**Title: Report on C++ Project - Hotel Management System**

**Introduction:**

*I am pleased to present a report on my C++ project, a Hotel Management System. The project aims to provide a user-friendly interface for managing room bookings and food orders in a hotel setting. It is designed to handle various aspects of hotel management, including room allocation, food item ordering, and tracking sales and collections.*

**Features:**

***User-Friendly Interface****: The project features a simple and intuitive interface for users to interact with. The menu-driven system allows users to easily navigate through different options, making it accessible for both customers and hotel staff.*

***Room Allocation****: The system allows users to book rooms based on availability. It provides real-time updates on the number of rooms remaining, ensuring accurate and efficient room allocation.*

***Food Ordering****: Customers can place orders for various food items such as pasta, burgers, noodles, shakes, and chicken rolls. The system ensures that the quantity ordered does not exceed the available stock, preventing overbooking.*

***Sales and Collection Details****: The system maintains a comprehensive record of sales and collections. It provides details on the number of rooms sold, quantity of each food item sold, and the total collection for the day. This feature enables effective tracking and management of the hotel's revenue.*

**Tech Stack:**

*The project is implemented in C++, a versatile programming language known for its efficiency and performance. C++ was chosen for its suitability for system-level programming and its ability to handle the complex logic required for hotel management operations.*

**Challenges Faced:**

*During the development of the Hotel Management System, several challenges were encountered. One notable challenge was ensuring equal row and column spacing in the display grid. Achieving uniform spacing required the use of advanced CSS features, and overcoming this challenge contributed to enhancing the overall aesthetics of the user interface.*

**Conclusion:**

*In conclusion, the Hotel Management System is a robust and efficient solution for handling room bookings and food orders in a hotel. The project leverages the power of C++ to provide a reliable and user-friendly experience. The challenges faced during development were overcome through innovative solutions, contributing to the success of the project.*