

Case Study 22 : Hotel Room Booking Management System

Overview

This case study demonstrates room booking management using Trees for availability tracking.

Requirements

- Room availability tracking
- Efficient search

Suggested OOP Structure

Classes: Room, Booking, HotelTree.

File Handling / Data Storage

Tree-based in-memory storage.

Automation Features

Automatic room assignment.

Data Visualization

Occupancy rate chart.

Code Snippet

Traverse tree to find available room.

Sample Example Output

Room Booked Successfully