) Hotel Management System Problem Statement Margara Manual hotel operations lead to inefficiencies in reservations, billing, and customer service, often resulting in errors and austoner dissatisfaction. There is a need for an automated system that centralizes booking, staff, allocation, and financial management that ensures accuracy, scalability, and real-time data access. The system must provide a secure, user-friendly platform for both administrators and guests. Software Requirement specification 1. Introduction 1.1. Purpose of the Document Endefine the requirements of an automated Hotel Management System that streamlines reservations, billing staff allocation, and customer service 1.2. Scope of the Document The system will automate boding, room allocation, billing, and reporting while ensuring accuracy, scalability, and user-friendly interaction.

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1.3. Overview

Hanual hotel operations lead to inefficiencies in reservations, billing, and customer services often resulting in errors and customer dissatisfaction. There is a need for an automated system that centralized booking, staff allocation, and financial management while ensuring accuracy, scalability, and real-the sesses time data access. The system must provide a secure, user-friendly platform for both administrators and guests.

2. General Description

The system will support multi-user access, integrate with online booking platforms, and maintain a secure database of customer and transaction records.

3. Junctional Requirements

Handle customer check-in check-out

Generate bills and maintain payment records

Allocate staff and services

web and mobile interfaces for customers

Admin dash board for hotel staff

Database integration with secure APIs

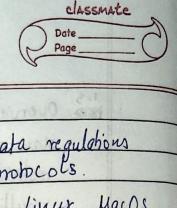
5. Performance Requirements

8 hould process bookings in under 5 seconds

8 hould handle atleast 500 concurrent users at a

time

8 hould ensure 997. uptime



Design constraints Hust comply with hotel industry data regulations Use secure clogin lauthentication protocols. Must be compatible with Windows, Linux, MacOs a Android and EDS systems Must use standard DBMs and cloud support Must secure transactions with encryption. 7. Non-functional Attributes should be scalable for hotel chains Must be maintainable with modular design Must be be portable accross platforms. 8. Preliminary Schedule and Budget

The system is restingated to be developed in within
6 months including perion, implementation and

testing.

The projected budget is around \$20000 for development, \$9000 for testing, \$ 5000 for deployment and training and around \$8000 for maintenance per year. Total cost: \$ 50000 Design and Analysis: \$ 1 mouth Core modulus: 2 months Reports and House beeping: month Enlegration Testing: 1 month Deployment / Training: 1 month