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The Hostel Management System

M.Nirmala, S.J.Hemanth

Assistant Professor, Department of Computer Applications, Hindustan College of Engineering and Technology,
Coimbatore, Tamil Nadu, India

MCA Student, Department of Computer Applications, Hindusthan College of Engineering and Technology,
Coimbatore, TamilNadu, India

ABSTRACT: The Hostel Management System (HMS) is a web-based application designed to streamline the management of hostel facilities and services. Developed using Python, Django, SQLite, HTML, CSS, and JavaScript, the system caters to the needs of hostellers, parents, wardens, and the principal. Hostellers can use the system to raise complaints regarding food, facilities, hygiene, or emergencies such as water or electricity outages. They can also provide feedback on hostel activities and receive responses from authorities. Parents have access to view feedback provided by hostellers. Wardens can view requests submitted by hostellers and respond to them promptly. The principal has comprehensive oversight, being able to view all requests, feedback, and responses. The system offers user authentication and permission management to ensure that only authorized users can access specific functionalities. It provides an intuitive user interface for easy navigation and interaction. Additionally, the system is designed for scalability, allowing for future updates and enhancements. The Hostel Management System aims to enhance communication and efficiency in managing hostel operations, fostering a better living experience for hostellers while facilitating effective administration for hostel authorities.

I. INTRODUCTION

In the realm of educational institutions, hostels stand as the sanctuaries of student life, providing not only accommodation but also a nurturing environment conducive to growth and development. However, managing the myriad aspects of hostel life, from facilities upkeep to addressing student concerns, can be a daunting task for hostel authorities. Recognizing this challenge, the Hostel Management System (HMS) emerges as a beacon of efficiency and organization, poised to revolutionize hostel administration. Hostel management poses unique challenges due to its diverse stakeholder landscape and the multifaceted nature of hostel operations. With a multitude of tasks ranging from facility maintenance to addressing student grievances, hostel administrators often find themselves overwhelmed by the sheer volume of responsibilities. Traditional methods of management, reliant on paper-based systems or disparate software solutions, fall short of meeting the dynamic needs of modern hostels. Furthermore, effective communication and coordination among hostel stakeholders are paramount for ensuring a positive living experience for students. Hostellers require a platform to voice their concerns, request assistance, and provide feedback on hostel facilities and services. Meanwhile, parents seek reassurance regarding their children's well-being, necessitating transparency and accessibility to hostel information. In this context, a comprehensive Hostel Management System emerges as a necessity, offering a unified platform for seamless communication and streamlined administration. The aim of this project is to enhance communication and efficiency in managing hostel operations, fostering a better living experience for hostellers while facilitating effective administration for hostel authorities.

II. LITERATURE SURVEY

2.1H. P, K. K. K, S. S. R, and M. S, "Hostel Management," 2022 1st International Conference on Computational Science and Technology (ICCST), CHENNAI, India, 2022, pp. 71-73, Doi: 10.1109/ICCST55948.2022.10040481.

The overwhelming majority of recently founded educational institutions manage their assets, in particular housing facilities, utilizing outmoded conventional methods. The inherent limitations and restrictions of outdated approaches have significantly harmed the organizational performance of educational institutions in general. The development of an automated system for managing hostel accommodations is advised by this study. According to the web-based system for managing hostels, the university hostel can successfully house college students. The computerized upkeep of the hostel records is useful. The major goal is to assist in automating the crucial chores of hostel management. The created system is more graphical user interface (GUI) focused, dependable, efficient, and secured with access control mechanisms, outperforming the shortcomings of conventional hostel administration techniques.

2.2 S.R. Ahmed, "Desktop GI application for hostel management of Punjab University Lahore", Journal of Himalayan Earth Science, vol. 45, no. 2, 2012.

To provide effective solution to escalating spatial problems of hostel management this paper provides a lay out of latest technologies which is applicable for not only interactive decision making, but also beneficial for risk management. The architectural plane of eight hostels of University of the Punjab, New campus Lahore and Google Earth imagery were selected to prepare geodatabase for spatial and non-spatial entities using ArcGIS 10. To manage effectively spatial and non-spatial data of a hostel requires the understanding and manipulation of a large number of variables. The spatial nature of the hostel and their associated resources were linked to students, departments and hostel management in Geographic Information System (GIS). Three story buildings of these hostels were digitized as three different layers with other basic layers. Student's data linked with rooms for query and visualization. Hostel management system also provided facility to manage immovable assets glued to the hostel property allotted to students and management staffs. ArcReader 10 was used for the data disbursement to different hostel offices and related department for the management of hostel assets and illegal hostels any time.

2.3 A. Khamis, D. Mohammed, A. Yahya and J. Pandey, "A Proposed Model based on Modern Requirements to Optimize Hostel Resources in Oman," 2020 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2020, pp. 688-693, Doi: 10.1109/ICRITO48877.2020.9197798

There are nearly 18 colleges and universities in Muscat such as Middle East College, Oman Tourism College, Arab Open University, Sultan Qaboos University and many others. The students come from different cities / countries in Oman because of that the Hostel becomes one of the successful businesses running these days. The aim of this research is to study and propose a Modern system for the student's hostel. This system will be catering to the needs of owners, employees, students and parents, where they will be able to manage the activities of the hostel in more active way and fast. Currently most of them, they use manual system to store their data and all the activity which must be store and reuse are in papers this data or record can be lost, in this case the employees will not be able to search about the available rooms and details of the residents. In addition, there are many calculation processes they must be clear about it such as the fees where in the papers they did many mistakes. However, the process such as add new records, update records, delete records and searching for specific records need and spend a lot of time, so this system will help them to have real and fast result to improve the work in the hostel. Making reports and share them with parents are a part of their difficulties.

2.4 S. R, M. S, K. K K and H. P, "Dormitory Management System," 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India, 2023, pp. 1-5, doi: 10.1109/ICCEBS58601.2023.10449199.

The "Dormitory Management" web application is devised with the primary objective of streamlining and optimizing the allocation of university hostel accommodations for college students, concurrently enhancing the efficiency of student activity tracking by hostel authorities. Serving as a digital repository for hostel records, this platform offers a centralized and automated solution for fundamental dormitory management tasks. The core aim of this research article is to meticulously explore the system's design, development, and functionality, showcasing its significant potential to markedly enhance the efficiency and effectiveness of hostel administration processes within educational institutions.

2.5 S. Bhardwaj, V. K, M. F. Ansari, B. P. Dash, P. Sharma and D. P. Singh, "Hybrid Technology Based Smart Hostel Management System Using Artificial Intelligence and Internet of Things," 2022 Fourth International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), Madya, India, 2022, pp. 1-5, doi: 10.1109/ICERECT56837.2022.10059715.

Notably in the last ten years, the number of learning organizations throughout the globe has grown at an unmatched pace. Teaching has now reached homesteads thanks to the growth. As a consequence, worldwide literacy levels have increased significantly in recent decades. As per reports, just 12% of the populace knew comprehend and write in 1820; nevertheless, data currently show a dramatic shift in or reversal of this trend: Figures prove that amongst 1820 and 2016, the high school graduation rate rose by 72%. If the pace of growth is considered, it is around 4% per five years, rising from 42percentage points in 1970 to 86% in 2015. Proper training has benefited in the development of intelligent people who can easily embrace and establish regulations for a civilized country, improving it and making an important contribution. However, the majority of recently built academic system, particularly dormitory amenities, still manage their possessions and property using outdated traditional methods.

2.6 C. T. Chye and S. A. Mubin, "A Residence: Development of Online Student Accommodation Management System for Asia Pacific University," 2023 3rd International Conference on Mobile Networks and Wireless Communications (ICMNWC), Tumkur, India, 2023, pp. 1-5, doi: 10.1109/ICMNWC60182.2023.10435913.

In this paper, an online student accommodation management system, known as A Residence, will be thoroughly discussed on to fully grasp the concepts and workings of the system. To begin, a general introduction to the study is provided; how the proposed accommodation management system would be able to solve the current existing issues in the managerial department of Asia Pacific University's student accommodation site. Extensive researches have also been highlighted to provide a clearer understanding of the domains that are correlated to the developed system. Details pertaining towards the technical aspect of the study such as the chosen programming language, libraries, and selected system methodology are also explained and justified in detail in the following sections. This paper will also provide general analysis of the domain data that was procured from the end-users of the system via distributed questionnaires and interviews

2.7 S. A. Kulkarni, V. D. Raikar, B. K. Rahul, L. V. Rakshitha, K. Sharanya and V. Jha, "Intelligent Water Level Monitoring System Using IoT", IEEE International Symposium on Sustainable Energy Signal Processing 2020 IEEE International Symposium on 2020, pp. 1-5.

Ever since the evolution of earth, water management has become one of the crucial factors for human survival. In evolving years, significant efforts have been put to come up with solutions based on IoT technology for areas such as water level measurement. The main issue that is being addressed in this work is about developing an efficient level sensor-based water monitoring system that monitors the water level in the domestic areas i.e. inside homes. The proposed system will detect the water level through depth sensors and verifies the threshold value that is set i.e. (>20 cm). If the value is less than threshold value, no action needs to be taken and if the value is beyond threshold value, the Arduino UNO alerts the user through call by using GSM module. Simultaneously, with the increase in the water level, the proposed system evacuates the water to a storage tank through submersible water pump. This extracted water can be used for some other purposes like watering plants, domestic usage etc. without wasting the water.

2.8 S. M. Lawal and O. Nwabueze Mombo, "Safety Compliance Assessment of Menial Workers at the Nile University of Nigeria Female Hostel Site," 2023 2nd International Conference on Multidisciplinary Engineering and Applied Science (ICMEAS), Abuja, Nigeria, 2023, pp. 1-6, doi: 10.1109/ICMEAS58693.2023.10379341.

Civil engineering projects place an importance on safety and efficiency, but the construction industry frequently fails to implement adequate safety practices. This study evaluates the compliance of menial workers on the Nile University of Nigeria female hostel site with safety standards and procedures. Through a periodic site inspection that included the use of a safety inspection checklist and questionnaires, prospective construction operations hazard and risks were identified and evaluated. The purpose of the study is to reduce or eliminate these hazards and risks by recommending appropriate safety measures. This research contributes to disaster prevention and injury reduction on construction sites and addresses the limited safety regulations and practices in the Nigerian construction industry and emphasizes the need for enhanced safety compliance.

2.9 I. Ishak, N. S. A. Rahman, H. Hamdan and F. Sidi, "Merit2U: An IoT-based merit point management system for university students' hostel application," 2017 IEEE International Symposium on Consumer Electronics (ISCE), Kuala Lumpur, Malaysia, 2017, pp. 76-77, doi: 10.1109/ISCE.2017.8355554.

Merit2U is a web-based system to manage merit points for students' college application. This system provides better merit point management where the points are calculated automatically and electronically using web-based application. Placement of hostel or colleges in university for students' needs proper mechanism as the number of students enrolled are always higher than the number of place to stay offered by the university. Therefore, universities always prefer active students to stay in the university hostel or colleges. Merit-based approach has always been the means for university to gauge the activeness of student in activities or events organized by the university. However, proper management of merit-based evaluation is needed as some universities still employ manual or paper-based merit management.

2.10P. Patra, P. Nayak, T. S. Sharma and P. Swarnalatha, "A Student Efficient Interface Application for Hostel Management, Security and Maintenance," 2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR), Sathyamangalam, India, 2023, pp. 1-3, doi: 10.1109/STCR59085.2023.10396987.

With problems existing in student's life such as registering a complaint to the Chief Warden follows a tedious process shuffling from one office to another. The mess feedback process exists in manual mode and not recorded properly. Improper management of faculty, organization, department details. We aim to make this digital platform mobile and easy to use with a simple user interface. The existing digital platforms require many things such as a machine and

internet connection. We have incorporated the human machine interaction aspect of the application in this paper and have demonstrated how the principles of Human Computer Interaction can be applied to the same. We also have included the result of Usability testing procedure conducted on the application.

III. WEB APPLICATION DEVELOPMENT

Web Application Development encompasses a range of technologies and frameworks aimed at creating interactive and dynamic websites accessible through web browsers. At its core, frontend development utilizes HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), and JavaScript to structure web pages, control their presentation, and enable interactive features, respectively. These frontend technologies work together to provide a visually appealing and responsive user interface, enhancing the overall user experience.

On the backend, server-side languages like Python (with frameworks like Django or Flask), JavaScript (Node.js), Ruby (Ruby on Rails), PHP, or Java (with frameworks like Spring Boot) handle server-side logic and interact with databases. Backend developers use frameworks and libraries to streamline development processes and ensure scalability, security, and maintainability of web applications. Databases play a crucial role in web application development, storing and managing data for the application. Developers can choose from various database management systems, including relational databases like MySQL or PostgreSQL and NoSQL databases like MongoDB or CouchDB, depending on the specific requirements of the application.

Web applications often rely on APIs (Application Programming Interfaces) to interact with external services or resources. RESTful APIs and GraphQL are common approaches for exposing backend functionality and data to frontend clients. Version control systems like Git, along with platforms like GitHub, GitLab, or Bitbucket, facilitate collaboration among developers, enabling them to track changes in code and manage project repositories effectively.



Fig 3.1: Web Application Development

Deployment and hosting options for web applications include cloud platforms such as AWS (Amazon Web Services), Microsoft Azure, or Google Cloud Platform, as well as traditional hosting solutions like shared hosting, VPS (Virtual Private Server), or dedicated servers. Security is a critical consideration in web application development, with measures such as SSL/TLS certificates, authentication, authorization, input validation, and sanitization being essential to safeguard against security vulnerabilities and protect user data.

By using these technologies and best practices, web developers can create robust, scalable, and secure web applications that meet the needs and expectations of users while delivering a seamless and engaging user experience.

3.1 HOSTEL MANAGEMENT

The Hostel Management System (HMS) represents a holistic approach to hostel administration, integrating diverse functionalities within a single, user-friendly interface. Developed using cutting-edge technologies such as Python, Django, SQLite, HTML, CSS, and JavaScript, HMS embodies the fusion of innovation and practicality. Designed to cater to the needs of hostellers, parents, wardens, and principals, the system encompasses a wide array of features aimed at enhancing efficiency, transparency, and accountability.

IV. METHODOLOGY

The primary objective of the Hostel Management System is to address the aforementioned challenges and improve the overall efficiency, transparency, and accountability of hostel administration. Specifically, the system aims to:

- To provide hostellers with a user-friendly platform to raise complaints, make requests, and provide feedback, ensuring effective communication with hostel authorities.
- To enable parents to access real-time information about hostel facilities, services, and their children's well-being, fostering transparency and proactive parental involvement.
- To empower wardens with tools to efficiently manage hostel operations, including streamlined processes for addressing complaints, responding to requests, and coordinating emergency responses.
- To establish a centralized system for tracking complaints, requests, and feedback, thereby promoting accountability among hostel authorities and ensuring timely resolution of issues.

4.1 Disadvantages

- Manual Record-Keeping
- In-Person Communication
- Limited Transparency
- Reactive Maintenance
- Limited Data Analysis

4.2 User Roles and Permissions

The proposed system caters to multiple user roles, each endowed with specific privileges and responsibilities tailored to their respective roles. The primary user roles include:

- **Hostellers:** Students residing in the hostel have access to functionalities such as lodging complaints, making requests, providing feedback, and accessing relevant hostel information.
- **Parents/Guardians:** Parents or guardians of hostellers can view hostel-related information, including feedback provided by their children, ensuring transparency and peace of mind.
- **Wardens/Administrators:** Warden or hostel administrators are responsible for managing hostel operations, including handling complaints, responding to requests, and coordinating emergency responses.
- **Principal/Authority:** The principal or designated authority oversees hostel administration, gaining insights into hostel operations, feedback trends, and administrative activities.

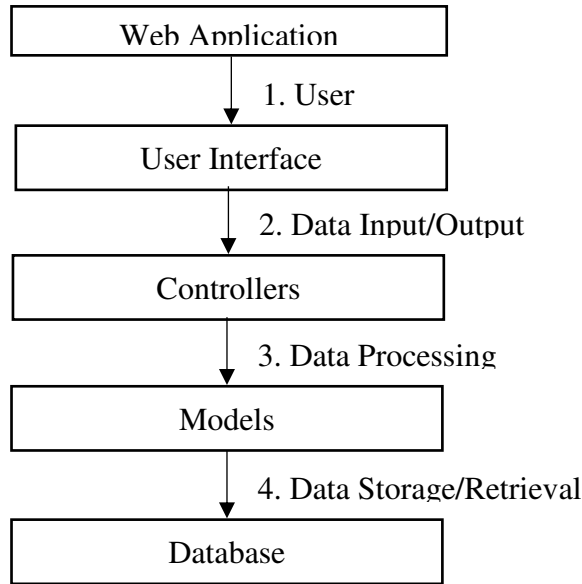
4.3 Benefits and Impact

The proposed Hostel Management System offers a multitude of benefits to hostel stakeholders, educational institutions, and hostel administrators alike. These include:

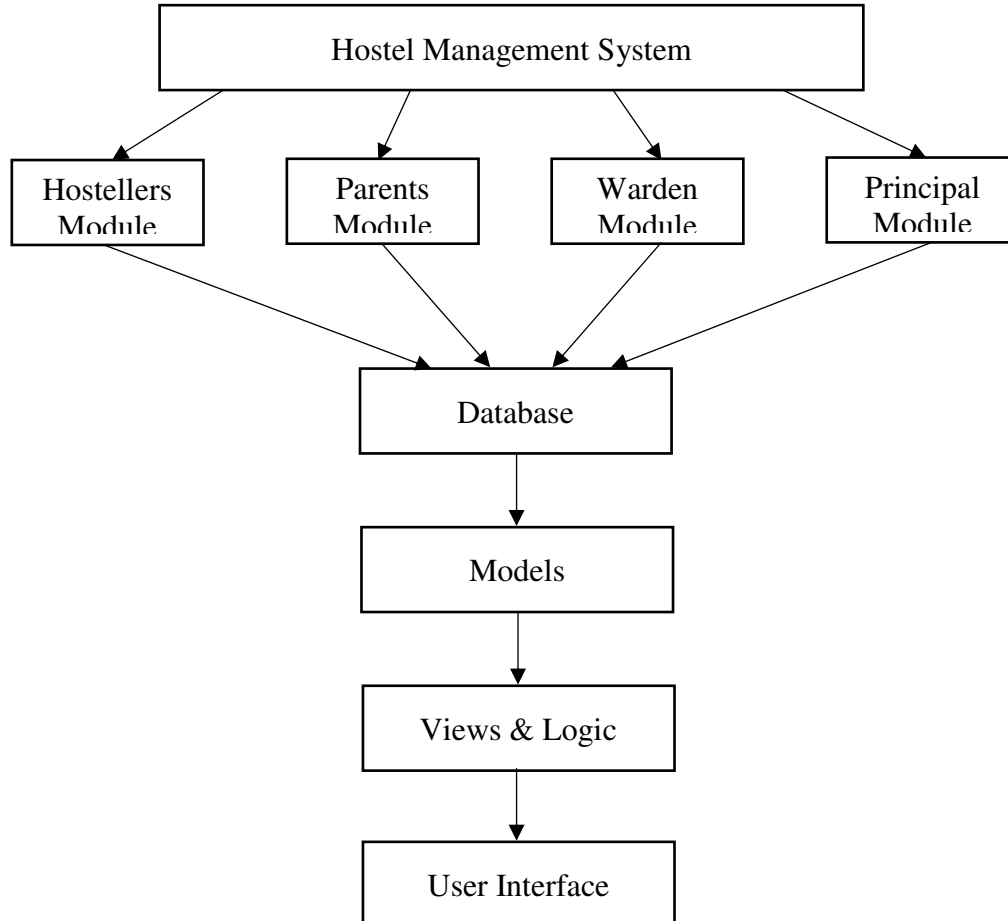
- **Improved Communication:** The system serves as a centralized platform for hostel stakeholders to communicate, collaborate, and address concerns effectively, fostering a culture of transparency and accountability.
- **Enhanced Efficiency:** Automation of routine tasks, such as complaint management and request processing, streamlines hostel operations, allowing wardens to allocate resources efficiently and respond promptly to hostel-related issues.
- **Transparency and Accountability:** By providing real-time access to hostel information and feedback, the system promotes transparency and accountability among hostel authorities, ensuring that concerns are addressed promptly and effectively.
- **Parental Engagement:** Parents or guardians are empowered to actively participate in their children's hostel experience, staying informed about hostel conditions, and contributing to the overall well-being of hostel residents.

V. SYSTEM DESIGN

5.1 DATA FLOW DIAGRAM



5.2 BLOCK DIAGRAM



VI. MODULES

The Hostel Management System comprises several interconnected modules, each serving a specific purpose and catering to the diverse needs of hostel stakeholders. These modules facilitate seamless communication, efficient workflow management, and enhanced transparency in hostel administration.

6.1 Hostellers Module

At the heart of the system lies the Hostellers Module, designed to empower hostel residents with tools to voice their concerns, make requests, and provide feedback on hostel facilities and services. Through this module, hostellers can lodge complaints regarding issues such as food quality, facility maintenance, hygiene standards, or infrastructure deficiencies. They can also submit requests for amenities, services, or assistance, such as medical emergencies, water or electricity disruptions, or maintenance requests. Additionally, the module facilitates a feedback mechanism wherein hostellers can share their experiences, suggestions, and grievances, enabling hostel authorities to address concerns promptly and make informed decisions to improve hostel conditions.

6.2 Parents Module

Parents or guardians of hostellers are granted access to the Parents Module, providing them with real-time insights into their children's hostel experience. Within this module, parents can view hostel-related information, including feedback provided by their children, complaints lodged by hostel residents, and overall hostel conditions. This transparency fosters peace of mind and reassurance for parents, enabling them to stay informed and actively participate in ensuring their children's well-being while they reside in the hostel.

6.3 Warden Module

The Warden Module serves as a central hub for hostel administrators or wardens, facilitating efficient workflow management and communication with hostel residents. Through this module, wardens can view and prioritize pending complaints, requests, and feedback submitted by hostellers. They can take appropriate action, such as assigning tasks, coordinating emergency responses, or communicating updates to hostel residents. The module also enables wardens to maintain a record of hostel activities, track response times, and ensure compliance with hostel policies and regulations.

6.4 Principal Module

As the ultimate authority overseeing hostel administration, the Principal Module offers a comprehensive overview of hostel operations, feedback trends, and administrative activities. Within this module, principals can access aggregated data on complaints, requests, and feedback submitted by hostellers, along with the corresponding responses provided by wardens. This holistic perspective enables principals to make informed decisions, identify areas for improvement, and implement strategic initiatives to enhance hostel conditions and student satisfaction.

VII. RESULTS AND DISCUSSION

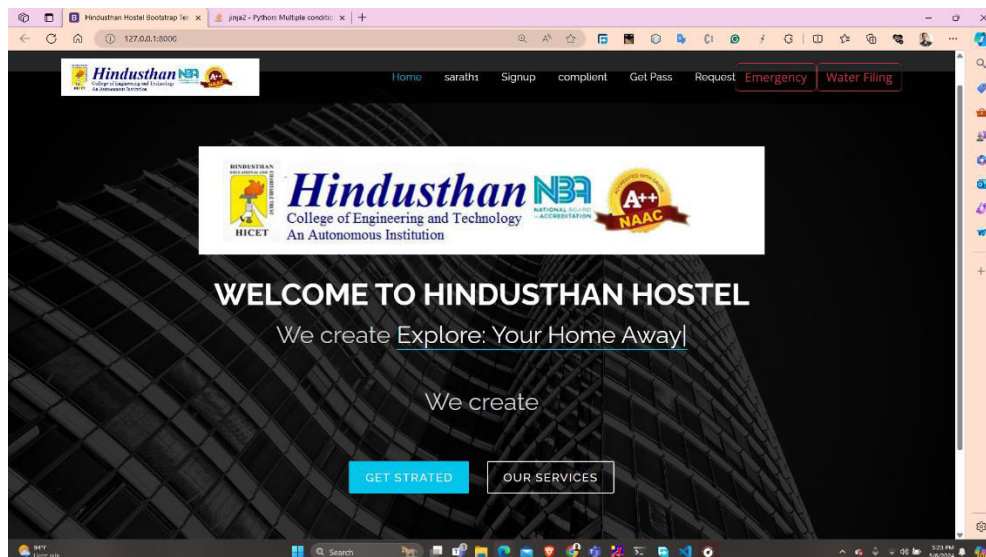


Fig 7.1

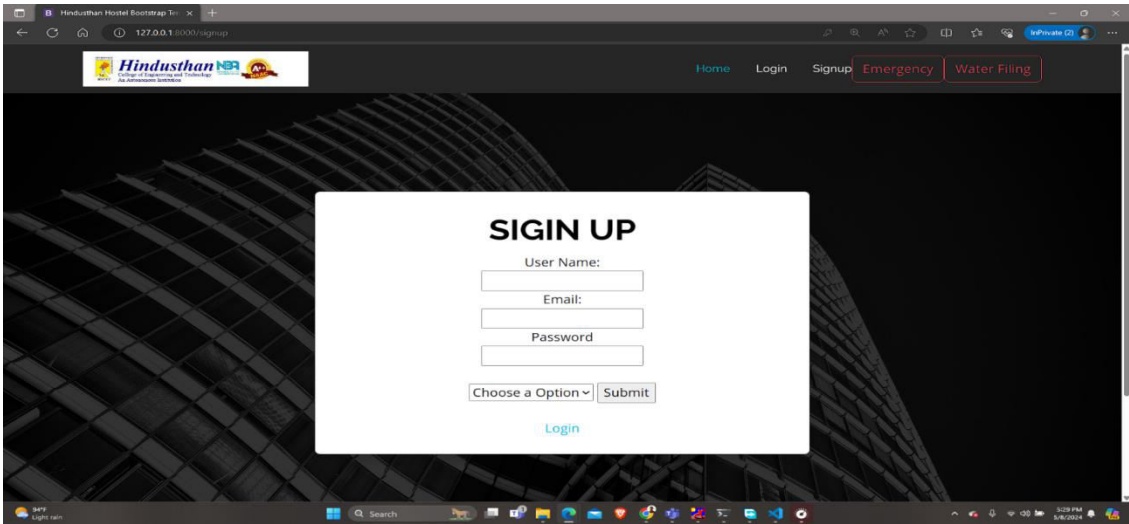


Fig 7.2

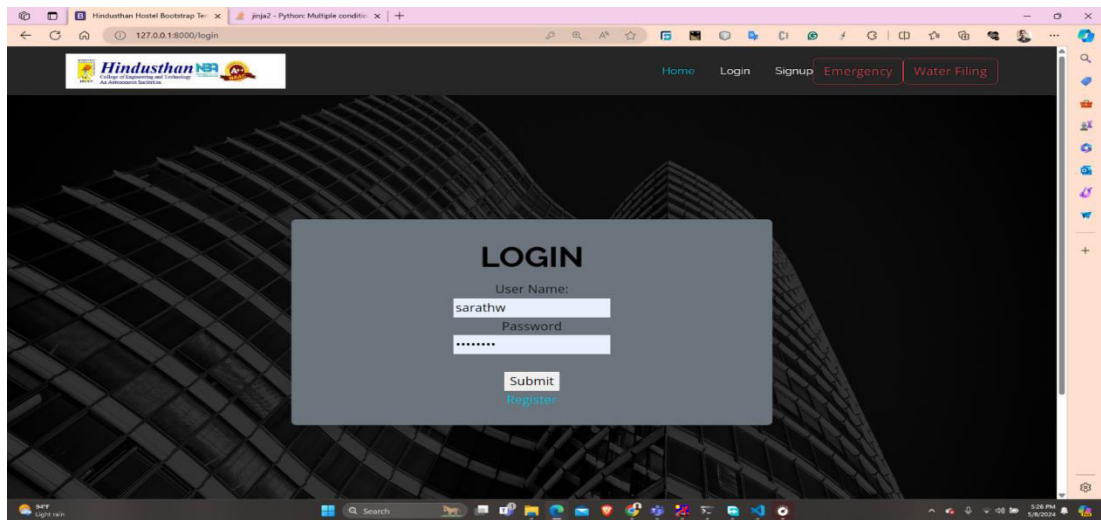


Fig 7.3

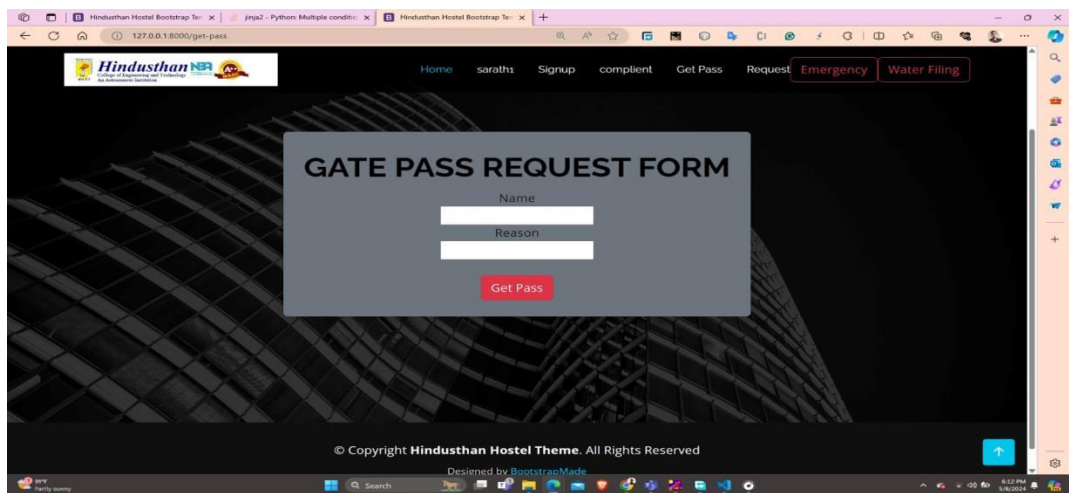


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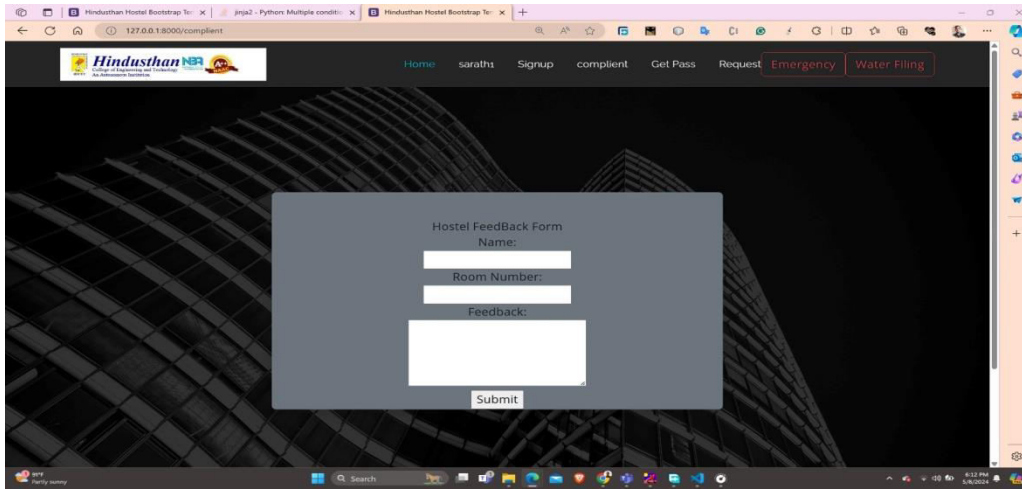


Fig 7.5

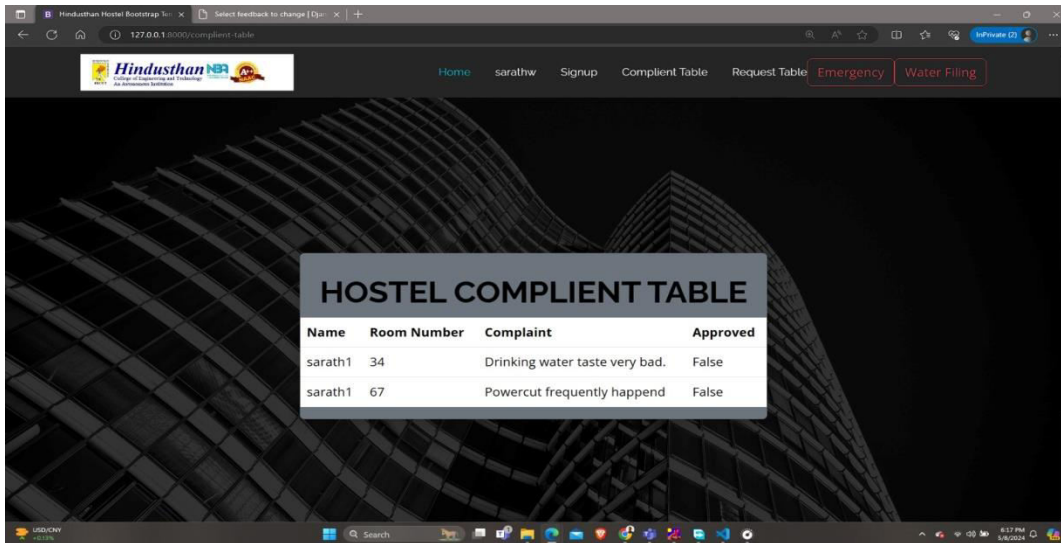


Fig 7.6

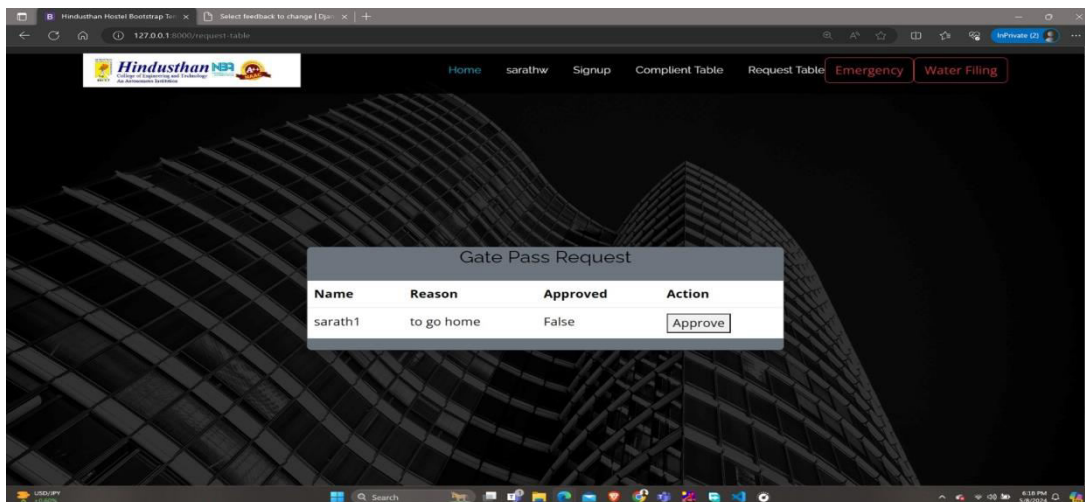


Fig 7.7

VIII. CONCLUSION

The Hostel Management System (HMS) represents a comprehensive solution designed to streamline hostel administration and enhance the living experience for hostel residents. Through its modular architecture and user-centric design, HMS facilitates seamless communication, efficient workflow management, and transparent decision-making among hostel stakeholders. The system's key components, including the Hostellers Module, Parents Module, Wardens Module, and Principal Module, cater to the diverse needs of hostel residents, parents, wardens, and principals, respectively. Each module provides specific functionalities tailored to the roles and responsibilities of its users, fostering collaboration and accountability in hostel operations. By using modern technologies such as Python, Django, SQLite, HTML, CSS, and JavaScript, HMS offers a robust and scalable platform for managing hostel facilities, addressing complaints, responding to requests, and soliciting feedback. Its intuitive user interface, coupled with advanced data management capabilities, ensures a seamless and engaging experience for users across all modules. Moreover, HMS serves as a catalyst for continuous improvement in hostel management, enabling administrators to identify and address issues proactively, monitor feedback trends, and implement targeted interventions to enhance hostel conditions and student satisfaction.

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