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Name: _____
ID: _____
Section: _____

Daffodil International University
Fall 2025 – CSE315 Software Engineering
Quiz 2
Total Time: 30 minutes

Scenario:

The company **AmarGari** operates an online platform for booking rental cars. Users create accounts containing personal details and login credentials; some users act as customers who request bookings, while others are employees who review and approve or decline them. Cars are kept in fleets belonging to different branches across the city and are relocated between branches depending on seasonal demand, although these transfers are handled outside the booking system itself. Each booking is made by a single customer for one car within a specified date range, and only approved bookings can proceed to payment. Customers may receive promotional emails or mobile notifications reminding them of upcoming bookings, but these communications are sent by an external marketing service not modelled by the system. Once payment is successful, the system automatically generates an invoice for the booking and sends it to the customer.

Question 1 (7 marks)
Draw a BPMN diagram for the process of handling a booking from customer request to invoice generation based on the scenario above.

Question 2 (8 marks)

Draw a UML class diagram for the system described above.

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