



Web Based Smart Hostel Management System

Mahendra M¹, O.Lavanya,²A.Bhargava Reddy³,C.Keerthi⁴, N.Chandana⁵, S.R.Ambika⁶

¹Assistant Professor Department of Computer Science and Engineering, Sanskrithi School Of Engineering,Puttaparthi, Andhra Pradesh- 515134, India

²Department of Computer Science and Engineering, Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh- 515134, India

ABSTRACT

Hostel may be a place that is simply like second home for the people that lives outside from the house they feel safe whereas living in hostel. Hostel is additionally the way to earn cash for several people that square measure operating there as worker. For the last few years, the quantity of educational establishments rectangular degree measure growing chop-chop. Thereby the quantity of hostels al is also growing for the accommodation of the students locating out through this establishment. There square measure millions of activities must be exhausted the hostel. So, to manage the info and data of the one that live there's an awfully advanced task. It wants a great deal of your time of the many people that square measure managing it. This express project offers with the troubles on direct a hostel and avoids the troubles that happen once carried manually. Identification of the defect of the immediate results with in the planning of automated system that may be compatible to the present system that is a lot of user friendly. The common transactions of the hostel embrace the upkeep of mess bills, info concerning students within the hostel, enrolling of latest students and their payments and dues etc square measure keep into the databases and reports square measure generated in step with the user needs.”

INTRODUCTION

Educational institutions has been up quickly for the past few years. There has been a cosmic increment in the quantity of educational sector notably over the foremost recent four decades everywhere throughout the planet.A large portion of the recently established academic establishments, utilizing the recent normal procedures for addressing all the record keeping and particularly for managing hostel facilities. This recent methodology of managing records thus have Associate in Nursing adverse impact on the potency of the establishment. The projected framework overcomes the disadvantages of ancient techniques for hostel administration; it's easier to use, graphical-UI homeward.

OBJECTIVE

Hostel Management System may be a system for managing the varied activities within the hostel. it's used for managing the hostel data. It manages the scholar data, space data, space allocation details, fee details, mess bill details and worker details of the hostel. it's conjointly wont to generate reports of student details, fee details and mess bill details of the scholar. It keeps track of the quantity of scholars within the space and accessibility of the space. It assign organization from the labouring work from that it is terribly durable to drop in the record of the intellect and also the mess bills of the intellect.

DRAWBACKS:

- Time overwhelming
- More Human Error
- Low Security
- Difficult to update information
- Inaccuracy of information

PROPOSEDSYSTEM:

The downside of the prevailing system is that it's terribly tough to retrieve knowledge from records. it's tough to handle the full system manually and it's less correct and to stay the info in records for future reference as a result of it's going to get destroyed. Moreover, it's terribly tough to retrieve knowledge. Redundancy of information could occur and this could cause inconsistency. The manual system is therefore time overwhelming. The planned system is incredibly straightforward to control. Speed and accuracy ar the most blessings of the time. The planned system. there's no redundancy of information. It will be simply retrieved and used at any time. The planned system can simply handle all the info and also the work done by the prevailing systems. The planned system eliminates the drawbacks of the prevailing system to a good extent and it provides tight security to knowledge.

ADVANTAGES:

- Speed retrieval of information.
- High security.
- Easy to handle, update and keep record.
- Requires less human power.

LITERATURE SURVEY

The title of the paper [1] Hostel Management System is developed for managing several activities within the hostel. Recent years the amount of instructional foundations are increasing at full tilt. There by the amount of hostels is moreover enlarge for the accommodation of the intellect learning during this establishment. Accordingly there's heaps of strain on the one who area unit handling the hostel. This peculiar project deals with the pointon managing a hostel andkeeps away from the issues that occur once carried hand operated.

During this paper [2], Hostel is block head application to alter the manual hostel management system of particular hostel related to school. It solves the necessary troubles like area allocation, fee and fee receipt management, student management, grievance management, maintain traveller records, intellect leave management, and see board. This application provides some extra resources like secure customers authentication, automated hostel pass, live notification, required kind updates, user profile administration.

SYSTEMREQUIREMENTS:**Software Requirements:**

XAMPP Server.

Platform: Windows 7 and above.

Programming languages:

Front End: HTML5, CSS3.

Back End: PHP, MySQL.

Hardware Requirements:

Processor i3

Memory – 4GB RAM

Hard Disk – 250GB

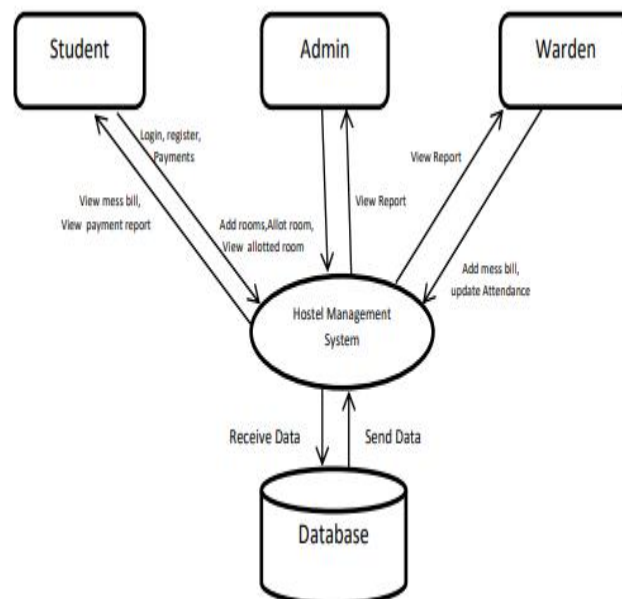
SYSTEM ARCHITECTURE:

Figure 1: HMS Architecture

DESCRIPTION

Online application module: Student has to fill the appliance kind through on-line to hitch hostel. peace officer can check obtainable rooms and approve the appliance of student.

Events module: This module permits administrator to transfer news and events.Public web site guests will read printed news and events.

Admin account module: Administrator is that the main user of system United Nations agency will monitor complete standing of the web site. Admin will add peace officer details, webpages, events, space settings, etc. solely the administrator will read all kinds of reports.

Warden Account module: This module is for hostel peace officer United Nations agency allots rooms to the hosteller. peace officer can submit daily attending of the co-ed. peace officer will add and look at space chart, attending report, Payment report, mess bill report, etc.

Admission module: This module can apportion an area to hosteller . an area can allotted to a hosteller associated an ID can generate for it. Even it displays the main points of the hostellers staying in rooms. eventually once student leaves the area its detail like Exit date conjointly stores within the information. The system generates admission charge with written receipt.

Hosteller account module: hosteller will read his attending report and unfinished mess bill, hostel fees through on-line. Hosteller must login to the system to access this feature. It contains the subsequent information: i.e. Students Profile details, Contact info, oldsters detail, etc. The Users will search the scholars from the info in keeping with completely different criteria like name, Course, area range, etc.

Room settings module: This module permits administrator to feature hostel area details with price, area range, capacity, etc.

Room chart module: This module displays several what percentages what number rooms vacated and the way many rooms are full. Admin and law officer will read live report through on-line.

Hosteller group action module: This module law officer to enter group action details of the scholar. Admin will read monthly or daily group action report.

Mess Bill module: This module keeps track of all the transactions associated with mess. The mess item expenditure for every student within the hostel is calculated for every month and therefore the mess bill for every hosteller calculated and displayed.

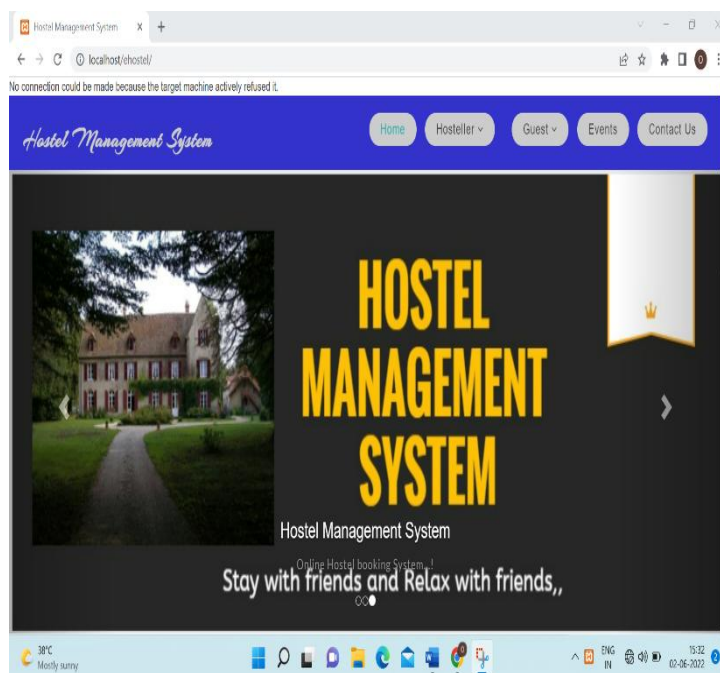
Payment module:This module permits student to create payment through on-line. this enables to create monthly mess bill payment and year wise space bill payment.

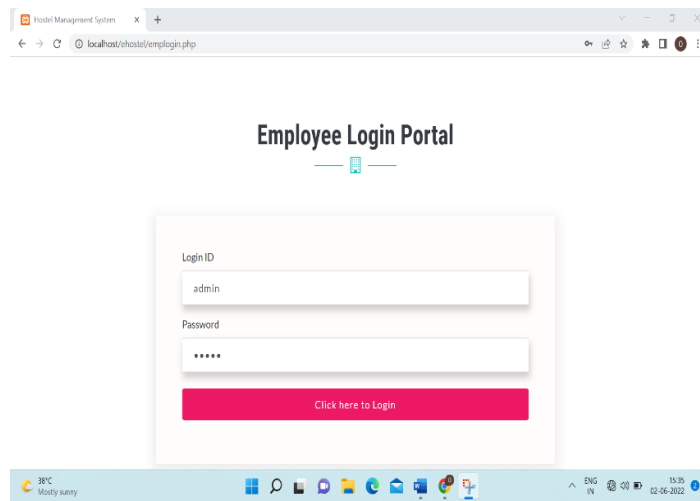
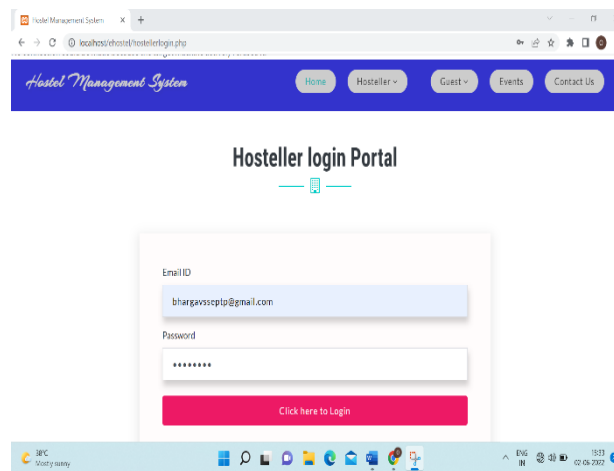
Guest module: This module helps for guest to book the area by coming into name, from date, todate, etc. Guest needs to pay Rs. five hundred per day for the area and on-line payment on the market for the guest.

Report module: Report module: Report generation is additionally provided to look at summarized detail relating to hostel fees and mess bill. It consists Hostel fees, Mess directory reports. Bonaface will inspect hostel fees and mess bill by entering into their individual Hostel.

OUTPUT SCREENSHOTS

HOME PAGE:



EMPLOYEE LOGIN:**STUDENT LOGIN:****CONCLUSION**

The Hostel Management System decreases the physical work for the learners of the organization. It saves time, resources and reduces redundancy of the knowledge. It's very economical compared to the paper work that was used before the automation of the system. The hostel management system reduces the employment of the paper. The hosteller and hostel info is held on in info. data held on inside the knowledge can simply be retrieved, and updated or even deleted. Links unit provided in each page therefore the user can move from one page to a precise quickly.

FUTURE ENHANCEMENT

In the future work, we'll extend our work to implement associate golem or iPhone compatible application inside the long haul. Biometric Fingerprint event system will even be additional inside the long haul.

REFERENCES

- [1]. Bikash Choudhary, Deepak Kumar, Deepika Priyadarshini Khatua, Ajit Kumar Patro, "Online Hostel Management System".
- [2]. O. Shoewu; S.A. Braimah; and O. Duduyemi, "Design and Implementation of Hostel Management System (HOMASY): LASU as Case Study"

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- [3]. Christoph Jechlitschek, "A Survey Paper on Radio Frequency Identification (RFID)" Iqra Basharat, Farooque Azam, "Database Security and Encryption: A Survey Study", International Journal of Computer Application(0975-888) Volume 47-No.12,June 2012.
- [4]. Intelligent security system for girls in hostel Amol Sapkal¹, Samiksha U.Katait², Puja S. Ingole³, Neha Dumre⁴, Preeti Ughade IJARSE, Vol. No.4, Special Issue (01), March 2015
- [5]. Aamir Nizam Ansari, A. Navada, S. Agarwal, S. Patil and B. A. Sonkamble, "Automation of attendance system using RFID, biometrics, GSM Modem with .Net framework," 2011 International Conference on Multimedia Technology, Hangzhou, 2011, pp. 2976- 2979.
- [6]. Marshall, Esther and Lynette Mackenzie. "Adjustment to residential care: the experience of newly admitted residents to hostel accommodation in Australia." Australian occupational therapy journal 55 2 (2008): 123-32 .
- [7]. Ayanlowo, Kola, et al. "Development of an Automated Hostel Facility Management System." Journal of Science and Engineering 5.1 (2014): 01-10.
- [8]. Sabeha, K., and P. Sukumar. "Highly Secured Indoor Outdoor Localization for E-Hostel Management." Journal of Network Communications and Emerging Technologies (JNCET) 5.1 (2015): 30-34.