

# HOTEL MANAGEMENT

A console-based Hotel Management System built in C++ that handles room reservations, guest checkouts, and occupancy tracking with automated billing.

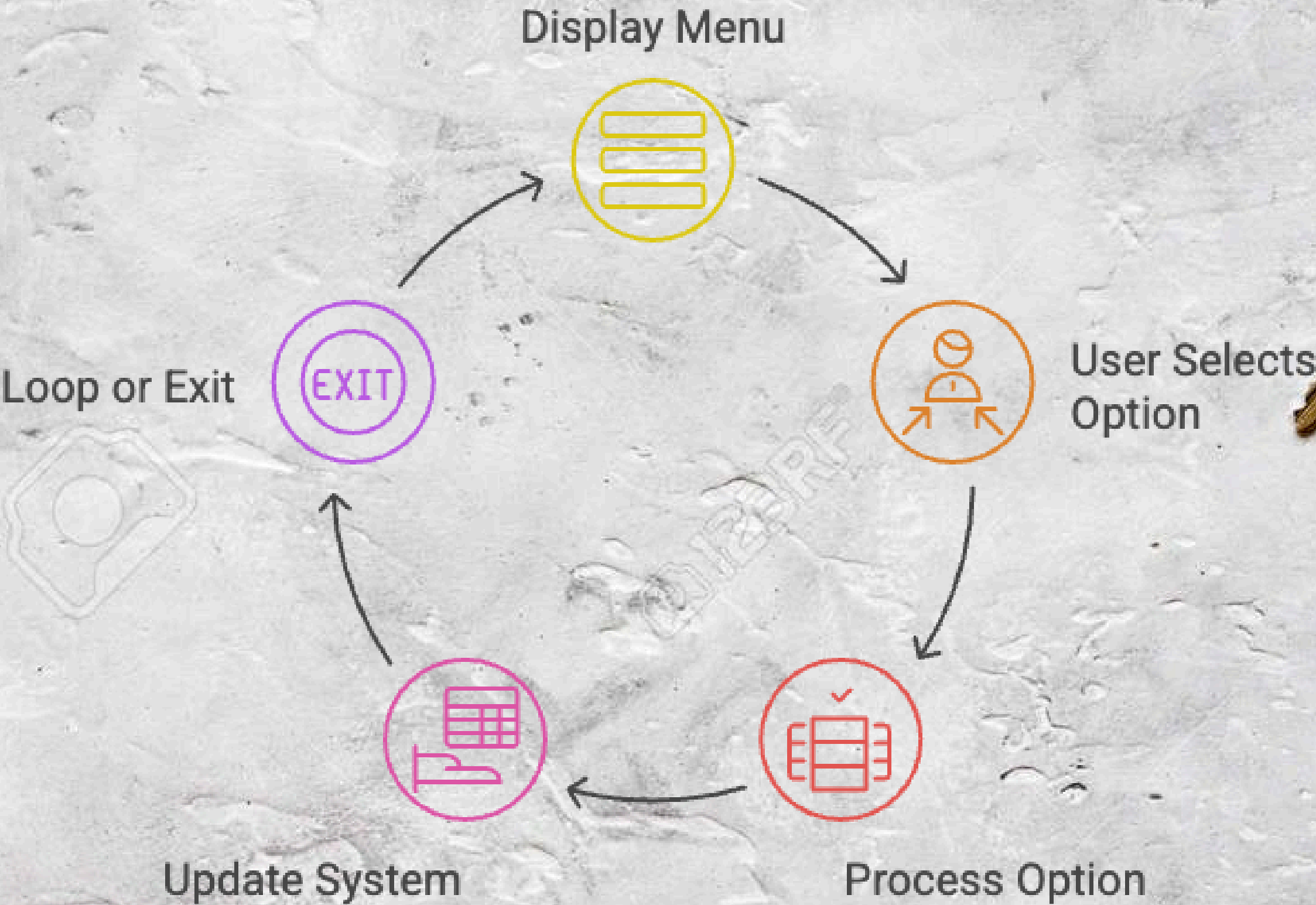
Presented By:;Pranav Nair  
Mahek Yadav  
Pratik swain  
Dhruv Chavda

HOTEL BOOKING FORM

GUEST INFORMATION

LAST NAME:  
COUNTRY:

# Hotel Room Booking System Cycle



# Core Features

## 1. Room Booking System

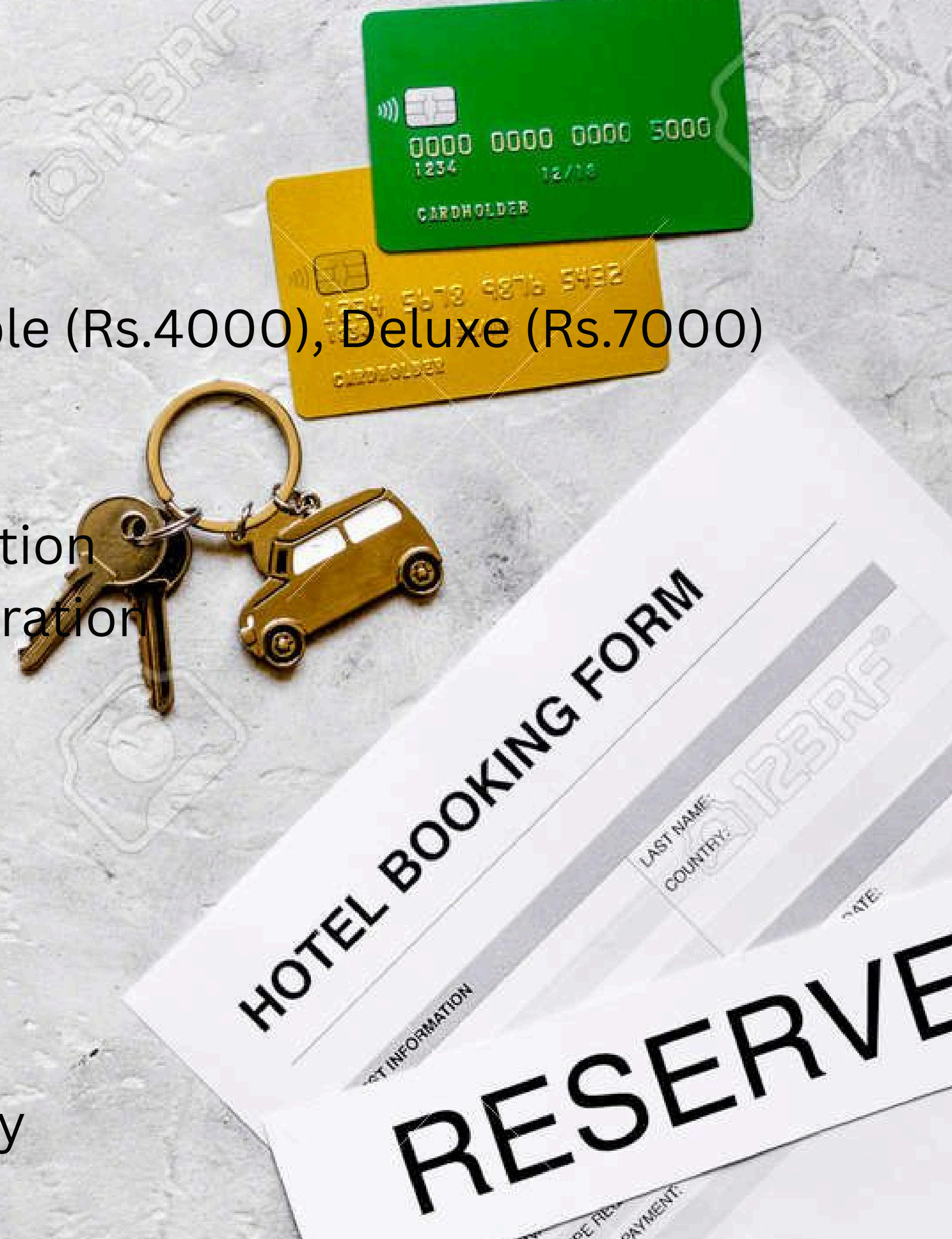
- Three room categories: Single (Rs.2000), Double (Rs.4000), Deluxe (Rs.7000)
- Real-time availability checking
- Multi-room booking support
- Automatic bill generation with 10% tax calculation
- Input validation for room quantity and stay duration

## 2. Guest Checkout

- Selective checkout by room type
- Automatic room availability updates
- Prevents invalid checkout operations

## 3. Occupancy Tracking

- Real-time view of occupied rooms
- Displays number of nights booked per category
- Shows current utilization status





# Technical Highlights

## 1.Object-Oriented Design

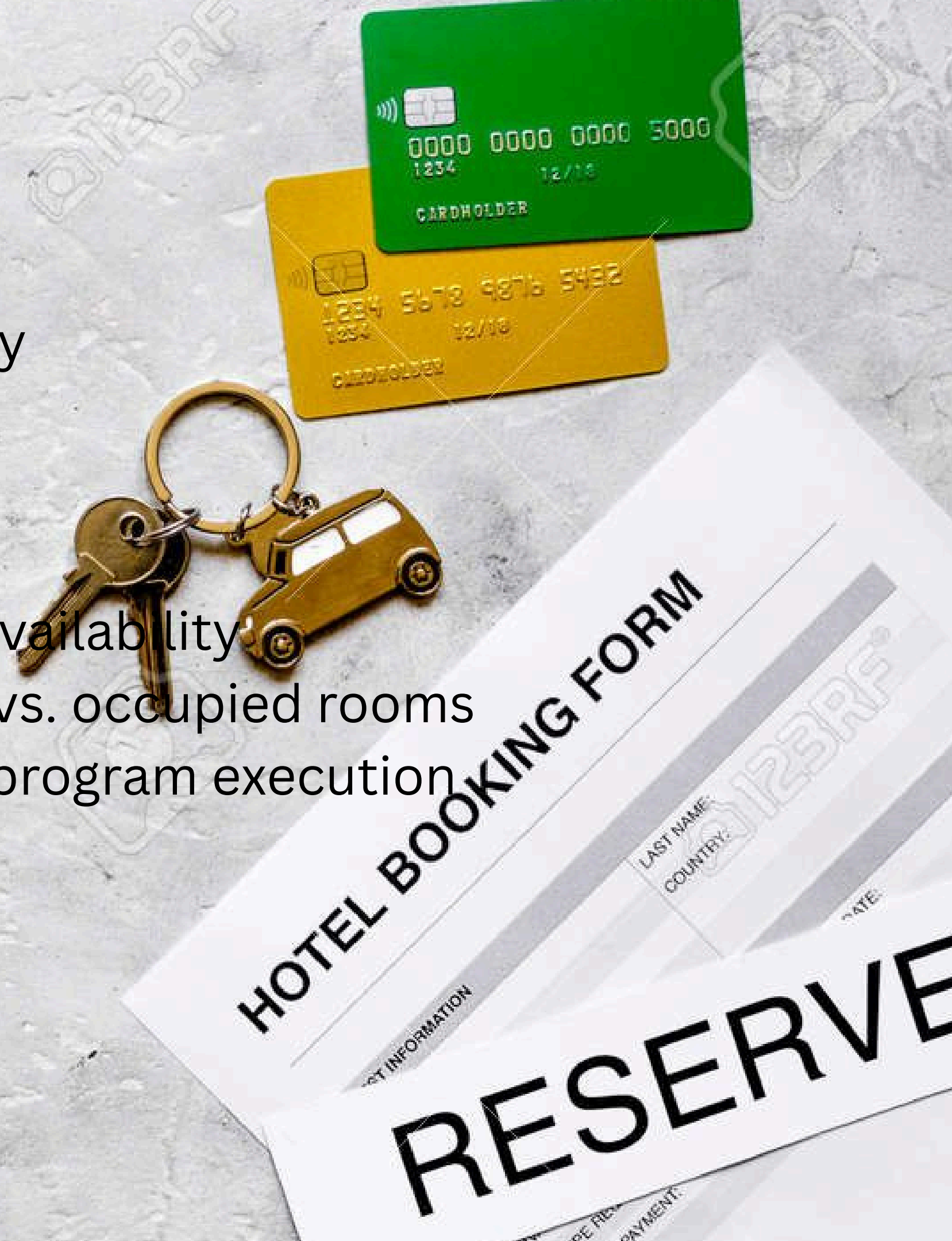
- Single Hotel class encapsulates all functionality
- Private data members ensure data security
- Public methods provide controlled access

## 2.Data Management

- Arrays: Parallel arrays for room types, prices, availability
- State Tracking: Separate tracking for available vs. occupied rooms
- Persistent State: Data maintained throughout program execution

## 3.User Experience

- Menu-driven interface (4 options)
- Clear prompts and feedback messages
- Formatted bill output with professional layout
- Error handling for invalid inputs



## Strengths

- Simple, intuitive interface
- Robust input validation
- Clear separation of concerns
- Professional bill formatting
- Real-time inventory updates



## Potential Enhancements

- Customer name/ID tracking
- Booking history and receipts
- Room reservation dates
- Payment method options
- Database integration for persistence





# THANK YOU.

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