

**Tribhuvan University**

**Faculties of Humanities and Social Sciences**

**HOSTEL MANAGEMENT SYSTEM**

**A PROJECT REPORT**

**Submitted to**

**Department of Computer Application**

**Ratna Rajya Laxmi Campus**

***In partial fulfillment of the requirements for Bachelors in Computer Applications***

**Submitted by**

**Sagar Adhikari (6-2-40-50-2020)**

Under the Supervision of

**Bhupendra Ram Luhar**



**Tribhuvan University**

**Faculty of Humanities and Social Sciences**

**Ratna Rajya Laxmi Campus**

**SUPERVISOR’S RECOMMENDATION**

I hereby recommend that this project prepared under my supervision by “Sagar Adhikari (6-2-40-50-2020)” entitled “**HOSTEL MANAGEMENT SYSTEM”** is partial fulfillment of the requirement for the degree of Bachelor of Computer Application is recommended for the final evaluation.

**-------------------------------------**

**SIGNATURE**

Bhupendra Ram Luhar

**SUPERVISOR**



**Tribhuvan University**

**Faculty of Humanities and Social Sciences**

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#### LETTER OF APPROVAL

This is to certify that this project prepared by “Sagar Adhikari” entitled **“HOSTEL MANAGEMENT SYSTEM”** in partial fulfillment of the requirement for the degree of Bachelor in Computer Application has been evaluated. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

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| --- | --- |
| **Signature of Supervisor**    ---------------------------------    Bhupendra Ram Luhar  Ratna Rajya Laxmi Campus | **Signature of HOD**    ----------------------------------------  Bhupendra Ram Luhar  Coordinator, Department of Bachelor in  Computer Application  Ratna Rajya Laxmi Campus |
| **Signature of Internal Examiner**    ---------------------------------------  Ratna Rajya Laxmi Campus | **Signature of External Examiner**    -------------------------------------- |

# **ABSTRACT**

Hostel Management by manual way is tedious process, since it involves work load and time

consumption. This system is designed to overcome the problem of the hostel management such as not knowing the status of rooms, number of free rooms, etc. The system is designed with the objectives of creating and managing such a system that leads to an easy way for getting enrolled in a hostel.

***Keywords: tedious, database, project, system, systematically***

# **ACKNOWLDGEMENT**

I would like to express my deep gratitude to our supervisor Bhupendra Ram Luhar for helping us throughout this project and for this guidance, encouragement and valuable suggestions.

I am also deeply indebted to my coordinator Bhupendra Ram Luhar for constantly giving us information related to the project and for guiding us through the documentation process of this project. This project also provides us good opportunity to acquire how to work with a team and to develop research skills.

I would also like to thank our parents and friends who helped us a lot in finalizing this project within the limited time frame.

Last but not the least, I am also eternally thankful to my friends who helped me by giving valuable insights and for always supporting and encouraging me

Sagar Adhikari (6-2-40-50-2020)

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# **LIST OF ABBREVIATION**

CSS: Cascading Style Sheet

DFD: Data Flow Diagram

ER Diagram: Entity Relationship Diagram

HMS: Hostel Management System

HTML: Hypertext Markup Language

MySQL: Microsoft Server Structured Query Language

SN: Serial Number

SQL: Structured Query Language

UI: User Interface

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# **CHAPTER 1: INTRODUCTION**

## **1.1 Introduction**

The advancement of technology has evolved almost all sectors, including the hostel. The old technique of performing tasks of hostel manually, has evolved to the online system which has led to development of Hostel Management System (HMS). Hostel Management System is developed with the objective of automating tasks of hostel such as registration form, assigning rooms, updating user's details and so on. This particular project also solves the problem with the data in hostel by reducing redundant data of users, manually updating users' data in registers. 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.

This system offers a centralized platform where users can explore, compare, and book hostels among multiple options available, providing detailed information on hostel facilities, room types, pricing, availability, and user reviews. Key features include multi-hostel search and comparison, real-time availability and booking, user reviews and ratings. Users can search for hostels based on various criteria, compare options side-by-side. The real-time availability feature allows for instant booking, reducing the hassle of overbooking.

## **1.2 Problem Statement**

Various Hostel Management Systems are available, but some flaws make them. Poor room allocation often leads to suboptimal room assignments, causing dissatisfaction among users and underutilization of available space. The current hostel management system lacks an efficient room booking feature, leading to frequent issues with overbooking and confusion regarding room availability. The current challenge is the lack of a user-friendly system that enables users to easily compare prices among different hostels, leading to inconvenience.

## **1.3 Objectives**

The Hostel Management System is developed with the aim of completing following objectives:

* To implement a system that allows users to book rooms and provides real-time information about
* To develop a system with a good UI that helps in comparing prices among different hostels.

## **1.4 Scope and Limitation**

### **1.4.1 Scope**

The scope of this project includes management and administration of a hostel facility which will make keep track of Users’ record and both Admin and Users can access their information whenever needed. Users can search among various hostels and can book the hostel rooms nearest to their location.

### **1.4.2 Limitation**

Some limitations of this project are:

* Cant pay fee online.
* Bugs

## **1.5 Report Organization**

**Chapter 1** gives us the background information on the project and it also tells us about the objective and scope and limitation of the project.

**Chapter 2** provides us with the background information about our topic and provides us with already known information and theories.

**Chapter 3** analyse the system by performing the requirement and feasibility analysis. This chapter also provides us with all the system designs of the project.

**Chapter 4** captures the implementation of the proposed design and the tools used while doing so. It also provides the information about the unit testing and system testing.

**Chapter 5** provides us with conclusion, outcome and further recommendation related to the project.