1. Hotel management System

<u>Problem statement</u> - One of the primary challenges that the hotel managers face is the efficient management of their resources and the seamless execution of their services. the tradition methods of managing a hotel are not effective in meeting the evolving needs of customer. there is a need for an automated system.

SRS -

① user requirement:

1. Customers - ability to view & book rooms online
   * ability to view room availability and rates
   * easy access to amenities and services

2. Receptionists - ability to manage room reservations and bookings, ability to view customer details & preferences

3. Housekeeping staff - access to rooms stats & housekeeping tasks, ability to update room status & clean rooms.

4. Administrators - ability to manage user accounts & access levels, view and manage hotel operations & finances.

② software requirement:

1. Operating System - system should be compatible
2. Web server - system should be accessible through a web server
3. Programming language
4. Database management systems
5. user interface
6. security
7. Reporting and analytics.

③ Functional Requirements:
1. user Registration - system should allow users to register and create their profile
2. Reservation management - allow staff to manage modifying, canceling or confirming
9. Room booking - allow to book rooms online & view the availability
4. Billing & Payment - enable to generate bills and invoices for customers.
5. Reporting - should provide various reports, including occupancy reports etc.

④ Non-Functional Requirements:
1. Performance - must be able to handle a large no. of users & transactions simultaneously.
2. Security - system should be highly secure with robust authentication and authorization mechanism
3. usability - should be user friendly with simple & intuitive user interface
4. Scalability - should allow for future expansion & addition features
5. Reliability - should be high level of availability & minimal downtime
6. Compatibility - should be compatable with various devices and browsers.
7. maintainability - should be easy to maintain with a modular architecture and clean code.

⑤ Domain Requirements:
1. Room management - should be able to manage room types, availability, rates and bookings.
2. Customer management - should be able to manage customer profiles.
3. Inventory management - should be able to manage inventory including supplies and equipment

4. Staff management - manage staff profiles, roles, payroll and schedules.

5. Reporting and analytics.

6. marketing and promotion - should be able to handle marketing and promotion activities

7. Security and privacy - able to maintain the security & privacy of customer data & sensitive info.