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| HOTEL  MANAGEMENT  SYSTEM |



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# An Overview of this Project

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| ABSTRACT   This project examines the aspect of the hospitality industry which is Hotel management. In the 21st century the use of the internet, computers and other electronic devices have made handling different jobs and aspects of management very easy. This project is the design and implementation of an electronic hotel management system that provides management of data in a centralized and also provides a user-friendly interface with which the user especially those who investigate the records of guests and their booking details. |
| In this project the details are maintained like guest details, booking details and billing details, booking the rooms vacating the rooms, etc. all are computerized and the management is done without any difficulty.  The reports can be viewed by the head of the management daily or weekly or monthly can review it. For company auditing, it will be more useful. Using the hotel management system, the following activities can be performed.   * Hotel & Room quality * Guest Details * Booking Details * Check-In * Check Out * Guest’s feedback * Staff information |

# METHODS

\* Database Creation:

The project begins by creating a database called "HMS" with appropriate file settings and initial table allocation.

\* Table Creation:

Tables are designed to store data for hotel, room, hotel-room relationships, guests, payments, and feedback. Primary keys, foreign keys, and constraints are defined for data integrity.

\* Alter, Drop, and Modify Tables & Columns:

The project demonstrates altering, dropping, and modifying table columns to adapt to changing requirements.

\* Create Clustered and Non-clustered Index:

Clustered and non-clustered indexes are implemented to improve query performance.

\* Create Sequence & Alter Sequence:

Sequences are utilized to generate unique identifiers for table records, and sequence properties are altered for specific use cases.

\* Create a View & Alter View:

Views are created to simplify data access and present a subset of data from the guests' table

\* Create Stored Procedures:

Stored procedures are implemented for inserting, updating, and deleting data from the hotel table using parameters.

\* Create Functions:

Scalar-valued and table-valued functions are created to perform computations and return specific results.

\* Create Triggers:

Triggers are defined for the payment table to restrict updates and deletions based on specified conditions.

\* Data Insertion:

Data is inserted into the Hotels, rooms, guests, bookings, payments, and feedback tables to populate the HMS database.

\* Data Retrieval:

Various SQL queries are designed to retrieve data from different tables using SELECT, INNER JOIN, SUBQUERIES, EXISTS, CTE, FETCH-OFFSET, ROLLUP, CUBE, ANY, SOME, and ALL clauses.