Classes

1) Hotel Management

1.1 Problem Statement: Design

1.2 Scope: To manage different requirements of customers

1.3 Problem Statement: It is difficult to manage offline booking

2. Functional Requirements

2.1) Room Service - System allows user to choose type of service

2.2) Booking Room - Users can book rooms through website

2.3. Party Hall Booking - Users can reserve party halls.

2.4. Restuarant Access - Food can be ordered from restaurant

2.5) Vehicle parking - Parking slots are allocated to users

2.6) Gym, Swimming pool, Game Room → System allows booking

2.7) Inventory Management - Inventory stock is updated & checked for availability

3. General Description:

Hotel Management is designed to handle the operations of Room booking, Party Hall and other amenities, restuarant service, vehicle parking etc.

System increases efficiency & reduces human error.

4. Interface Requirements

4.1 User Interface: System should have a graphical interface for staff to view for staff, customers & manager

4.2 API Integration: Integrate external API for database of inventory and room & amenities bookings.

5. Non functional Requirements Performance

5.1 System should handle upto 1000 users at same time

5.2 Reservation & verification shouldn't take more than 3 se

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6) Design Constraints
   6.1 System should be compatible with existing technology
   6.2 It should follow security protocols

7.) Non functional Requirements
   7.1 Security:- System should keep customer & order detail private.
   7.2 Reliability:- Ensure:- 99% uptime to avoid disruptions
   7.3 Data Integrity:- Ensures room, party hall availability & updations are regular.

8.) Preliminary Schedule & Budget
   Project is expected to take 5 months with a budget of $2500