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classmate

Date

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SRS for a Hotel Management System

1. Introduction:

1.1 Purpose of this Document

This SRS defines the functional and non-functional requirements for a Hotel Management System. It serves as a blueprint for the development team, outlining the expected capabilities and behaviour of the system.

1.2 Scope of this Document

The system will manage various aspects of a hotel's operations:

- Guest reservations and check-in/check-out process.
- Room management and assignment.
- Billing and payment system.
- Staff management.
- Reporting and analytics.

1.3 Overview:

The Hotel Management System will be a web-based application accessible to hotel staff. It will provide a user-friendly interface for managing day-to-day operations efficiently and accurately.

2. General description:

This application provides features for management among the ~~host~~ staff, receptionist... and also provides the user for checking the availability of room, pricing,

check-in/check-out. It also provides online reservation and cancellation

3. Functional Requirement:

- Reservation Management:
 - Allow user to reserve, modify or cancel reservation.
 - Validate guest information.
 - Confirmation email and payment receipt generation.
- Room management.
 - Track room status
 - Assign room to guest based on availability.
- Billing and payment.
 - Calculate guest bills based on room rates and additional charges.
 - Generate receipt and invoice.
- ~~Staff~~ Staff management
 - Create staff profiles with role
 - Schedule shifts and assign job.

4. Interface requirement:

The logging system must have interactive pictures of each room and it must show a grid of the hotel floor for customers to choose ~~from~~ form.

5 Performance Requirement:

The response time shouldn't exceed 1.5 secs and should run on 16gb ram and 512 gb terminal - The error rate shouldn't exceed 12.

6 Design constraints:

The algorithm should have $O(n!)$ time complexity the system should use only J2EE.

7 Non functional Requirement:

The system must have AES encryption standard and must be architectural neutral. The system must be able to handle 1000 users at a time and should be Scalable.

8 Preliminary Schedule and Budget.

The project should be able to be completed by or within 7 months and a budget of 900K is to be allocated.

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Hotel Management System:

Person	Customer
name: string	adhaar Num: string
age: int	membership status: string
phone: string int	reservation history: list
email: string	make reservation()
getDetails()	cancel reservation()
updateContactInfo()	getLoyaltyPoint()

Residence

Hotel Management System
guest_info: string
guest_id: string
make_reservation()
cancel_reservation()
get_availability()

reserves

Billing
billID: string
totalAmount: float
taxAmount: float
dateOfBill: date
reservationDetails: Person
generateInvoice()
applyDiscount()

converts to

Hotel
hotelID: string
name: string
location: string
rating: float
rooms: list<Room>
employees: list<Employee>
addRoom()
hireEmployee()
removeRoom()

Room

roomNumber: string
floor: int
price: float
status: string
amenities: list<string>
bookRoom()
releaseRoom()
cleanRoom()

Employee

employeeID: string
role: string
salary: float
shiftHours: string
performDuties()
requestLeave()
attendTraining()

Reservation

reservation_ID: string
checkinDate: Date
checkoutDate: Date
roomDetails: Room
customerDetails: Customer
modifyReservation()
calculateTotalCost()

enumeration

status
confirmed
cancelled
checked-in
checked-out
Pending

