1. Holel Management System 21/8/25 Problem Statement; In the hospitality industry, efficient and accurate management of hotel operations is crucial por ensuring customer satisfaction, onanimum resource utilization and to compete with other hotels. weently, many hotels struggle with managing reservations, customer orders, staff allotment, room ascignments etc. These inefficiencies lead to many problems that make the customer unhappy. There is a need for a simple and centralized Hotel Management dystern that can automate and manage noted operations like booking, customer information, room allottment, staff allottment etc. The system should suppost both admin side and customer side. The proposed HMS must ensure data consistency. reduce human error, enhance customer experience and enable efficient management of hotel resources.

quu al Description The HMS is a standalone web-based application that will replace manual noted operations. that improve data consistency, operational efficiency, resource handling and thereby improving austonee satisfaction The HMS shall provide the following. . Quest registration and online bookings . Room addo inventory management . Check-in and check out processes . Housekeeping task assignents . Integrated billing and invoice : Role-based uses access · Reposting and analytics 3. Functional Requillments FRI: Allow customers to register, log-in and FR2: Allow guests to search for rooms and make bookings FR3: Poovide a secure payment gateway FRU: Enable Motel staff to track bookings, na allot sooms, create update or cancel bookings ers. Automale chedin and theck out processes PR6: Generale reports and revenue and quest history.

4. Interface Requirements Server to host the application Integration with payment terming, Emeil Isms service providers Mobile friendly Ul components Web pages for booking, login, dashboord admin panel. 6. Performance Requirements . The HMS shall ensure fast and respon UT's with page load time not lanceding System should be able to handle multis users simultaneously provide secure payment gateway Enough doesa shorage to store atleast fine years seconds of bookings and customer Provide real time updates on room booking and availability. 6. Design constraints . Att communication meet be secule using should work accross popular browsens 4 / HTTPS. Chrome ; Firefor etc. . System must be mobile friendry Must John data privary laws like aprix to protect quest information

4. Non- function as airnbutes , Reliability: 99.9% uption, data recovery mechanism in place. , usability: Heratro, Intuitive UE , security: Role based acess combol, ensypted passurods . Maintainabilling: Modulae audebase with documented APIS scalability: Ability to support multiple motel thairs in Juline g. Pretininary Schedule and Budget. wick 1-2: Requirement analysis and. well 2-4: Eystem Design - Architectural ALI me's 5-7: Implementation - loding and integration week 8-9: Testing war 10-11: Deployment Budget Requirement Analysis - \$250000 £ 8,00,000 System Design 2 2,500,000 Josephenkation - 77,00,000 2 3,00,000 Testing Deployment 25,50,000 rotal