



**Daffodil International University**  
**Department of Computer Science and Engineering**

**Faculty of Science & Information Technology**

**Final Assessment, Spring 2021 @ DIU Blended Learning Center**

**Course Code: CSE417 (Day), Course Title: Web Engineering**

**Level: 4 Term: 1 Section: P, Q**

**Instructor: CAA Modality: Open Book**

**Date: Sunday 19 April, 2021 Deadline: 20 April, 2021(11.59pm)**

**Marks: 40**

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**Directions:**

- **Students need to go through the CASE STUDY shown in this exam paper.**
- **Analyze and answer specific section based on your own thinking and work.**

[1] Consider an online reservation system for a bus company named “**Uthshob**”. Uthshob includes several buses and arranges trips to different cities of Bangladesh. Each bus is identified by a separately assigned bus number and its license plate number. The trips are based on a predefined schedule and stop at predefined bus stations. Each bus can have one trip per day. Each bus includes a driver and one assistant. For long trips, the bus will have breaks at service and rest areas. There are two types of trips, normal trips and express trips. Express trips do not stop at intermediate stations and reach faster at the destinations.

Seats can be reserved by the passengers on the website. The passenger has the option to directly pay for the seat through the website. In that case, the seat cannot be cancelled (neither by the passenger nor by the bus company). If the passenger has not paid for the seat, the bus company staffs can cancel the seat if the passenger does not show up one hour before the trip. When the reservation is cancelled, the seat will become free and can be sold to another passenger. Both the passengers and the company staffs must authenticate themselves for performing operations with the system.

- How will you design the Project Management Activities of this above system?
- Which features will you add in this mentioned system to satisfy the mentioned service in the above statement?