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ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE,VITA

(NAAC Accredited Institute)

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Hon.Adv.Sadashivrao H Patil   **Hon.Adv.Vaibhav S Patil**   **Dr.P.S.Patil**

Ex.MLA. Founder   President   Principal

ŚAcademic Year: 2022-23	**Project Synopsis**		**Sem-VI**
	Department : Computer Science and Engineering		**Date of Preparation:**
Roll No	3040,3041,3042,3048	Class	TY B.Tech
Project Title	Hostel Management System		
Student Name	1. Pawar Radhika Raju. 2. Todkar Sanika Vishnu. 3. Dinde Sanika Shashikant. 4. Bandger Aishwarya Sundar		

⊙ Introduction:

The hostel management system is the system that manages the details of the students staying in the hostel, admission details, staffs details and the fee paid by students details. It will be one of the important projects that will simplify the work of the institutions in getting the seats booked in the hostels with great ease. Hostels are the part of the institutions, which will help the students to stay here who are coming from far places. It will help the students in getting the seats in the hostels without any difficulty and will also help in maintaining transparency. It will help in simplifying life of everyone to acquire seats with great ease.

Hostel management gives on idea about how the students details, room allocation are maintained in the particular concern. The hostel management system also includes some special features. The administration has the unique identity for each members as well as students details. The modules of this project are student details, attendance details, room details, Payment details and student fee details.

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◌ Literature Review:

Sr.NO	Title of the paper	Authors	Publisher	Paper Gist
1	Hostel Management System	Ritesh Kumar Bista UG Student, Department of Computer Science and Engineering HMR Institute of Technology and Management, Delhi, India.	IEEE (2021)	• The management system makes the hostel allocation much easier for students. • It automatically selects the student from waiting list and also keep track of hostel fees,out pass generation,complaint registration etc.
2	Hostel Management System	Bikash Choudhary Bachelor of Computer Application, Department of Computer Science and Engineering, Galgotias University,Greater Noida, India.	IEEE (2022)	• Author have created JAVA which focuses on reducing the paperwork. • The framework replaces the manual hostel administration issues and also provides the data.
3	Hostel Management System	Srikant Patnaik, Khushboo Kumari Singh 1Assistant Professor, 2,4,5Student 1.Department of Computer Science and Engineering.	IEEE (2023)	• The Management System consists of eight main modules which are Registration, student ,Hotel Management, etc. • The system makes the work easier as it is paperless and it can be controlled from anywhere

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⭕ <u>**Relevance of the Work:**</u>

1. Hostel management systems allow those involved in managing hostels – as well as their employees – to centralize important information and data. This, in turn, allows individuals to carry out a wide range of common tasks from a single place, which can be especially valuable for improving efficiency.

2. As with other businesses within the hospitality industry, hostels are busy workplaces where many elements must be overseen simultaneously. This could include everything from managing inventory and reservations to processing payments and selling additional products or services to customers.

3. The best hostel management systems not only allow hostel owners and staff members to manage these various aspects of the business from one location, they also offer the possibility for employees to access the system remotely, and information that is updated within the system will automatically update for everyone using it.

4. Many parts of the travel industry are seasonal, which can sometimes mean handling sudden spikes in demand with limited staff. Hostel management systems can make work within a hostel easier and more efficient, while the automation options available can also help free up staff to focus on other parts of their job.

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⭕ <u>Proposed Work:</u>

A proposed hostel management system aims to streamline and enhance the operations of a hostel or dormitory facility. This system would utilize technology to automate various aspects of hostel management, making it more efficient and convenient for both administrators and residents. Here are some key features and components of a hostel management system.

1. **User Registration:** Students or residents can register online, providing their personal information, contact details, and room preferences.

2. **Room Allocation:** The system can automatically assign rooms based on available vacancies and user preferences, optimizing occupancy.

3. **Billing and Payment:** It can manage billing and payment processes, allowing residents to pay fees online and view their payment history.

4. **Attendance Tracking:** For institutions, it can track student attendance and generate reports for authorities.

5. **Security:** Implement access control systems and surveillance integration to enhance hostel security.

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⭕ <u>**Proposed Methodology:**</u>

This project is aimed at developing a system for keeping records and showing information about or in a hostel. This system will help the hostel officer to be able to manage the affairs of the hostel. This system will provide full information about a student in the hostel. It will show rooms available or not and number of people in a particular room. This will also provide information on students who have paid in full or are still owing. This system will also provide a report on the summary detail regarding fees and bills students are owing. Also included is a user module for employees or the hostel officer.

There will also be an administrator module which will accessed by the administrator and has the ability to delete, add and edit employee records. This system will be developed based on Software Development Life Cycle Java(JFrame, Mysql Database Netbeans IDE) is good for the development and design of web based programs whiles JAVA is good for databases because of its security and its advanced features and properties.

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⭕ HW/SW Requirement:

1. Hardware:

- Chrome, Mozilla Firefox, safari etc.
- Windows 7(32bit) or higher versions.
- Net Beans IDE.

2. Software:

- i5 Processor based computer.
- Internet connection.
- RAM 512GB or more.
- 5 GB Hard disk.

3. Programming Languages:

- Java
- JFrame Mysql database Netbeans IDE.

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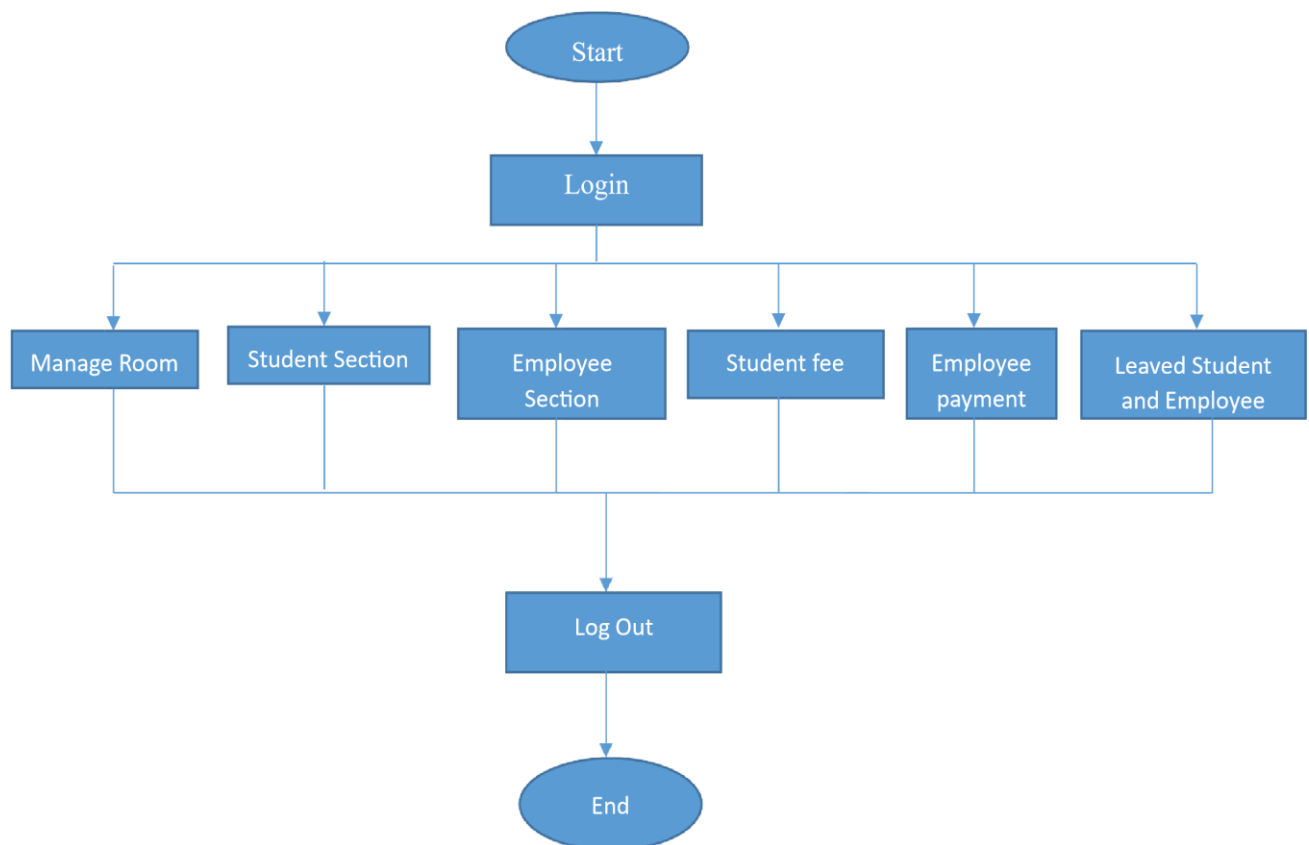| **Hon.Adv.Sadashivrao H Patil**	**Hon.Adv.Vaibhav S Patil**	**Dr.P.S.Patil**
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⭘ **Flowchart:**

Fig .1- Hostel management system

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⦿ **References:**

1. **Website References:**

1. https://drive.google.com/file/d/18pfaXhfTzVYw-LpCnuDbmlJelnrp6faF/view

2.https://www.academia.edu/37040228/HOSTEL_MANAGEMENT_SYSTEM_full_project

3.https://www.researchgate.net/publication/371280513_Hostel_Management_System_Report

4. Youtube

5. Google

2. **Example of journal Paper:**

https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&qu

eryText=hostel%20managament%20syetem

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⭕ <u>Signature Of Student:</u>

1. Pawar Radhika Raju (3040)   -
2. Todkar Sanika Vishnu (3041)   -
3. Dinde Sanika Shashikant (3042)   -
4. Bandger Aishwarya Sundar (3048) -

Signature of Guide   **Head of Department**