1. Hotel Management System

Problem Statement

A hotel management system aims to develop software that effectively manages various aspects of a hotel's operations such as room reservations, checkins, checkouts, room service, housekeeping, billing and reporting to improve guest experiences and streamline hotel operations.

SRS

1. Introduction

1.1. To clearly document and define functional and non-functional requirements by ~~the~~ ensuring effective hotel management. serves as a roadmap for development that can improve the hotel operations which will then enhance the guest experience.

1.2. To run and ensure that hotels function as smooth as possible. Development time depends on how complex the management system is and the size of the system.

1.3. Hotel management system SRS contains general description, functional requirements, non functional requirements, interface and performance requirements, design constraints.

2. General description

Help hotel employees efficiently manage hotel operations and provide customer support. Features are:- room reservations, checking in or out, Billing or Accounting, managing of the inventory. Benefits are increasing the efficiency and accuracy, better reviews due to improved guest experience. User community would include customers, hotel staff, guests, IT professionals for implementing and maintaining the system.

3. Functional requirements

1. Making sure that all the rooms can be reserved e
   Making sure that management is also available.
2. Checking in and out for guests.
3. Housekeeping and room management / maintenance.
4. Security
5. Integrating with other hotel systems and services.

4. Interface requirements

1. Making it more easily accessible by integrating with o
   booking platforms to ensure that customers can acces
   pricing information and room information.
2. More accessible and integrate with payment gatewa
   to make sure that the payments process is efficient
   and secure.
3. Use/combine housekeeping management software to m
   an easily accessible cleaning and inventory schedu

5. Performance requirement

1. Required time: Users requests have to be accomplished
   in a timely manner.
2. Amount of memory: depends on the size of the hotel,
   data amounts. Exact memory requirements is determined
   based on needs and requirements.
3. Scalability: Should be able to handle more traffic during
   peak periods without slowing down or any errors.
4. Security: Should be able to protect important
   information.

6. Design constraints

1. Hardware limitation: System has to neatly integrate within the already existing hotel infrastructure.
2. Software limitation: constraints of the amount of data that can be processed or stored, the speed of the data.
3. Time constraints: cannot take multiple years to develop and implement.
4. Security: must adhere to security regulations and protect guests/hotel data.

7. Non-functional attributes

1. Portability: Has to work on all different platforms like tablets, mobile phones, computers.
2. Scalability capacity: needs to handle growth and increased demand, ensuring that growth is not limited.
3. Compatibility: has to be compatible with already existing application that the hotel already uses.
4. Security: ensure that data does not get leaked.

8. Preliminary schedule and budget.

- Planning: 15 days
- Development phase: 6 months, 15 days
- Testing: 2 months
- Deployment: 3 weeks
- Hardware: $10,000 – $150,000
- Training: $45.000 – $49,000
- Personel: $600,000.