Project Proposal

Project Title: Hostel/Hotel Management System

Course: Complex Computing Problem (CCP)

Semester: 1st Semester

Introduction:

The proposed project is a simple Hostel/Hotel Management System developed in C language. It will allow efficient room allocation, guest check-out, and rent calculation. The system will maintain records of customers and provide a menu-driven interface for easy navigation. This project demonstrates the use of arrays, structures, functions, loops, conditional statements, and file handling in C.

Objectives:

- 1. To allocate rooms to guests based on availability.
- 2. To manage guest check-out process and calculate rent based on the duration of stay.
- 3. To display room status (occupied/available).
- 4. To maintain guest details for record-keeping.
- 5. To demonstrate practical implementation of core programming concepts.

Scope

The system will be designed for small-scale hostel/hotel operations where room allocation and billing are required. Although simplified, the system will include options for different room types, basic guest details, and file storage for persistence. Future improvements may include advanced booking, payment records, and reporting features.

Proposed Features:

- Room Allocation (Check-in)
- Guest Check-out with Bill Generation
- Rent Calculation for different room types
- Room Status Display
- Guest Search Option
- File Handling for Data Persistence

Expected Outcome:

By the end of the project, a functional Hostel/Hotel Management System will be developed, which provides a practical demonstration of applying programming fundamentals to solve real-world problems.

Tools & Technologies:

- Programming Language: C

Compiler: GCC / Turbo C / Code::BlocksOperating System: Windows/Linux

Team Name: RentCalc Coders

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