Use Case Name: Book Bus

Actor(s): Student, Faculty

Main Success Scenario (Basic Flow):

1. User logs in to the College Bus Booking System.
2. User views the list of available buses including route, timings, and seat availability.
3. User selects the desired bus and seat.
4. System prompts the user to confirm booking details.
5. User confirms the booking.
6. System includes the payment process: user selects payment method and completes the payment.
7. Payment is verified and authorized by the system.
8. System updates seat availability and saves booking information.
9. System generates booking confirmation and sends a notification/email to the user.
10. Use case ends successfully with the bus seat booked.

Alternate Flow: Payment Declined

* At step 6, if the payment fails (e.g., card declined):
  + System displays a payment declined message.
  + User is prompted to try another payment method.
  + User retries payment up to 2 more times.
  + If payment fails after 3 attempts, system cancels the booking process.
  + System notifies the user of the cancelled booking and suggests alternative actions.
  + Use case terminates unsuccessfully.

Preconditions:

* User (Student or Faculty) has a valid login account.
* Bus schedules and seat availability are updated in the system.

Postconditions:

* Booking is either confirmed (upon successful payment) or cancelled (upon payment failure).
* Seat availability is updated accordingly.
* User receives booking confirmation or cancellation notification.

Acceptance Criteria:

* Booking and payment processes complete within 10 seconds.
* User receives notification email for booking confirmation or cancellation.
* Seat availability reflects the latest booking status immediately.