



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Final Examination, Semester: FALL 2017

Course Code: CSE333

Course Title: Software Engineering

Section: All

Course Teachers: All

Time: 120 minutes

Full Marks: 40

Read through the following high level requirements:

Hotel Palace is a very renowned hotel in Bangladesh. Their services are so good that they have a growing number of tourist coming at their hotel every year. To make their services easier they want your help to develop a CRM system.

In this CRM system, Customer can check in to the hotel. Customer has ID, name, cellphone, address and room number. Customer can also check out, pay bill and order food item. Receptionist book room for customer after checking room availability. Receptionist has ID, name cellphone and address. Every room has room no. and location. At the time of ordering food, customer choses food items from menu and places food order. Every food order has ID, name and price. Chef accepts order from customer and he has ID, name and location. When the food is ready, it is sent to the customer via House Keeping Staff who has ID, name and location. House Keeping staff also cleans room.

At the time of checking out, receptionist generates bill for customer. Every bill has bill no., customer name and amount. Customer can make complaints or give feedback about the hotel services to the Manager. Manager has name, ID, cellphone and location. Manager manages hotel staffs and purchases inventory. Every inventory item has type, status and quantity.

N. B. Please do the necessary assumptions to support your Proposed Model which also includes data types.

Question:

1. Provide object model for the proposed high level requirement specification. 20
2. Propose a GUI for booking room, ordering food and bill payment. 6
3. Write at least 4 test cases based on the proposed GUI. 8
4. Draw a BPM for Checking in and bill payment. 6

Good Luck ☺