

Hotel Room Management System

Title Page

Hotel Room Management System

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Department: Computer Engineering

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1. Introduction

This project is a Java-based console application named Hotel Room Management System, developed to manage room-related information in a hotel, such as room number, bed type, occupancy, Aadhaar details, availability, cleanliness status, breakfast inclusion, category, and price.

This software provides basic CRUD (Create, Read, Update, Delete) functionalities for hotel administrators to manage hotel rooms efficiently using a simple command-line interface.

2. Technologies Used

- Java
- Object-Oriented Programming
- Scanner Class
- ArrayList Collection

3. Functionalities Implemented

- Add Room

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- Update Room
- Delete Room
- View Table
- Exit

4. Code Structure Overview

Class Room:

- Stores all room details.
- Provides getter/setter methods.

Class HotelRoomCRUD:

- Contains the main() method.
- Includes methods like addRoom(), updateRoom(), deleteRoom(), findRoomByNo(), and printRoomTable().

5. Sample Output

Hotel Room Management

1. Add Room
2. Update Room
3. Delete Room
4. View Table
5. Exit

Choose an option: 1

...

Room added successfully.

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Room Table:

RoomNo	BedType	Occupancy	Aadhaar	Breakfast	Cleaned	Available	Category	Price
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101	Double	2	123456789012	Yes	Yes	Yes	Deluxe	3500.00
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6. Benefits

- Simple interface for staff
- All room details in one table
- Real-time updates
- Practice for OOP in Java

7. Limitations & Future Scope

Limitations:

- No database
- CLI-based only
- No authentication

Future Enhancements:

- Add database support
- GUI using JavaFX or Swing
- User login roles

8. Team Members

- Preety Jadhav: Java Development, Testing

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- Tavisha: Documentation, UI Design
- Maithili: Logic Design, Code Maintenance

9. Conclusion

This project demonstrates Java programming and hotel room management logic using OOP and Scanner input handling. It is a base for future GUI and database-integrated applications.