* SRS for 410 rel management system. 1. Introduction 1.1 Purpose: purpose is to define the sequirements for the HMs, which automates various hotel operations like guest reservations, billing and 100m management

1.2 Scope: The HMs will handle estential hotel operation improving service efficiency and guest satisfication. It includes room booking check-in/check-out processes, and payment handling. It also covers cyskin require-- ments, design ions traints, and a preciminary development

timeline and budget.

1.3 Overview: HMs is a web-based application that helps monage hotel operations, including soom Gookengs, quest services, and billing. The cyckm will automate daily tasks, reducing manual work and enhancing the overall efficiency of the hotel's workflow.

2. General description:

- 2.1 Use character is ties:
 - Guests: can book loons & view invoices.
 - · Hotel staff I manages bookings, guest cheek-to or chick-outs, 2 invoking.
 - Managers: oversees operations, generates reports, and manages staff.

2.2 Features:

- room Building; search & book rooms based on availibility.
- Billios Generale invocies & process payments
- Reporting : provide occupancy & financial reports toe management

2.3 Benefits:

- reduces manual processes & human ever.
- provides goal-time updates on room availability. - steem lines billing & invocining.
- 3. Functional Requirements.
- Eyests registration: Users must be able to register ? manage their accounts.
 - Room Booking; The system must allow users to Luor worms based on availibility.
- Billing: The system must generate accurate invoices for evor chaires & recrites.
- check-in/check-out; Hotel staff must manage guest check-info and check-outs.

a Intuface Requirements. - Wer intuface: The system should be accessible on

both disktop and mobile platforms

- syx-tern Indulace: The mus syx tern must integrate with payment gateways & I had - party Looking platfum

5. Performance Regularments:

- Response Time: The system must respond within 3 records for roum searches & bookings

- Scalability: The system should handle up to 500

concernent users

- Elle Rate: The eller date in bookins or even allocation should be Us than 0.5%.

6. besign constraints:

- Hardware: The system will be cloud- hosted with a minimum of 49B RAM & 1009B storage.
 - software: The for backend we may use node is. with react to the to frontend and MYSOL for the database.
 - 7. Non-finctional attributes!
 - Security: Data must be encupted and comply for privacy laws.

- Partasility! The system should work across major browers ? mobile services.

- Reliability: The system must maintain a 99.9%, uptime

E. Preliminary Budget & Schedule:

S.T Schedule:

- Development: It may take about sweeks to develop the application.

- Testins ? Deployment: It may take 3 weeks ter festing & making it leady to use application

8.2 Budget

The state of the s - Development : cost : \$20,000

Infrastructure: \$3000,/year