Hostel Management System

Problem Statement

To design an online Hostel Management System which will provide an interface to help the students with the process of being allocated rooms, a hostel being assigned to a warden and also to maintain all the related information and details regarding the hostel. This system also aims to reduce error and data redundancy.

Software Requirement Specification Purpose

The purpose of this document is to describe the requirements to develop a Hostel Management System. This is a description of the features required to address the process of hostel management and add the necessary framework to explain the functionality. It is also a description of requirements and other factors needed to provide a complete and convenient system.

Scope

This system will be a web-based system that will cater to the needs of the hostel management process. This system promises to make the process as convenient as possible. The benefit of this system is that it looks forward to providing better efficiency than the existing systems.

Requirements

1. Functional Requirements

      a) It should contain an interface for hostel details.
      b) It should contain an interface for student details.
      c) It should contain an interface for warden and other staff details.
      d) The student must be able to choose the facilities needed.

2. Non-functional Requirements

      a) The database storing the details must be backed-up and secure.
      b) The system should be easy to handle.
      c) The system should be able to handle multiple users.

3. User Requirements

      a) The hostel details must be displayed.

b) The various facilities provided must be displayed.

Class Diagram

Figure 1 : Class Model

Hostel Class : T his class models a hostel and contains hostel details.

College Class : T his class models a college.

Block Class : This class models a particular hostel block.

Room Class : This class models a room in a hostel block.

Student Class : This class models a student.

Lives in Class : A n association class between Room and Student.

Staff Class : T his is a general class which contains details common to all staff. *Warden Class :* T his is inherited from Staff and models a hostel warden.

Mess Class : T his class models the hostel mess.