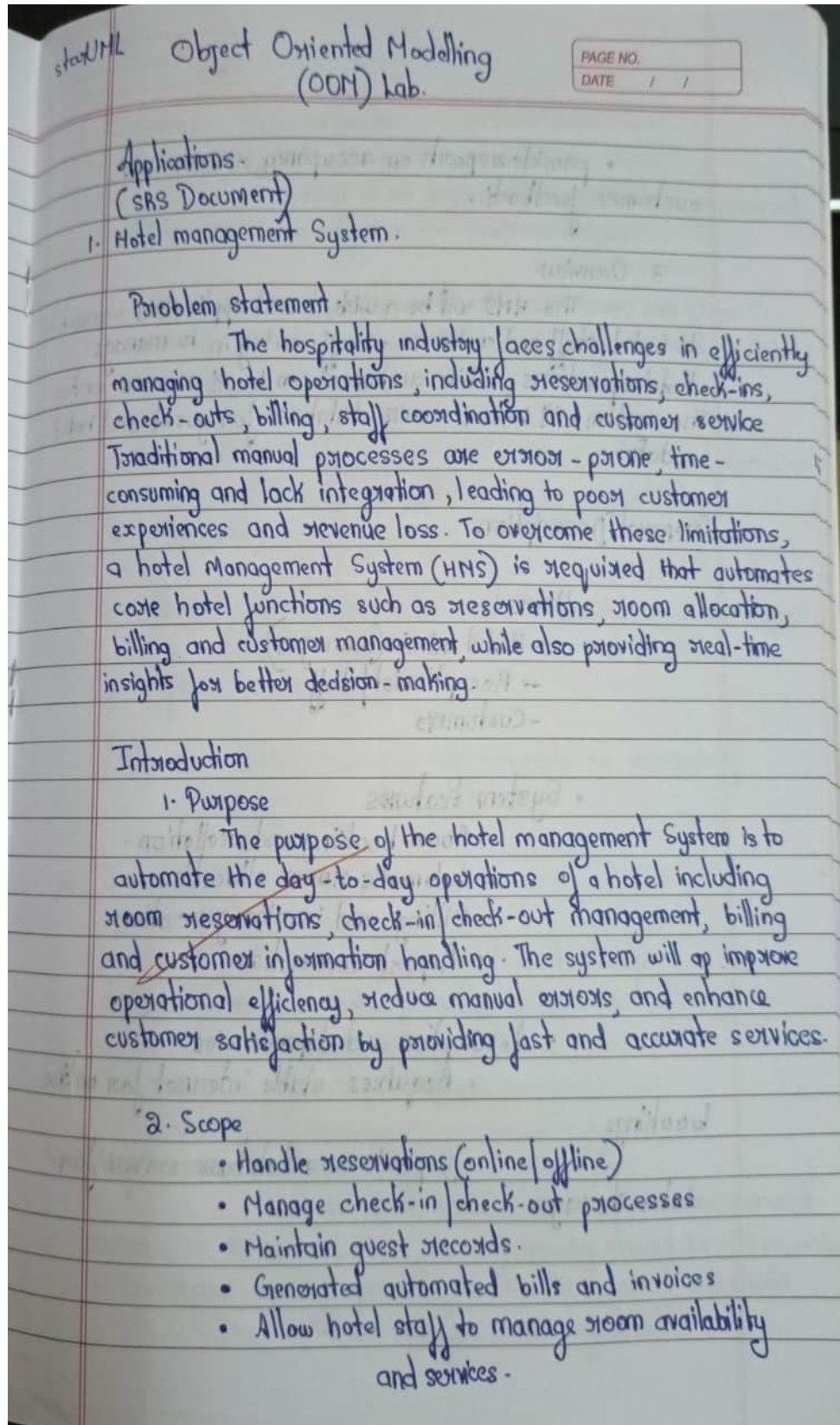


# OOM LAB

## SRS Document

### *Hotel Management System*



- provide reports on occupancy, revenue and customer feedback.

### 3. Overview.

The HMS will be a web-based application accessible to hotel staff and customers. Staff can log in to manage hotel operations, while customers can book rooms online. The system will have a secure database for guest and hotel data.

### General Description

#### • Users

- Hotel admin (manager)
- Receptionist / staff
- Customers

#### • System Features

- Room booking and cancellation
- Automatic room allocation
- Billing and invoice generation
- Report Generation

#### • Assumption and dependencies

- Requires stable internet for online bookings
- Depends on a database server for data storage



### 3. Functional Requirements

- User Authentication
  - staff must log in with username & password
  - Customers can register or book as guests.
- Reservation Management - customers can view available rooms and book them and staff can add, update or cancel bookings.
- check-in/check-out - staff can mark check-in and check-out and the system updates room availability automatically
- Billing System - Generates Invoices based on room type services and stay duration and provide print/email options.
- Reports - Admin can generate reports on occupancy revenue and customer details.

### 4. Interface Requirements

- User-Interface - web based interfaces with dashboards and mobile friendly responsive design.
- Hardware Interfaces
- Software Interfaces

### 5. Performance Requirements

- System must handle atleast 500 concurrent users.
- Response time for any query should be  $< 3$  seconds.
- Database must support upto 100,000 guest records without performance degradation

## 6. Design Constraints

System must be developed using java/python with mySQL. Must comply with data security standards. Also only authorized staff can access customer data.

## 7. Non-functional Attributes

- Reliability
- Security
- Maintainability
- Usability
- Portability

## 8. Pre-liminary Schedule and Budget

Schedule (Estimated for Medium Hotel - 6 Months)

- Requirement Gathering - 2 weeks
- System Design - 3 weeks
- Development - 12 weeks
- Testing - 4 weeks
- Deployment - 2 weeks
- Maintenance & Support - Ongoing.

### Budget

- Software Development \$ 30,000
- Hardware & Infrastructure - \$10,000
- Testing & deployment : \$5000
- Maintenance (Yearly) : \$ 8000

Total Estimated cost : \$ 53,000