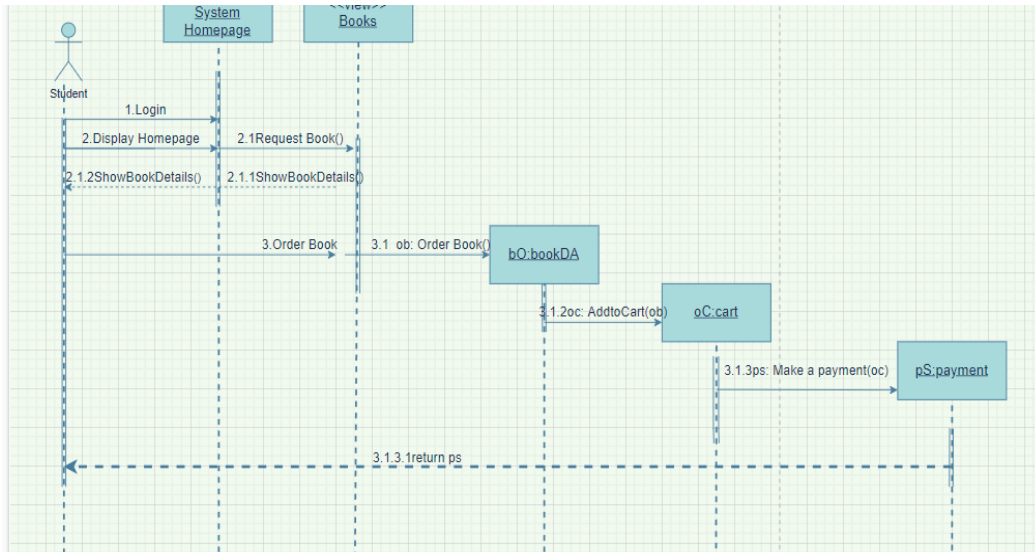


2.2 First-Cut Design Class Diagram

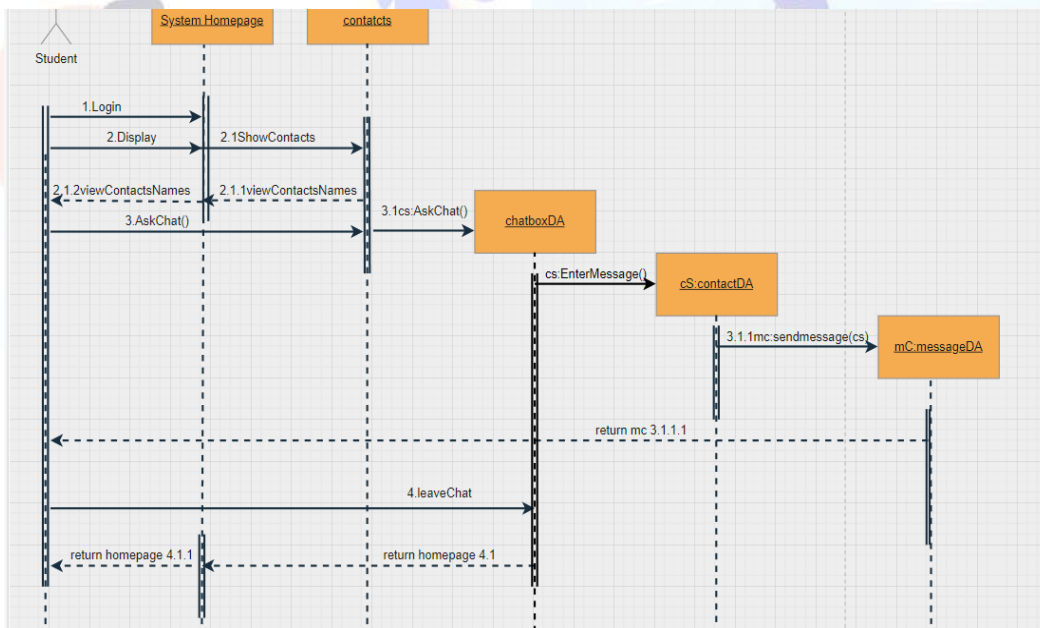


2.3 Detailed Multi-Layer Sequence Diagrams (for two major use cases)

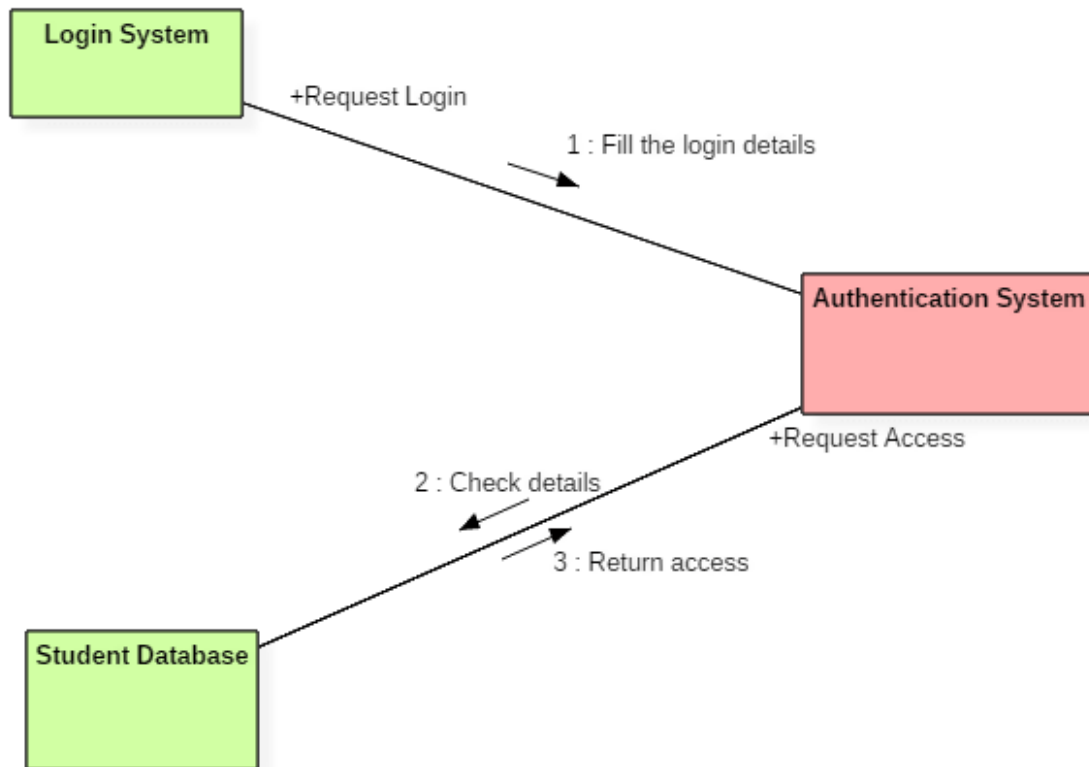
A. For buying a book



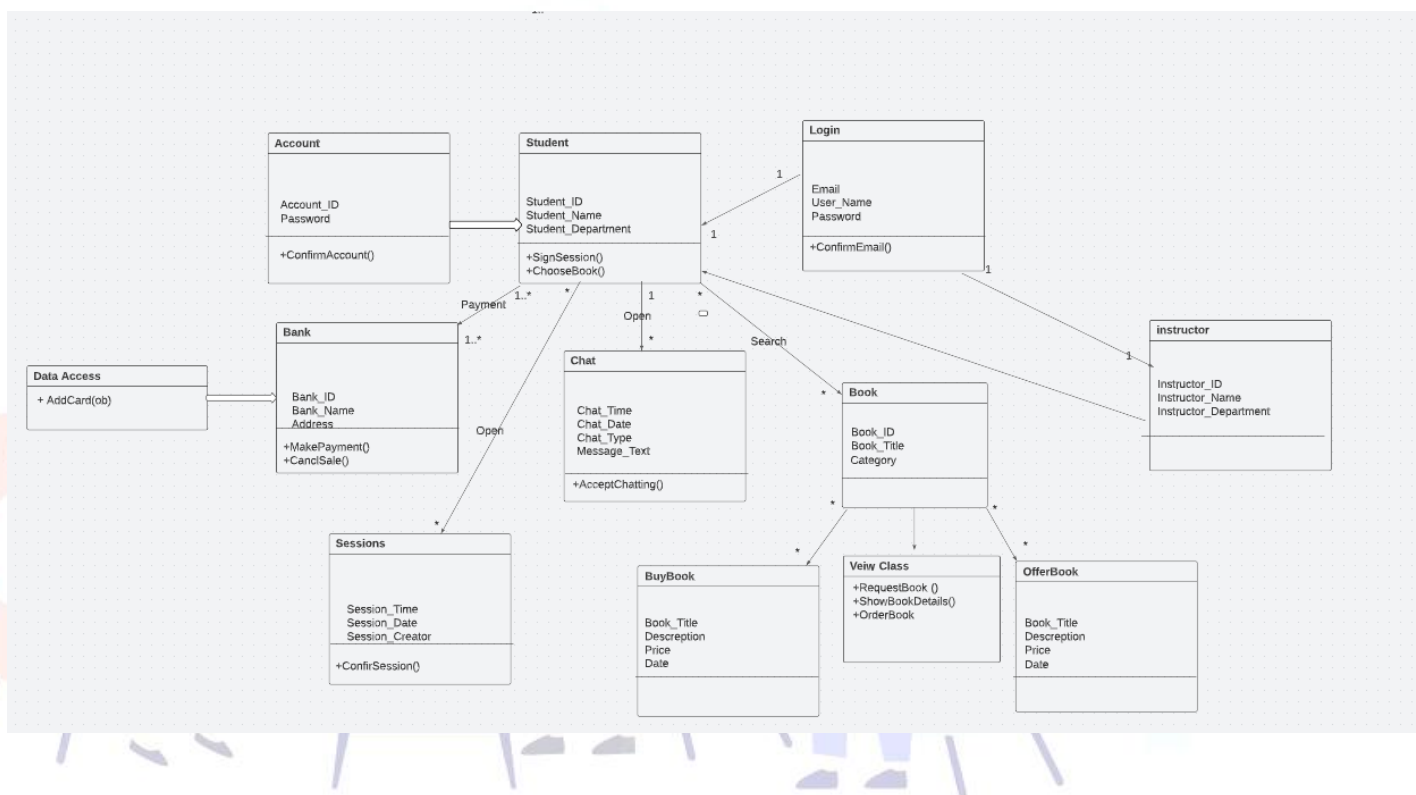
B. For starting a chat



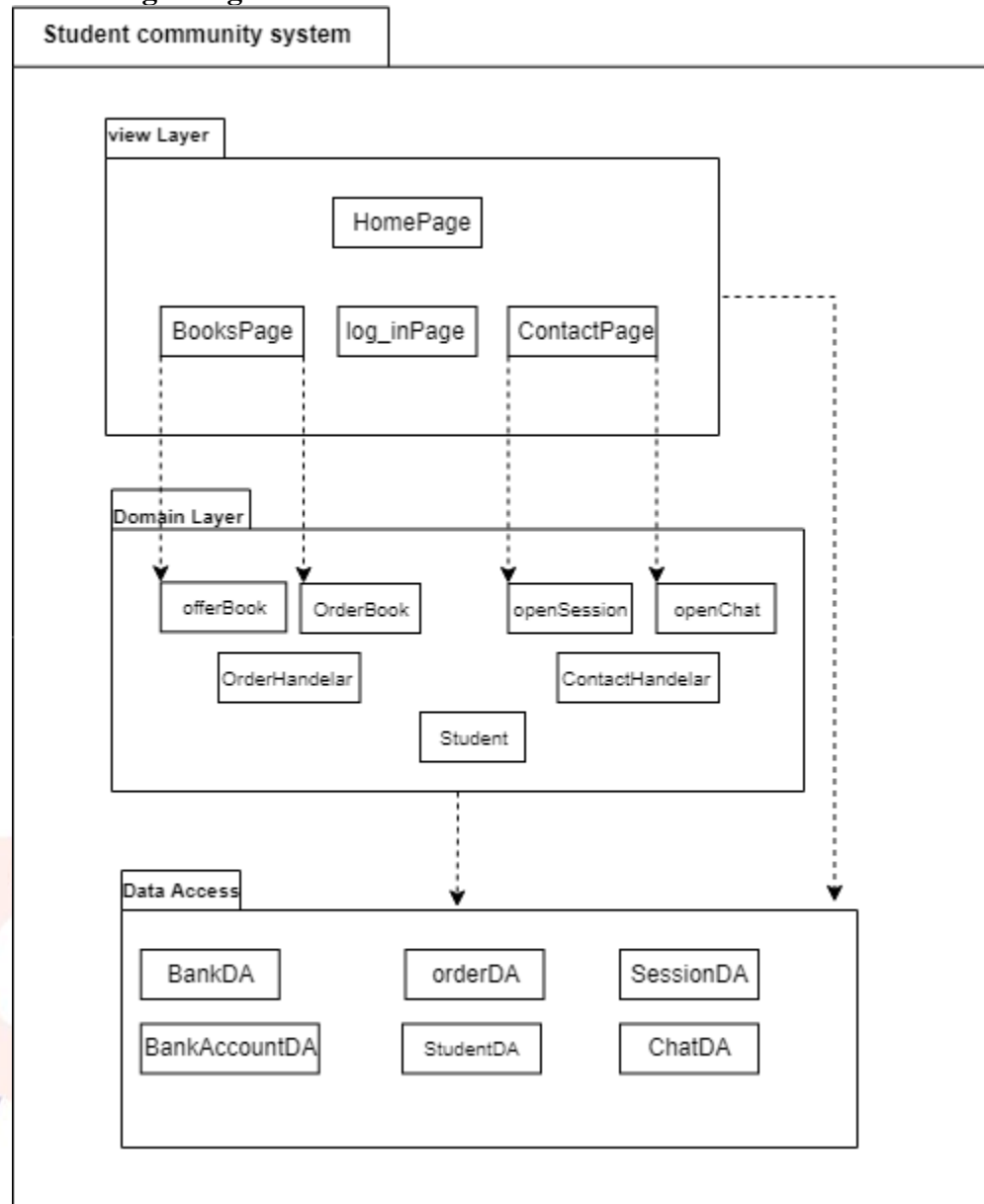
2.4 Communication Diagram (for any major use cases)



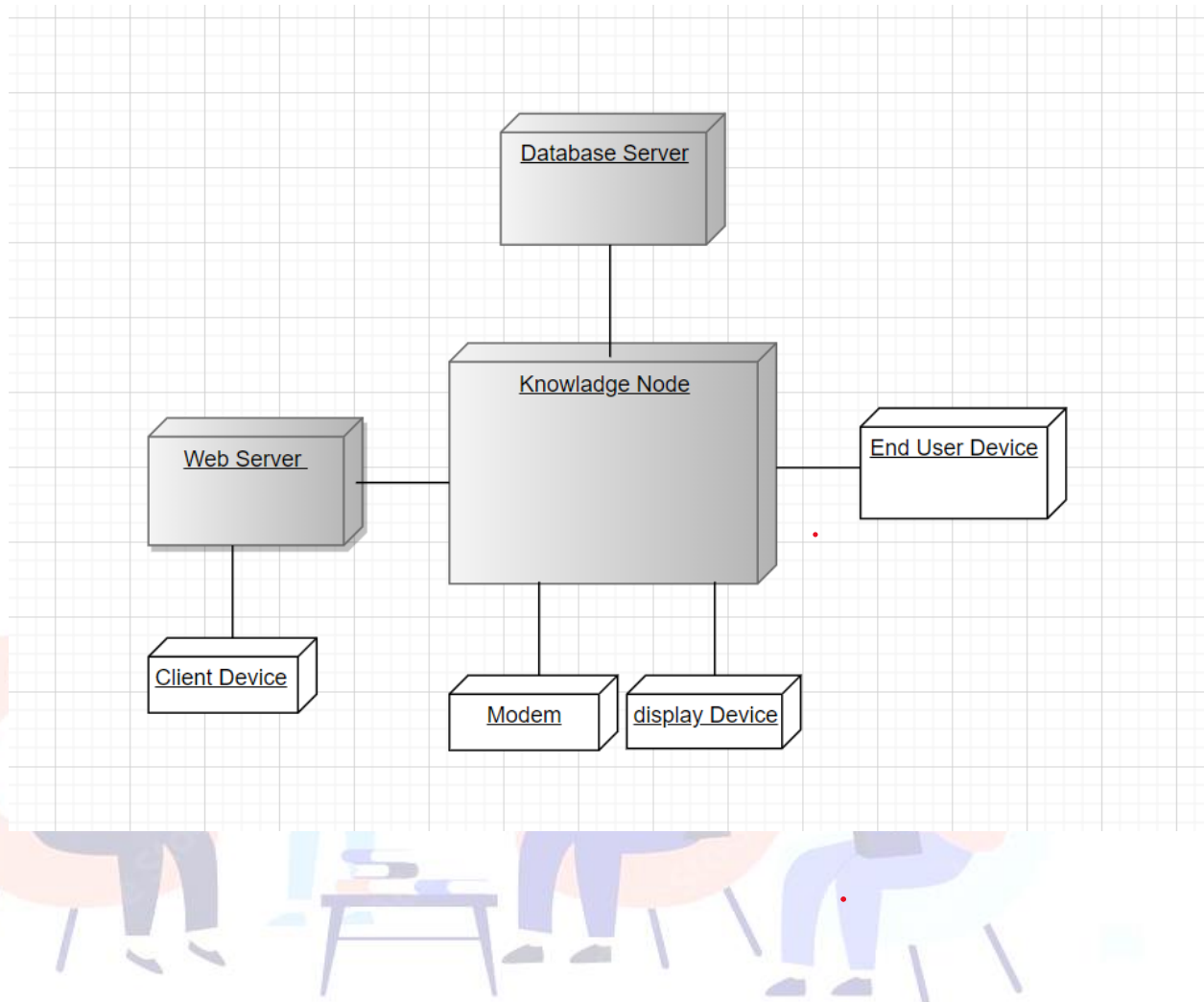
2.5 Design Class Diagram (Last updated version)



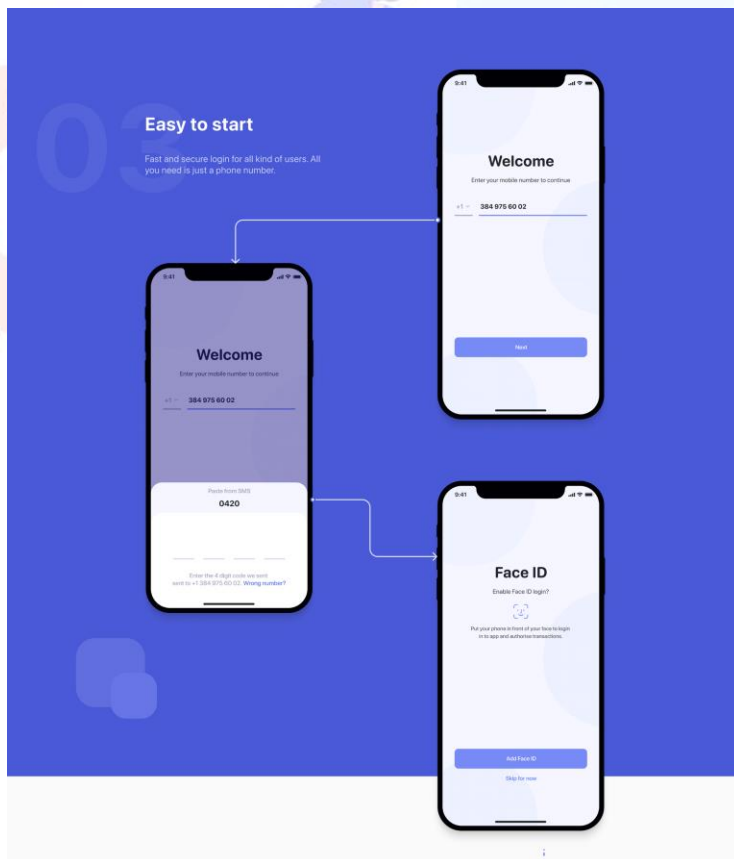
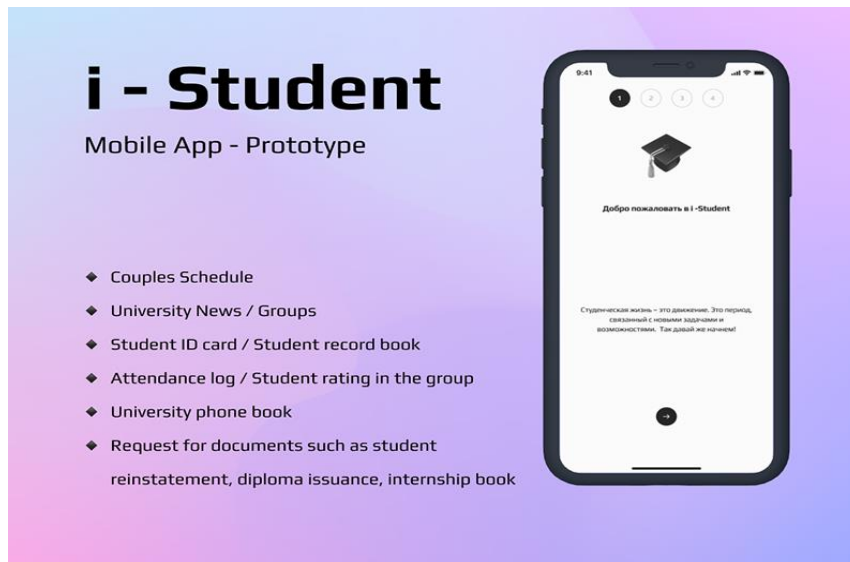
2.6 Package Diagram



2.7 Deployment Diagram



2.8 Interface Design



2.9 Conclusion and References

In conclusion we have everything covered for the student community system, in which the students will be helping each other in this app, by sharing the experience in the private and public chat.

The seniors also will be helping others by publishing announcement for jobs or courses that they will be needing it for the future. Also there will be an interaction between the students and the instructors in public or private chats for any questions about anything in or out the courses, it might be about senior projects or experiences questions.

The instructor will be as an administrator to help the student and watching them form any cheating or taking the credit of work they never do.

References:

References for the course [Software Engineering \(2IP30\)](#).

- [History, General](#)
- [Requirements](#)
- [Modeling](#)
- [Design, Architecture](#)
- [Construction](#)
- [Project Management](#)
- [Tools](#)
- [Configuration Management](#)
- [Verification, Validation, Testing](#)
- [Quality Management, Metrics](#)
- [Maintenance](#)
- [Process](#)
- [Miscellaneous](#)

