

**Sri Lanka Institute of Advanced Technological
Education
(SLIATE)**

Project Proposal
Individual project
(Network track)

Title
Hostel Management System

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Register number
BAT/IT/2018/F/0022

Higher National Diploma in Information Technology

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1. Introduction

This project proposal is submitted “to meet the software development requirements of individual project module conducted by the” Sri Lanka Institute of Advanced Technological Education (SLIATE), Batticaloa, 2020.

The project named “Hostel Management System”.

This system is developed to computerized day to day activity of a Hostel. In our current era of automated system with it being either software or Hardware, it's not advisable to be using manual system. Hostels without the Management system are usually done manually Registration forms verifications to other data saving processes are done manually and most at times, they are written on paper. Thus a lot of repetitions can be avoided with an automated system. The drawbacks of existing system lead to the design of a computerized system that will help reduce a lot of manual inputs.

This system is design in favor of the hostel management system which helps them to save the records of the students about their rooms and other things.it helps them from the manual work .This particular system deal with the problems on managing a hostel and avoid the problems which occur when carried manually identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.. We can improve the efficiency of the system, thus overcome the drawbacks of the existing system.

2. Background and Motivation

We have selected to develop a Hostel Management System for University Hostel in Srilanka. Currently they are using a manual system to handle all the data about the hostel students and Rooms. They feel is not effective and efficient in manual system.

As a student I can well under the problem which are we face daily in our life. Actually I have got many things in my mind about final project system. And finally I have planned to do a system for applying Hostel management system, maintain student details, room details, employees details and more facilities without any problem for hostel Management.

3. Problem in Brief

There are a lot of drawbacks in keeping and maintaining a Hostel especially with a manual system. Since most Hostels are being run by only one hostel manager the number of students in a room are sometimes not known by the officer. He has to go room by room to ensure that a room is occupied or not. Sometimes people may be owing in the hostel and they are saved on papers of huge notebooks and sometimes receipts. If the books should go missing or stolen one would never be able to know if a student owing or not. Room allocation also becomes a problem as the officer might not know which rooms are available or not. And some Hostels have a lot of rooms or have more storeys and it would be very tedious to go through all storeys in search of a free room for an applicant. Also the officer might not know the number of students in a room or know if a room is full or not.

The following are among of the problems that lead to purpose creation and development of Hostel management system:

- **Access Time**

The manual system takes long time process compared with computerized System. Example hostel owner searches the available room for new student from the Hostel it can take long time.

- **Inefficient Admin, students, communication.**
- **Miscommunication caused by handwriting.**

4. Aims and Objectives

4.1 Aims

Aim of My project is to develop a Hostel Management system identify the problems and reduce the workloads, mistake and process time made by manual Hostel Management process with the use of IT Solutions.

4.2 Objectives

To overall objective of this project is to establish a System for Hostel to improve the performance and efficiency of hostel management processes. It is the user friendly application for users which reduce the burden and helps to manage the hostel. Currently, many Hostels use a paper based system. There are some specific objectives should be implemented.

- ❖ To easy handle.
- ❖ To Easy data updating.
- ❖ To make it new student registration easily.
- ❖ To minimize human error.
- ❖ To update student details about rooms.
- ❖ To find available free rooms in a hostel.
- ❖ To provide rooms details
- ❖ to provide Employees details

5. Proposed Solution

The Proposed Solution of the manual Hostel management is to develop a computerized Hostel management system. Before developing the proposed system, there is need to identify,

- a) The planning of the proposed system
- b) The design of the system.
- c) The main user and their activities

5.1 Planning

The objective and goals of the system were defined clearly include the project scope. In this case, the objectives and goals of the system are to improve the management process in hostel and at the same way to improve process of recording data and data retrieval.

5.2 Design

To develop this hostel management system, PHP is the main programming language and it will be used to write application Besides, SQL is selected as the database storage.

PHP – PHP is a powerful server-side scripting language designed for creating dynamic and interactive websites. PHP is easy to understand and learn particularly for those who have a background in HTML or JavaScript.

The proposed system will be designed using HTML , JAVA as the front end and My SQL as the back end (the database used to store the rooms details, Hostel students details, Employees details). The size (in terms of memory) of the proposed system will be small.

5.3 The main user and their activities

The main users of the proposed system are the administrator, Head of hostel.their activities

- Include students details.
- include room details.
- manage and control the hostel.
- update room details

6. Resource Requirements

The proposed system will be develop using php.

6.1. Hardware

- **PC or Laptop with Minimum Core i5 Processor.**
- **Minimum 1 TB space in Hard Disk**
- **Minimum 4GB Ram**

6.2. Software

- **Operation System : Windows 10**
- **Language : php**
- **Server : Apache Server**
- **DBMS : MySQL**

7. Reference

1. Reference

Internet

- a. php with mysql lynda tutorial.
- b. collective Knowledge Acadamy you tube channel css
- c. www.hostel.management.com