**PROJECT REPORT**

**FOR**

**HOSTEL MANAGEMENT**

**1. Introduction**

1.1 PURPOSE

The purpose of this document is to build a Hostel Management Site to help students book hostel rooms as per their own convenience, file complaints and write reviews about the room.

1.2 INTENDED AUDIENCE AND READING SUGGESTIONS

The project is useful for both students and hostel committee members.

1.3 PROJECT SCOPE

The purpose of this Hostel Management System is to ease hostel management and to create a convenient and easy-to-use application for students . The system is based on a relational database with its room allotment , review and complaint features.

The software will be able to perform the following operations:

1. Allot Rooms: Students will be able to choose hostel rooms according to their convenience and pay for the same.
2. File a complaint: Students will be able to file a complaint regarding any of the facilities and if the complaint could not be resolved within the specified time, it would be sent to the higher authorities.
3. Review the rooms- Seniors who have already stayed in the room will get an option to review a room in which they can upload the room pictures and write about the problems(if they had faced any).
4. Mess : Students will be able to pay the hostel fees, see their past payments and write reviews about the food and management.

SYSTEM TESTING

System testing is the stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operation commences. Testing is the process of executing the program with the intent of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. The ultimate aim is quality assurance. Tests are carried out and the results are compared with the expected document. In the case of erroneous results, debugging is done. Using detailed testing strategies, a test plan is carried out on each module. The various tests performed in this project are unit testing, integration testing and user acceptance testing.

Unit Testing

The software units in a system are modules and routines that are assembled and integrated to perform a specific function. Unit testing focuses first on modules, independently of one another, to locate errors. This enables, to detect errors in coding and logic that are contained within each module. Here different units include login/register, room allotment, complaints and room review. Each one of these is tested to work properly independently.

Integration Testing

Data can be lost across any interface, one module can have an adverse effect on another, sub functions when combined, may not produce the desired major functions. Integration testing is a systematic testing to discover errors associated within the interface. The objective is to take unit tested modules and build a program structure. All the modules are combined and tested as a whole. In this project, room allotment and complaints can be filed only after the student has logged in . The room review can only be written once the room is allotted to a student. This testing provides the assurance that the application is well integrated functional unit with smooth transition of data.

User Acceptance Testing

User acceptance of a system is the key factor for the success of any system. The system under consideration is tested for user acceptance by constantly keeping in touch with the system users at time of developing and making changes whenever required.