

A plus

44

- غيد
- منيرة الكلثم
- نوره القاسم

Section : 7c1



what is A plus



The application aims to make it easier for university students to find teachers specializing in all subjects related to the university by providing the services of private teachers in the application with ease and high efficiency

Why A plus ?

Many students suffer from not understanding their lessons. They also get lost searching for sources that explain their lessons to them. So we made A plus.

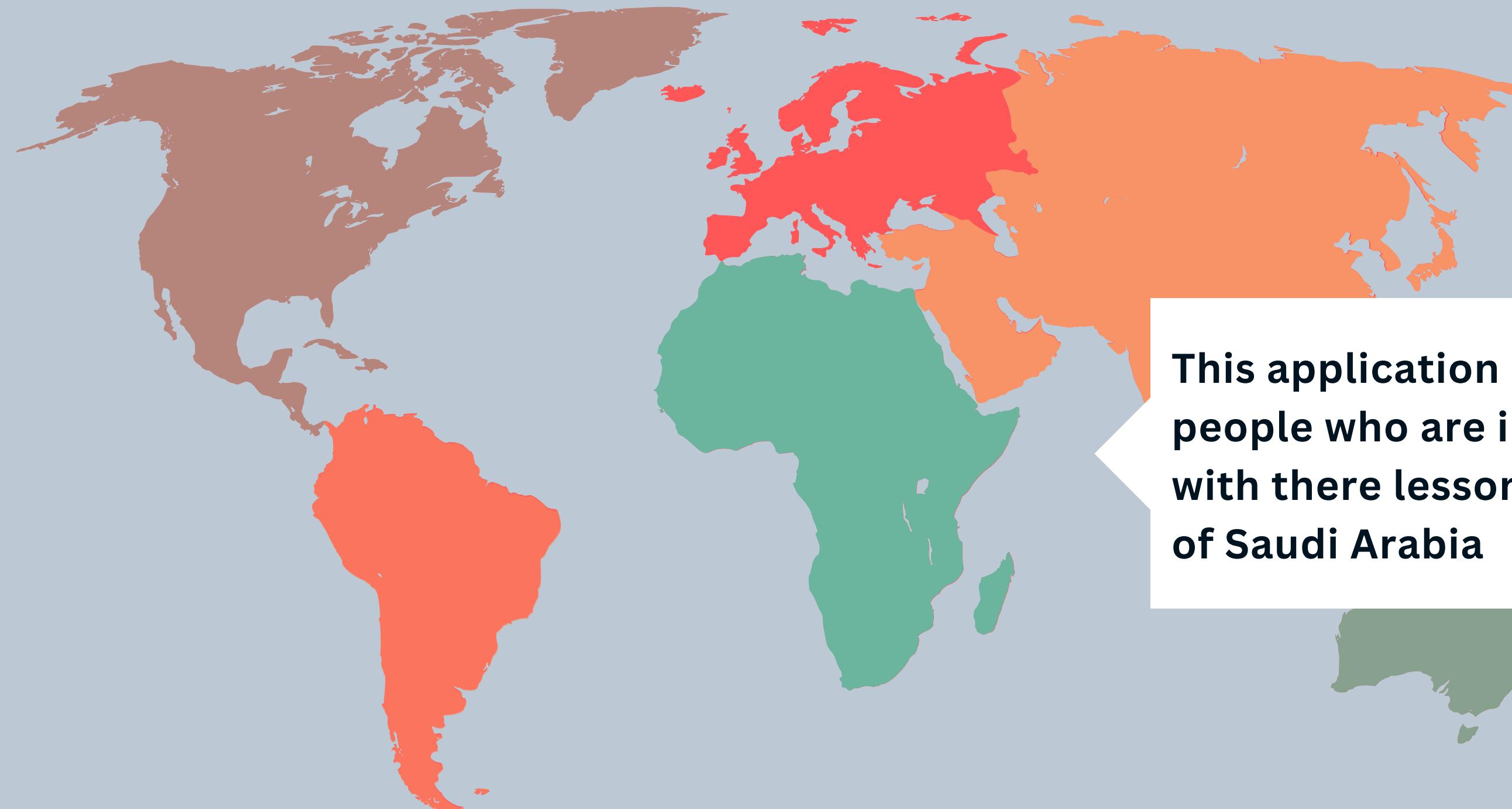


- An application that brings together university students and private teachers. The application also includes many universities from which you can choose. Then choose the lesson to find a private teacher for the class and determine the method of attendance, in person or online. Thus a lot of time and effort is saved.

The Solution :



A plus Domain and limitation



**This application is for the
people who are in need for help
with there lesson in the kingdom
of Saudi Arabia**

Functional Requirements



The user shall be able to view all of the teachers in the system.

The system should display all teachers to the user, so that the user can choose his teacher and view all subjects affiliated with his teacher.

The user shall be able to select the method of attendance

The system display of method attendance onsite or online.

The user shall be able to communicate with the teacher in the system.

The Teacher can communicate with user from phone number , Email , chat in the system

The user shall be able to select the university.

The system should display all universities to the user, so that the user can choose his university and view all subjects affiliated with his university.

The user shall be able to create an account in the system.

The system must register using username and add a password of 8 numbers including at least one uppercase.

Non- Functional Requirements



Availability

The application should be available for all operating systems such as IOS and Android.

Security

The password should be strong, must include one capital letter and one small letter, and does not allow consecutive numbers.

easy to use

The application should be easy to use and aesthetically pleasing and Follows gamification methodology for ease of use and enjoyment.

Performance

The System malfunction should not exceed five seconds on one day.

Robustness

The application should be allowed for reservations 24/7. Any defect is not allowed to cancel any reservations, reject them, or not complete them.

Use case:

01

Login

To Enter the system

02

Class reservation

To Book a class for student

03

Cancel Reservation

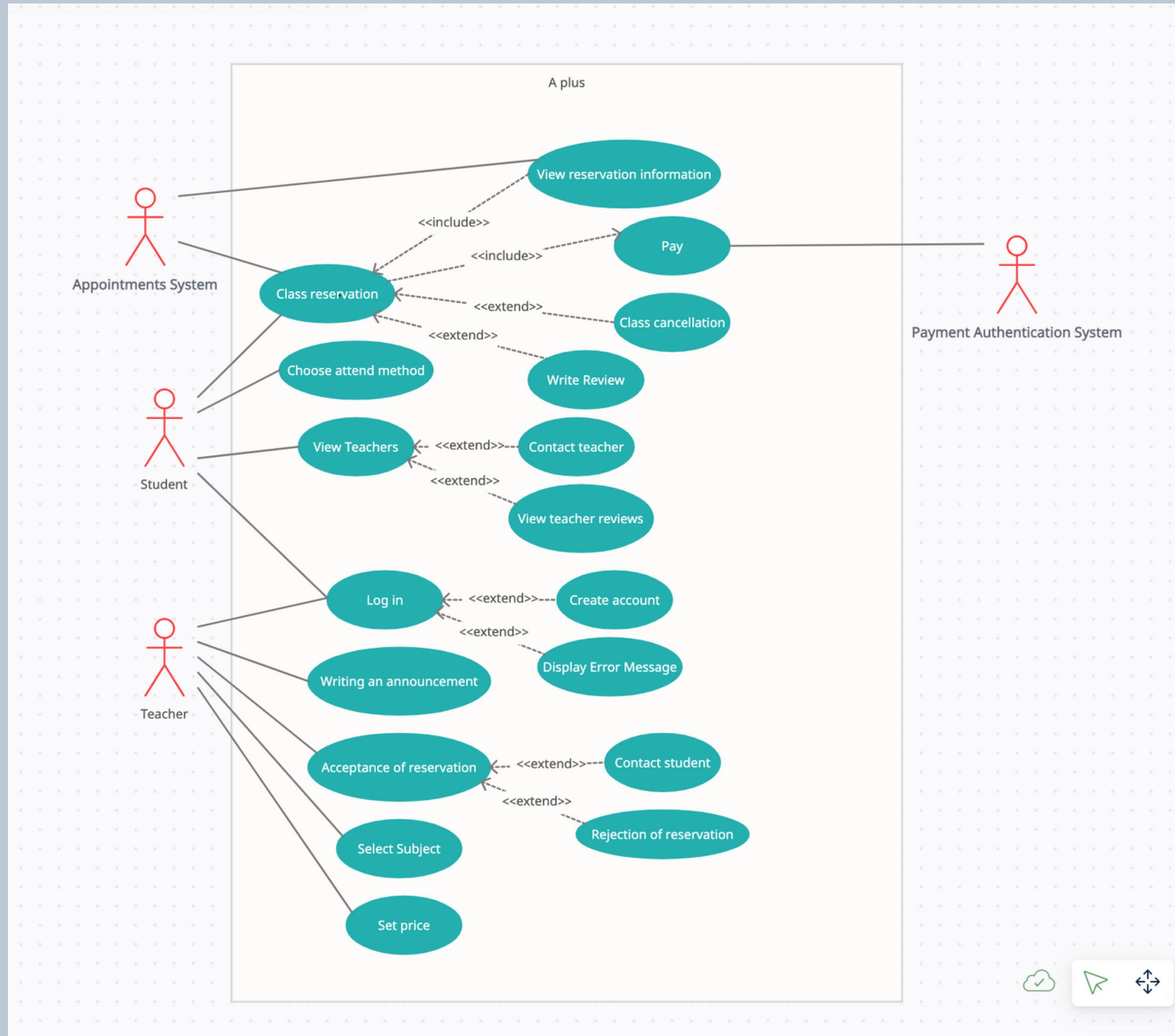
To cancel reservation for
student

04

set the price

teacher set the price of the
class

Use case:



Use case: login

GOAL: To Enter the system

Actors: User

Precondition: The user has an account

- Main Success Scenario:

1. The user will choose a Student or Teacher
2. The user will enter their Username, and password
3. The system will verify whether the account is already registered in the application.

- Extensions:

- 2.a. The user Enter the wrong Username

1. The system will display a message showing that the Username is not found
2. User can press create account button

- 2.b. The user Enter the wrong password

1. The system will display a message showing that the password is incorrect
2. The user can press forget password button

Postcondition: Search for a Teacher



Use case 2 : Class Reservation

GOAL: Book a class for student

Actors: User , Appointment system, payment authentication system

Precondition: successful login

- **Main Success Scenario:**

1. The student chooses the university, subject and method of attendance
2. The system will display a list of teachers who teach this subject in order according to the required attendance method
3. After selecting the teacher, click on the Book a class button
4. Determine the number of students and the date and time.
5. Send a reservation request to the teacher
6. If the request is accepted, the system will show the payment method

- **Extensions:**

- 6.a.request has been rejected
 1. The system will send a message to the user to inform him about the status of the request

Postcondition: contact the teacher



Use case 3:Cancel Reservation

GOAL: To cancel reservation for student

Actors: User ,Appointment system, payment authentication system **Precondition:** User login to his account and has a class reservation.

• Main Success Scenario:

1. System displays the list of registered class.
2. User selects the class that he wants to cancel.
3. System confirm the request of cancel.
4. System returns the money to user.

• Extensions:

1a. user requests cancel the class after the cancellation time expires

1.The request will be rejected

Postcondition: Cancel reservation has completed



Use case 4: set the price

GOAL: teacher set the price of the class

Actors: User

Precondition: User login to his account, select subject, and method of attendance • **Main Success Scenario:**

1. The teacher sets the price for one student.
2. Price will be set for each session either an online class or onsite
3. The teacher will locate the class for the students who choose to come to the site

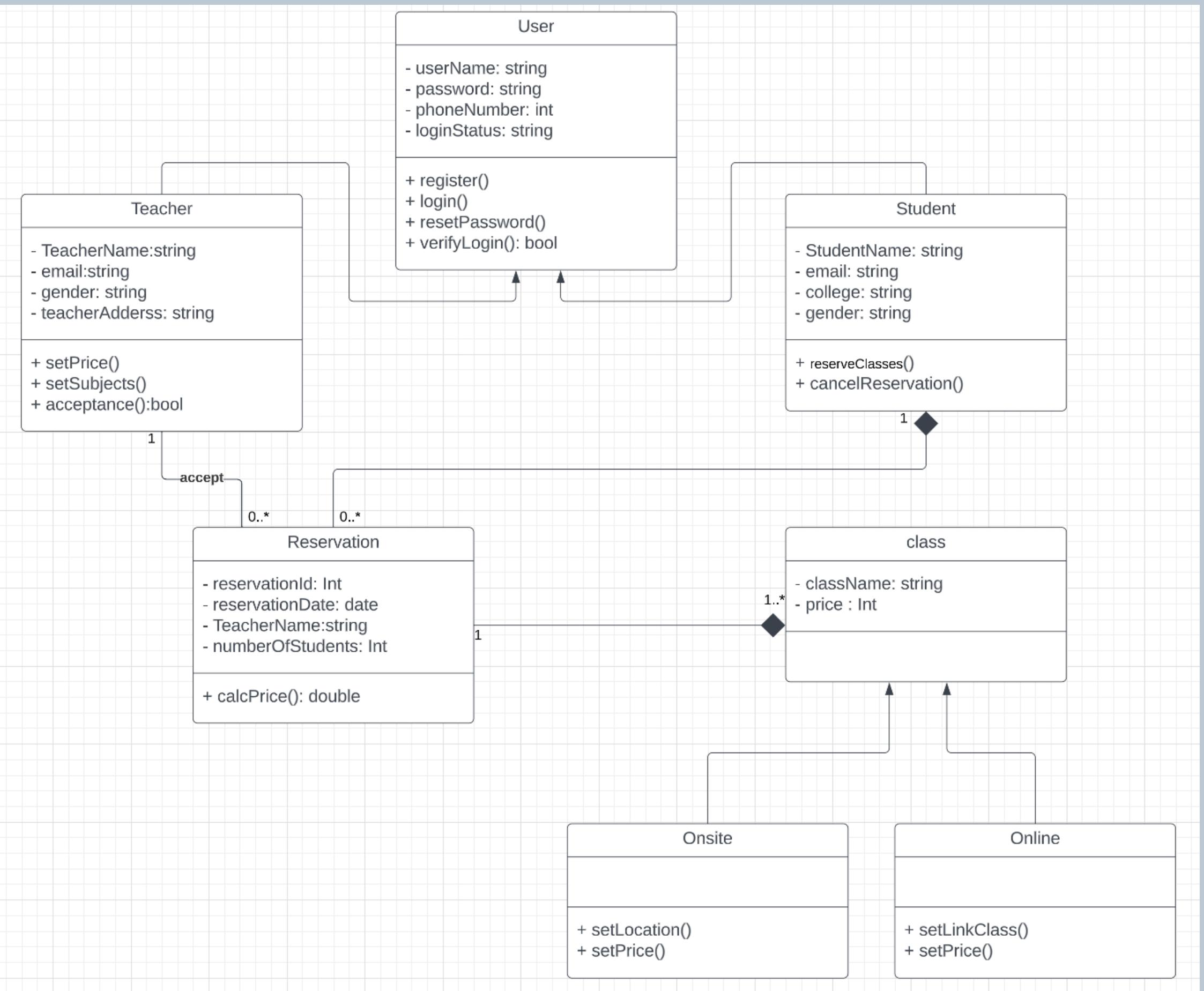
Postcondition: The teacher can start taking reservations

• **Extensions:**

- 1.a. If a group of more than 5 students, the system will give them a 5% discount.

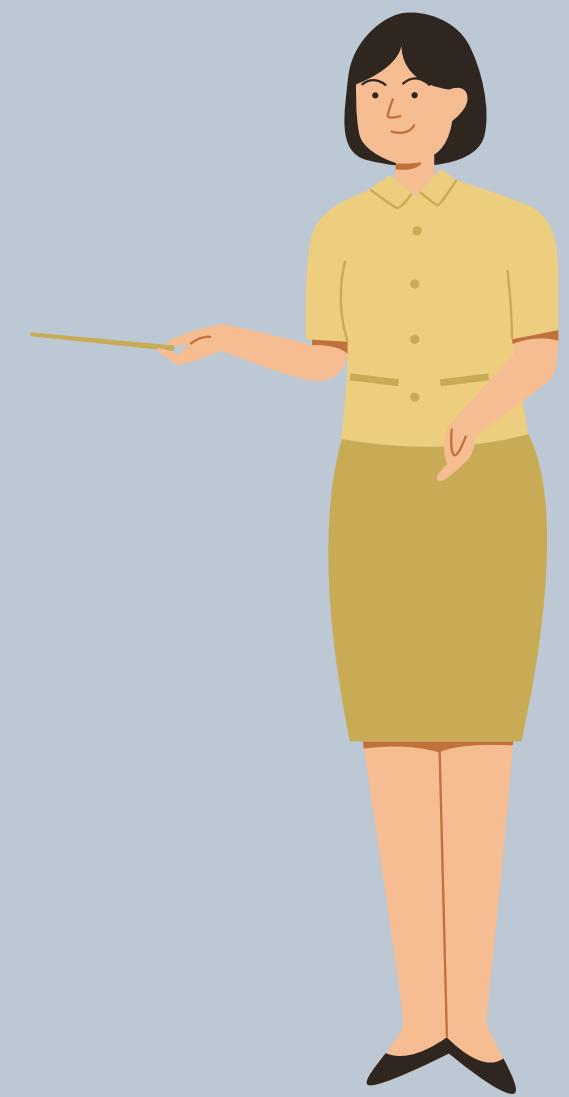
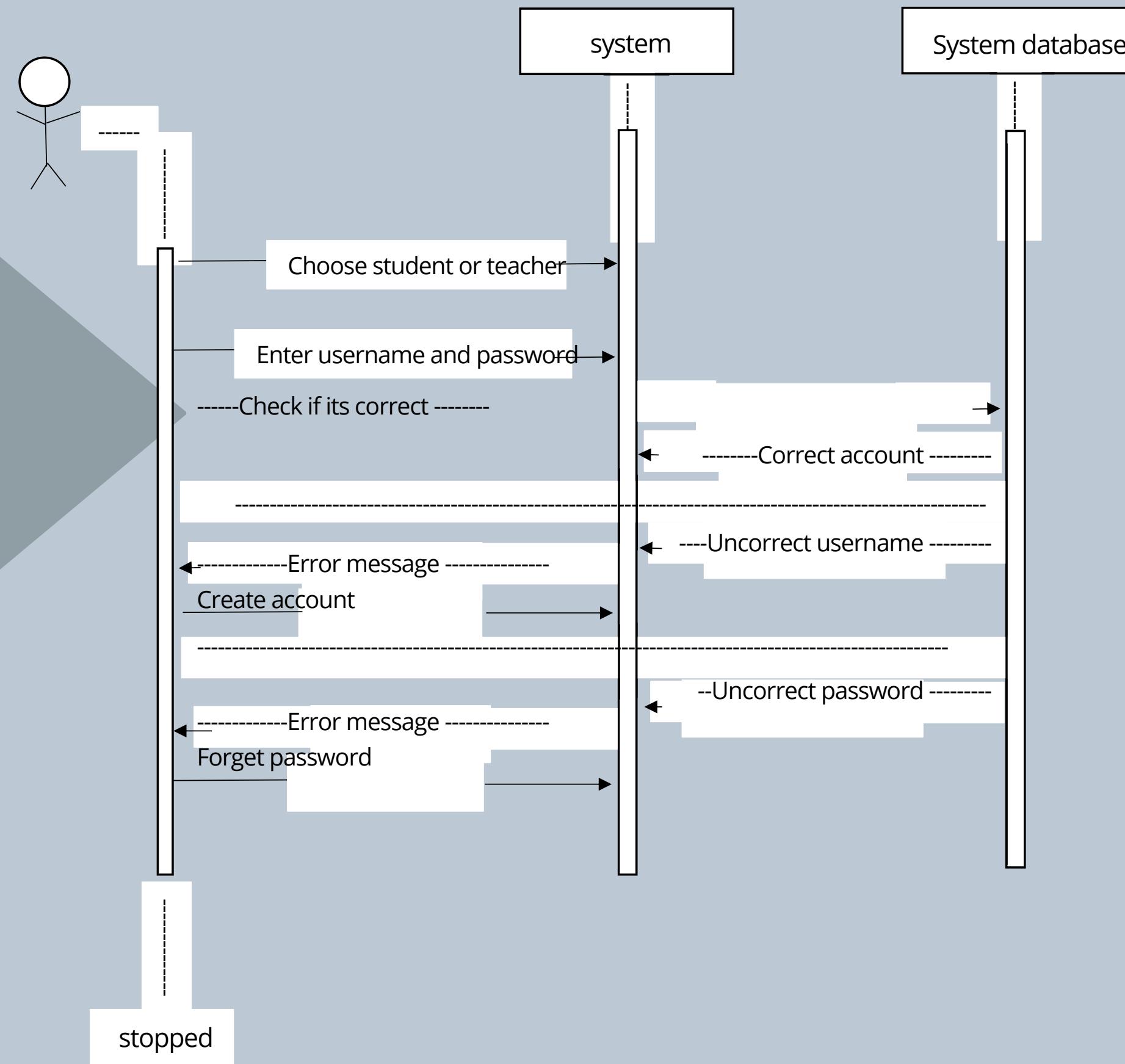


Class diagram

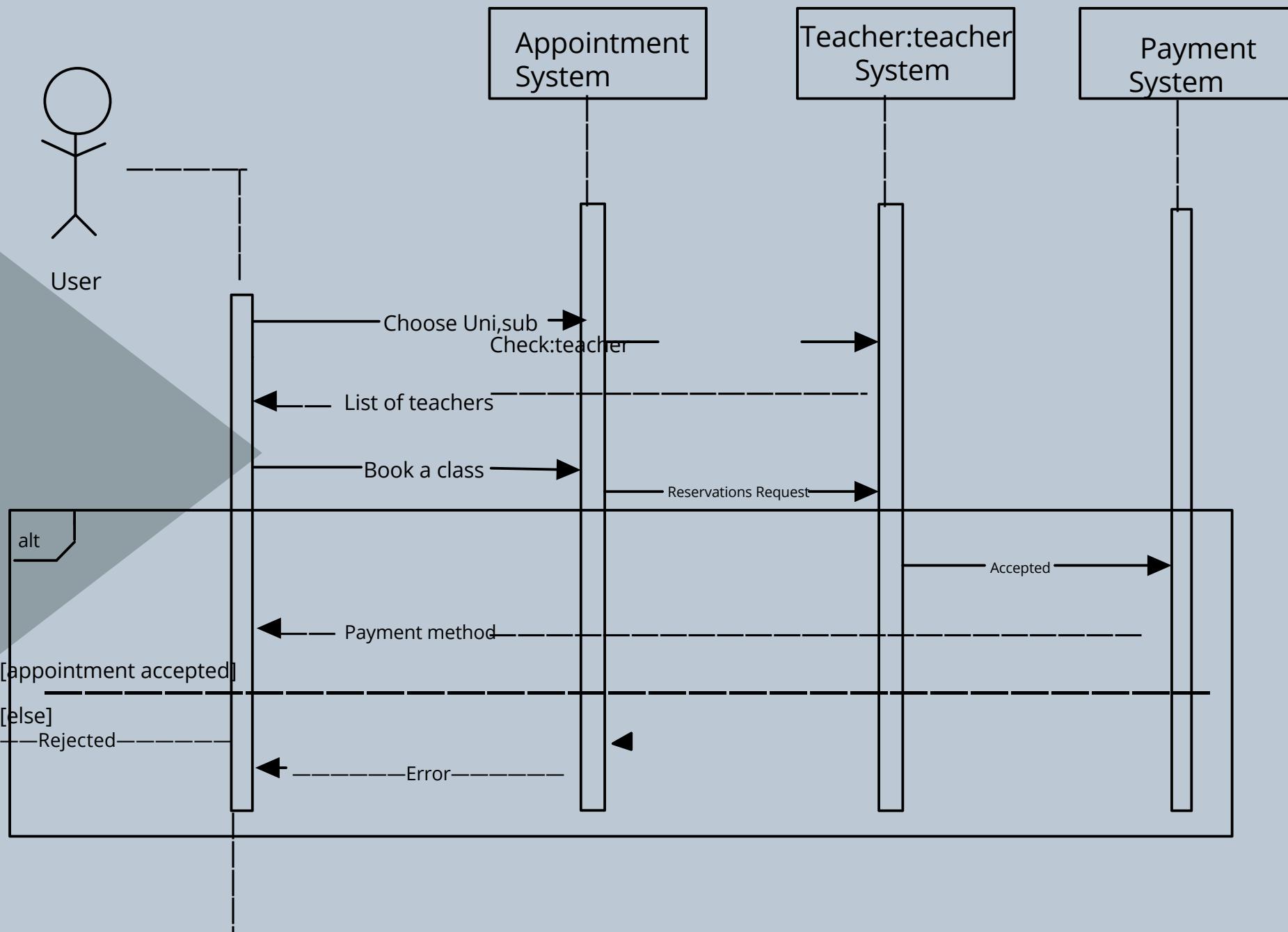


Sequence diagram

Login

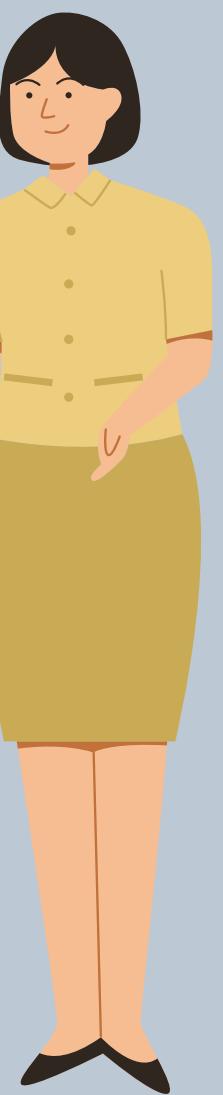
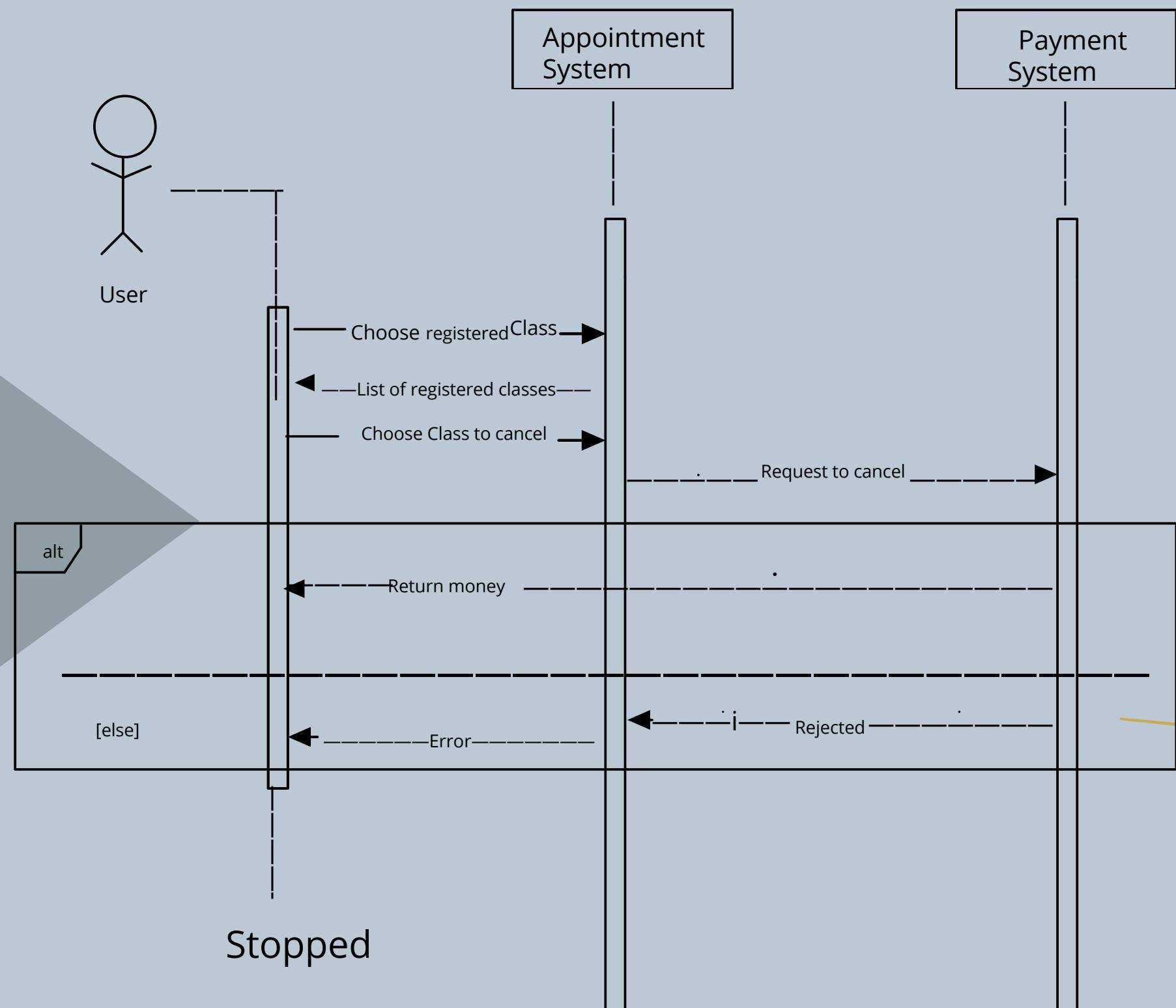


Sequence diagram Class Reservation



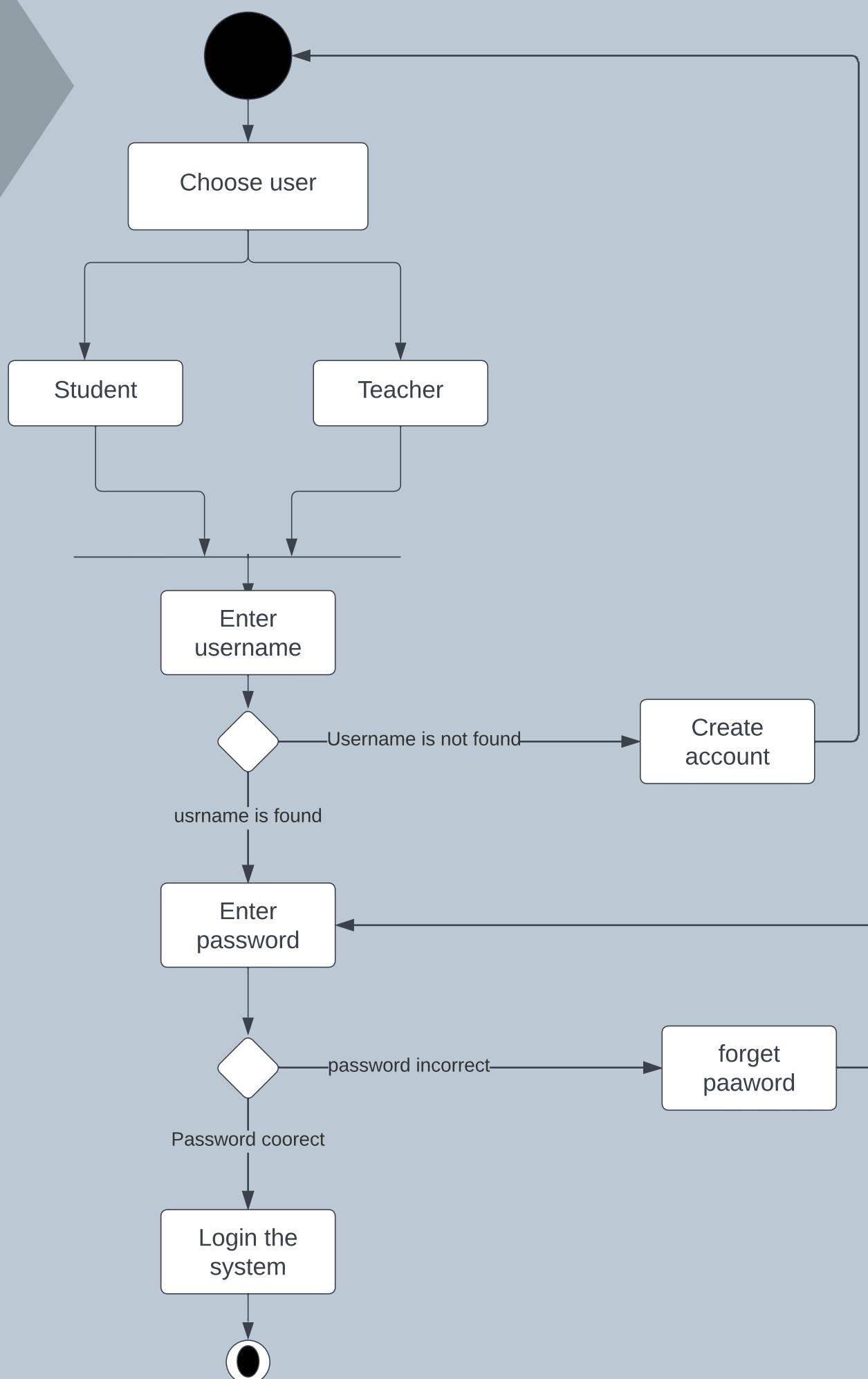
Sequence diagram

Cancel Reservation



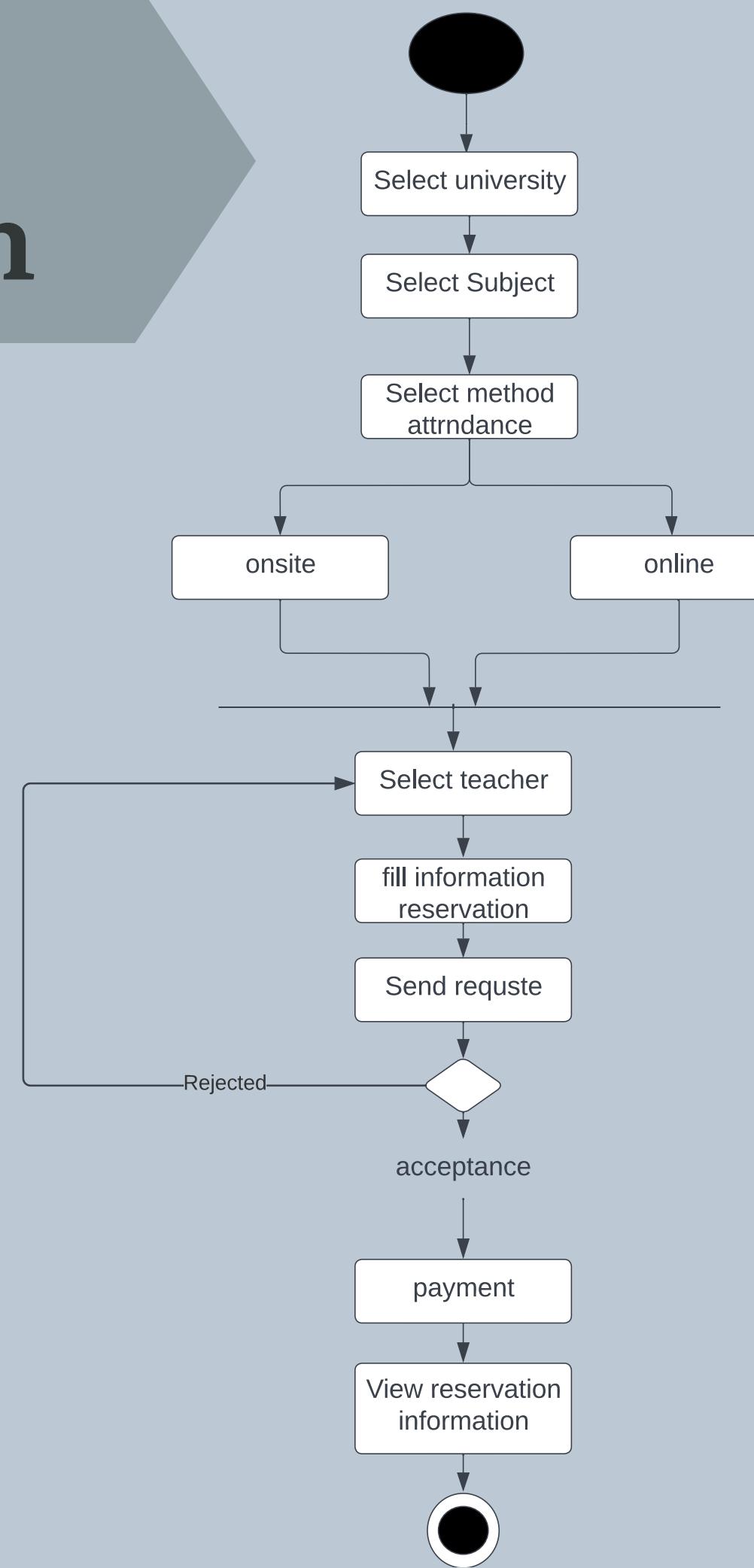
Activity diagram

Login

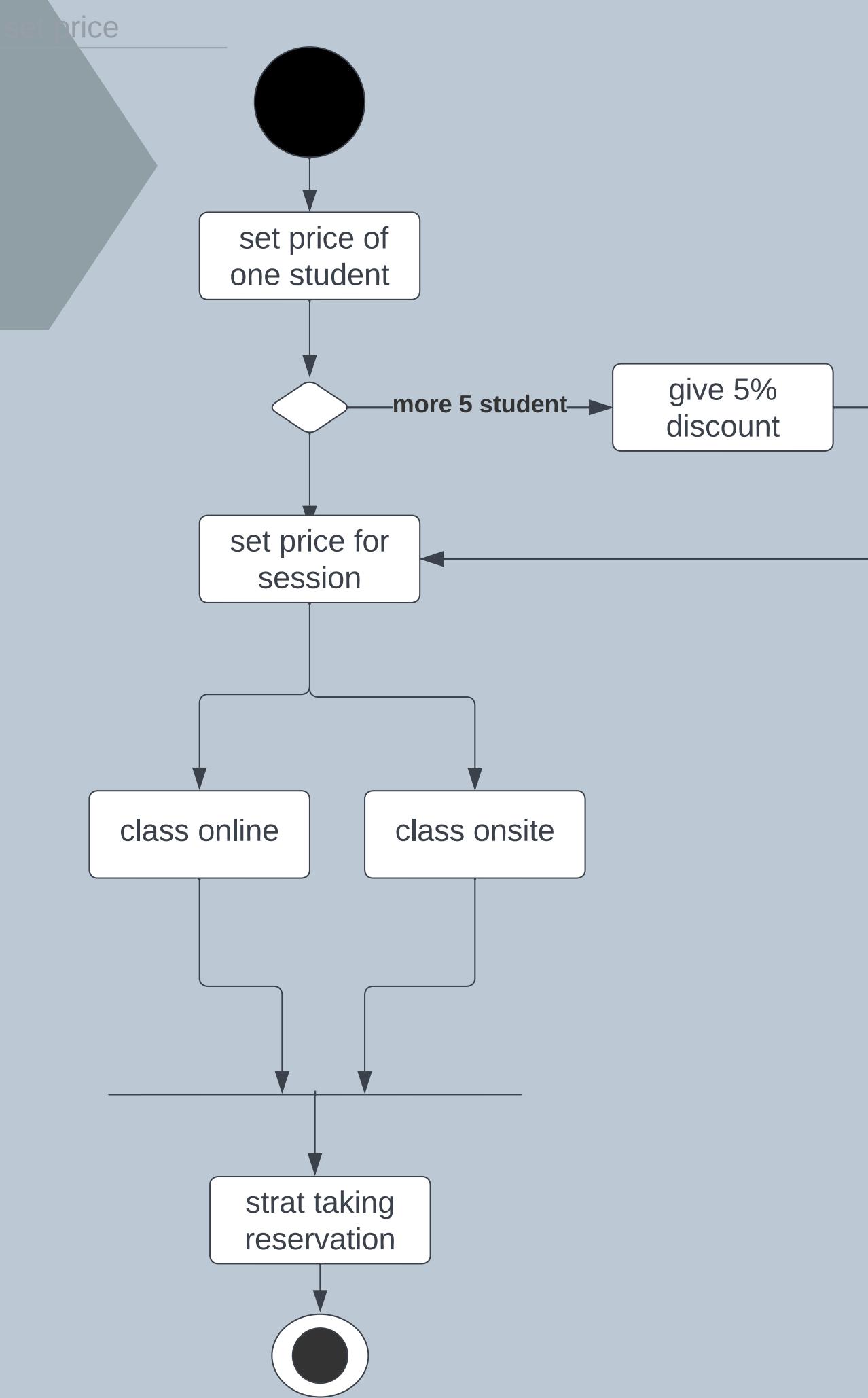


Activity diagram

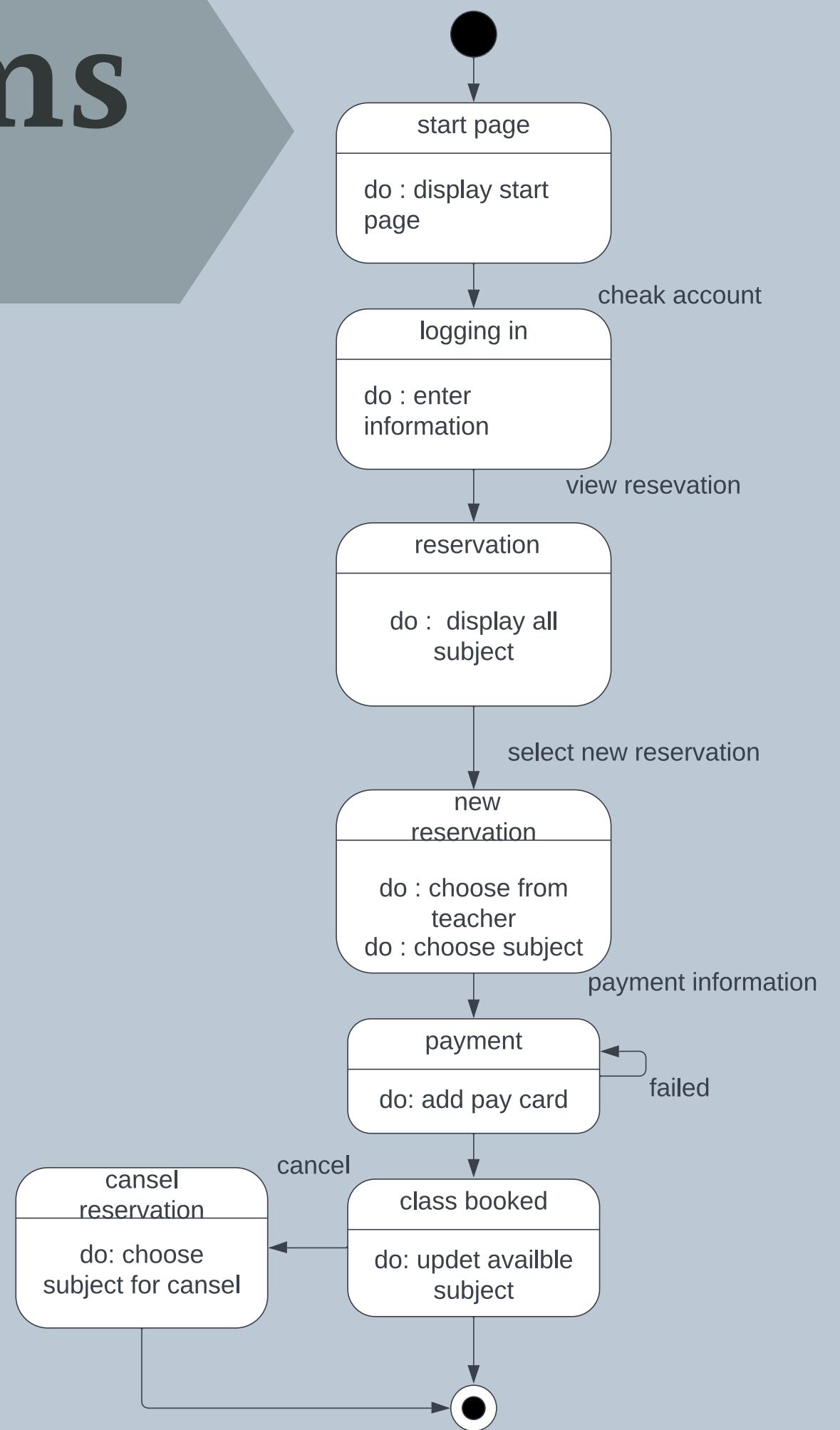
Class Reservation



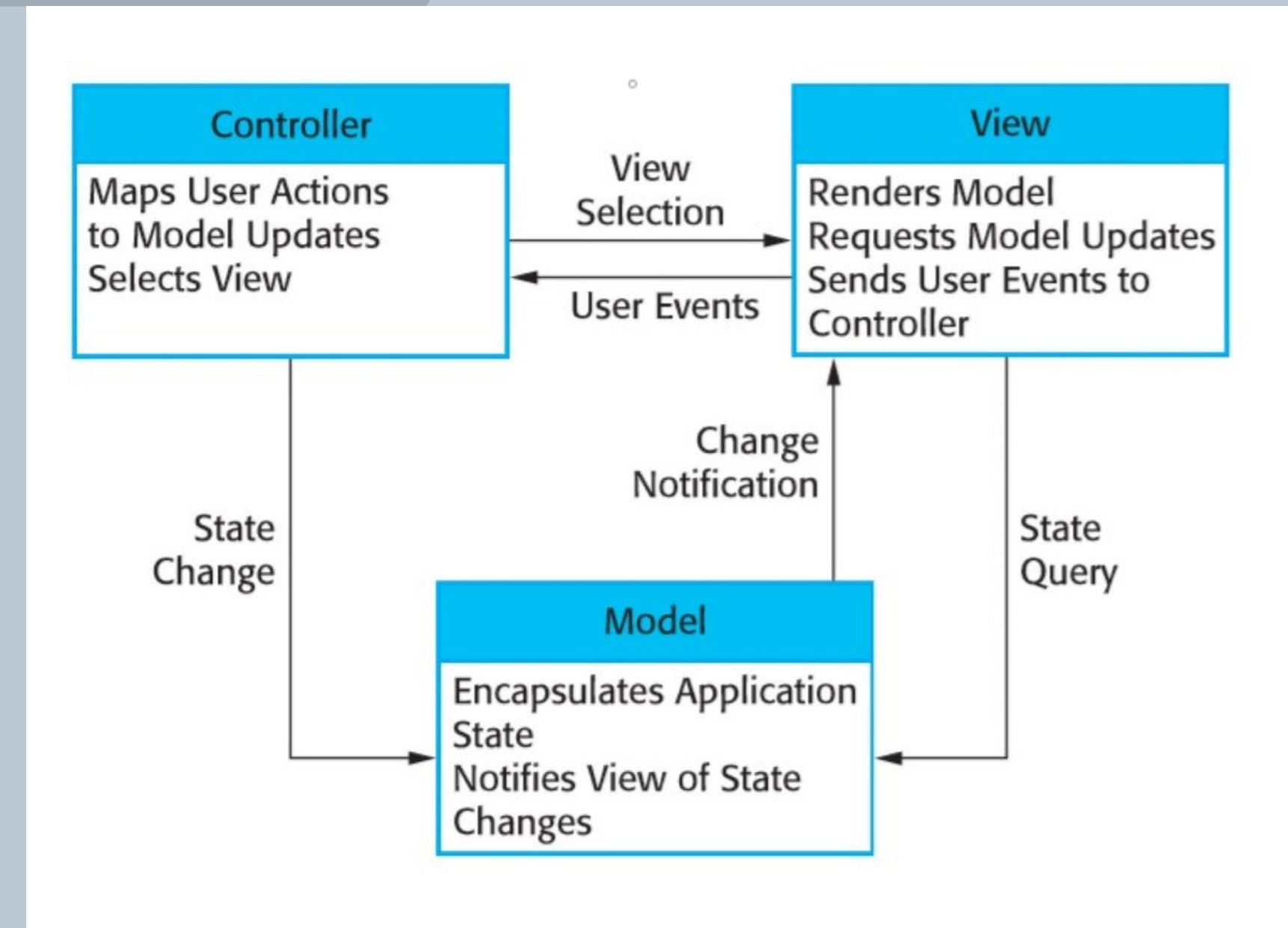
Activity diagram set the price



State diagrams



System architecture



conclusion, A plus system makes it easier for students who find it difficult in university subjects to help them understand and facilitate the subjects and obtain the highest marks.



Thank you for Listening

