



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Mid-Term Examination, Semester: Summer 2017

Course Code: CSE333 Course Title: Software Engineering

Section: All Course Teachers: All

Time: 1:30 hours

Full Marks: 25

In the eve of Eid, it is really hard to obtain a bus or train ticket. All the bus terminals and train stations are flooded with people wanting to go home. To make it easier to obtain a bus or train ticket, we are going to build an online portal. In this system anyone can buy a bus or train ticket or check the schedules.

In this system, any interested traveler first selects by which means they want to travel. Then they can check the schedule or buy the ticket. To buy ticket, traveler needs to provide place, date and time of travelling and then search. The search result will show the list of bus or trains at or around that time with the number of available tickets. Then the traveler have to select the bus or train he wants to travel in. Then he needs to provide his name, NID, phone number, terminal name and no. of tickets he wants to buy and then click confirm ticket. The system will automatically calculate the bill and ask for a payment method. He can pay by cash, card or bKash. A copy of the ticket will be sent to his email.

At the day of travelling, traveler must show the e-Ticket in the counter. The counter manager will match the ticket and collect the payment. Then he will send a final copy of the ticket to the traveler via SMS and email. Finally the ticket checker of bus or train must check the ticket and confirm that the traveler is traveling with them. Traveler can also cancel the ticket but it must be done at least 6 hours before departure.

N. B. Please do the necessary assumptions to support your answer.

Question:

1. Provide Use Case Model of the software requirements described above. 12
2. Give detail description for the Use Cases 'Search Ticket' and 'Confirm Ticket'. 6
3. Propose an appropriate GUI for the process of Buying a ticket. 7

Good Luck ☺