



## **NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

### **DEPARTMENT OF SOFTWARE ENGINEERING**

COURSE TITLE: DATABASE MANAGEMENT SYSTEMS

PROJECT TITLE: GUESTHOUSE DBMS

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## **Guesthouse Database Management System**

### **Problem Statement:**

This project will help a manager of a particular guest house to maintain reservations. The system will help to keep records of all the payments done by the guests, the penalties charged, and also the maintenance done by who, what kind and how much was charged. The staff data is also maintained which states who served which guest and how much was charged for it.

The system also keeps data of extra services like laundry, rent-a-car, tour guide and assigns them to the guests per their request. And also taking feedbacks of the guests as to improve the service.

### **Entity Relationship Diagram:**

#### **Assumptions:**

1. One guest, at a time, can make one reservation only (as there is only one guest house).
2. It is mandatory for the guest (who's booking the guesthouse) to give feedback at least ONCE.
3. One guest can give multiple feedbacks.
4. Multiple penalties may be applied on a single bill.

5. The subclasses (RentACar, TourGuide and Laundry) have been inherited (IS-A Relationship) from the class “service”.
6. Apart from RentACar, TourGuide and Laundry, there are other services as well which include housekeeping, security, etc.
7. It's not necessary that all staff does maintenance.
8. One staff member can do multiple maintenances.
9. One guest can acquire multiple services.
10. Only authorized user (Admin/Manager) can access the management system.

### EERD:



