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**PROJECT PROPOSAL**

**Topic: Comprehensive Hotel Management System**

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**Group members:**

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* **Laiba Imran i23-5502**
* **Eman Fatima i23-4577**
* **Rida Nadeem i23-5523**

**Overview:**

The CHMS project is designed to be a multi-module C++ application with the goal of offering a complete solution for handling different hotel operations, such as reservations for rooms and outside services like transportation. Every module is made to work together harmoniously as part of a larger system, offering hotel employees effective management tools and a smooth user experience.

**Types of modules:**

Our project consists of basically four modules the 1st module which is **“Room booking and management”**, the 2nd module is **“Room Services”**, the 3rd module is **“Facility Reservation”** and the 4th and last module is **“External Services”**.

**Module 1: (Unza)**

* **Room Bookings:** The guests can search for available rooms, enter their preferences on which type of room they want, that is single, double, suite, and calculate the prices according to the number of days the guest wants to stay. The system will provide detailed booking options to the guest.
* **Check-ins/outs:** Streamlines the check in and check out process, calculates the price at check out as well.
* **Room availability:** check for room availability, if a room is available book the room only then otherwise ask the user to enter room number again.

**Module 2: (Laiba)**

* **Laundry, cleaning and ironing:** The guest can request these services from the system specifying specific instructions. The cost of all these services will be then calculated as well based on the services provided.
* **Food Booking:** Allows guests to order food from the hotel’s menu, including the item prices in the menu. The prices are then added in the bill.

**Module 3: (Rida)**

* **Booking facilities:** Guests also have the privilege to book facilities such as gym, spa, etc. the system shows availability of these facilities and takes hourly bookings as well.
* **Charges calculation:** Automatically charges the guest for all these facilities based on the how much time it has been used, the charges are then added into the guests bill.

**Module 4: (Eman):**

* **Transportation booking:** Guests can book transportation services such as car rentals etc. and the time period for which the car is rented the cost price will be calculated for it.
* **Tourist guide booking:** Enables booking to guides for sight seeing on full day or half day payments.