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A FRAMEWORK TO ENHANCE THE ACCOMODATION MANAGEMENT SYSTEM

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Batch No:1923ITP004



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1.ABSTRACT

Now a days different technologies are taken into place in every aspect and it is important to improve the Accomadation management system and make the process of interaction between Accomadation management and people automate.In the traditional system, everything was done manually, including applying for the hostel, assigning rooms, paying bills, and scheduling meals. The process of visiting a hostel, determining which rooms are available and paying fees while in a line and it will take delay in all aspects. The system created makes it simpler for people who want to remain in rooms to find out information about the rooms by using the application on their mobile devices or laptops. It also assists the management in keeping the rooms in good condition. This particular project helps to address problems that arise when information is provided manually as well as challenges related to managing a hostel.

2.INTRODUCTION

There has been an astronomical increase in the number of hostels as increase educational institutions established especially in the last four decades all over the world and raise in number of people staying in hostels for other purposes like jobs etc. This development has brought education to the doorstep of people. Most of the newly established educational institutions however, are using the old conventional techniques for managing their assets especially hostel facilities. This old techniques with its inherent limitations have impacted negatively on the overall organisational efficiency of this educational systems. Every one of these hostels are handled through manual operation by the hostel office. The Registration frame confirmation to the various information processing are done physically. In this way, there are a great deal of redundancies which can be effectively avoided.

2.INTRODUCTION...

Subsequently there is a lot of strain on the individual who are running the hostel. The system allows hostel administrators to efficiently manage student check-ins and check-outs, as well as room allocations based on room preferences, occupancy, and availability. The system makes the application available in three modes to manage the hostel. Each mode is managed by different people or users; they are superadmin, admin, and user. Where the superadmin manages the whole hostel application and admin is to take care of the children and user extends to students, who use to find the rooms in the hostel, which are available and which are filled, and know the users who are there in the rooms they selected. People can be able to pay the bill using this application. Complaint generation also can be done by students through this application.

3.PROBLEM STATEMENT

In the current system, everything was done manually, including applying for the hostel, assigning rooms, paying bills, and scheduling meals. It takes a long time to visit a hostel, determine which rooms are available, pay fees by standing in lines, and do everything else. The system created makes it simpler for people who want to stay in hostels to learn about the hostel's specifics by using the web application, and it also assists hostel management in keeping the hostel in good condition.

4.METHODOLOGY

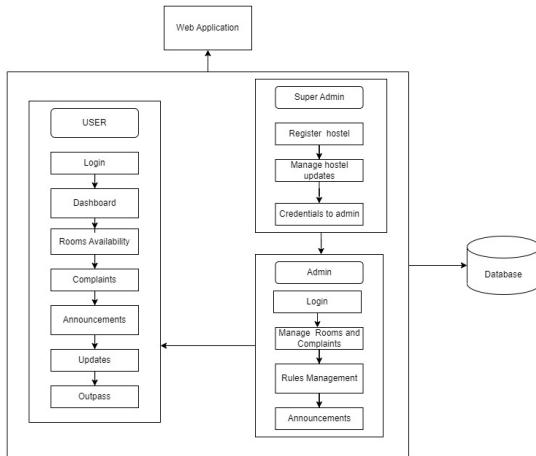
Agile methodology is an approach used for project development that facilitates responding to the volatility of producing software through incremental, iterative work environments. Agile development methods are used to create web applications.

The first step is to define the scope of the project, which includes the features and functionalities of the accomadation management system. The scope of this proposed project is categorized into three categories that are user, admin and super admin.

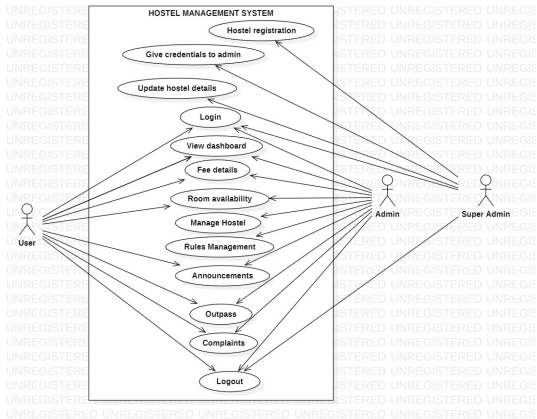
4.METHODOLOGY...

1. If it is user he/she login the account and typically involves using the app to interact with the hostel and access its products and services such as booking rooms,paying fee,outpass requesting,complaints generating and all hostel activities.
2. If it is Superadmin he/she login the account and would involve managing and overseeing various administrative tasks and functions within the app to ensure smooth and efficient operations,Primarily he will give access to admin to update the hostel activities.
3. If it is admin he/she login the account the credentials which is given by the superadmin And also responsible for analyzing data such as user complaints,announcements and manages all other hostel activites.

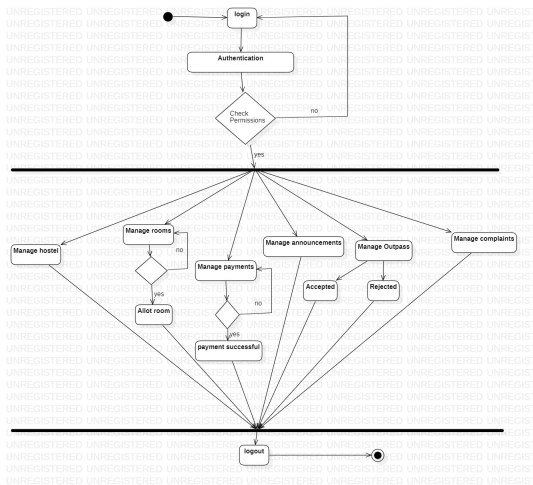
5.DESIGN



Usecase Diagram



Activity Diagram



6.LITERATURE SURVEY1

Title	Automated Hostel Facility Management System Website
Abstract	The Hostel Management framework is a web application which is created for managing different activities in hostel.This project is expected to limit human works and make hostel works much easier.The services involved in this paper are Allocation, Mess billing, Outpass generation, Students presence in hostel and curricular will send to their parents through email
Existing system	Manually maintained system
Methodology	SDLC

LITERATURE SURVEY1...

Technologies	Python with Django,HTML,CSS,MYSQL
Proposed system	To reduce the all the human work,a framework called hostel management is proposed which is a web application.This framework can automates the all the activities occurring in hostel.The proposed system runs on server with robust database and allows students and employees to manage various activities in a computerized manner
Conclusion	In the conclusion of this project,following are the benefits Out Pass Generation, Students can register their Complaints, Maintain and Manage hostel information easily

LITERATURE SURVEY2

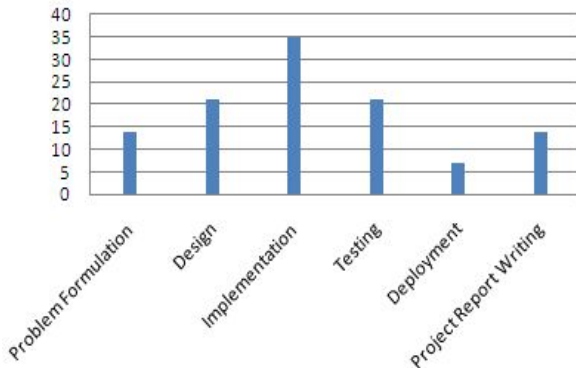
Title	A Study on Shift towards Digitization of Hostel Room Allotment of a Hostel Room Allotment for a University
Abstract	The work aims to develop an online room allocation process over a conventional room allotment process held in several big universities or colleges.the service involved in this is allotment
Existing system	Conventional room allotment
Methodology	ERP(Enterprise resource planning)is integrated process management software that covers to applications of all aspects of an organization

LITERATURE SURVEY2...

Technologies	HTML,CSS
Proposed system	The proposed system is a online room allotment web portal through which students can eliminate these problems and increase ease of room allocation
Conclusion	The success of this work lies in the domains of time reduction as well to make the hostel room allotment procedure easy for students and management

7.GANTT CHART

Time Schedule of the Project



8.PROPOSED SYSTEM

The hostel management system is a web application that available in three phases for multiple uses. The phases are available for superadmin who mange whole hostel and second is for admin who manages the users and users who can see the hostel rooms, complaint registration, finding out mess timing, food items every day, and find out the details of rooms and students in rooms, number of rooms available, food menu of each day, major announcement like electricity and water problems, things of the seniors that are going to sale out etc.

8.HARDWARE/SOFTWARE IMPLEMENTATION

- 1.User Module
- 2.Admin Module
- 3.Super Admin Module

8.1 User Module

User registration: This feature allows users to create an account on the hostel management system by providing their personal details, contact information, and other relevant information.

Login and authentication: Once a user has registered, they can log in to the system using their email address and password. The user module provides authentication and security features to protect user data and goes to the user dashboard.

Overall, the user module in a hostel management system helps to streamline the user experience by providing a centralized platform for managing user accounts, bookings, and payments, complaint generation, outpass request and Announcements.

8.2 Admin Module

User management: The admin module allows the hostel management team to view and manage user accounts, including user registration, login, authentication, and password reset.

Overall, the admin module in a hostel management system provides the management team with centralized tools to manage various aspects of the hostel, including users, rooms, meals, payments, complaints, staff, and inventory. This helps to improve the efficiency and effectiveness of hostel operations, resulting in a better user experience for guests.

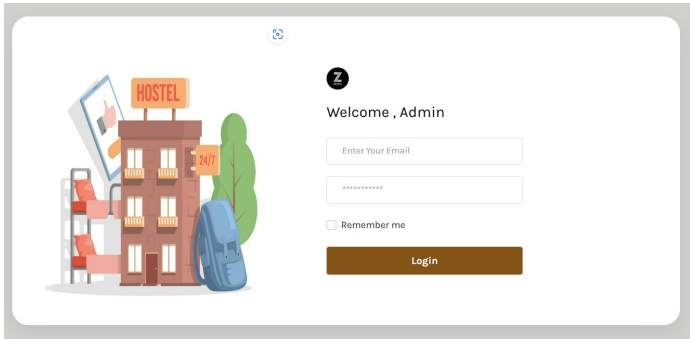
8.3 Super Admin Module

System configuration: The superadmin module allows the system administrator to configure system settings, such as database connections, email servers, security policies, and other system-wide settings.

User role management: The superadmin module allows the system administrator to define and manage user roles and permissions. This enables the system administrator to control access to system features and data.

Overall, the superadmin module in a hostel management system provides the system administrator with centralized tools to manage various aspects of the system, including configuration, security, monitoring, backups, upgrades, and integrations. This helps to ensure the smooth and secure operation of the hostel management system.

10.RESULT



Search:

Sno	Out date	In date	Status	Details
1	2023-03-04	2023-03-02	Approved	Click
2	2023-03-22	2023-03-23	Approved	Click

1. water facilities

SB Admin 2 - Dashboard x +

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/bookrooms.php

Applications of Mic... (PDF) A NUMERICA...

USER 1

Dashboard

INTERFACE

Utilities

ADDITIONAL

Hostel Members

Welcome , User

Day's

sasi

Total 14 of capacity

Book a Room

Powered by 000webhost

◀ ◻ ▶ ◀ ◻ ▶ ◀ ≡ ▶ ◀ ≡ ▶ ≡ ▶ ↺ 🔍 ↻

SB Admin 2 - Dashboard x +

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/bookrooms.php

Applications of Mic... (PDF) A NUMERICA...

USER 1

Dashboard

MEMBERS

USERS

ROOMS

Hostel Members

Welcome

Rooms Info

Redg	Name	Branch
19k61a1209	jithendra	IT

OK

1 Capacity : 4

2 Capacity : 4

3 Capacity : 4

4 Capacity : 4

7 Capacity : 4

8 Capacity : 4

9 Capacity : 4

Book Room

No Members Found

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37°C Haze

Search


ENG IN


17:37 20-04-2023

SB Admin 2 - Dashboard


hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/fee.php


Applications of Mic... (PDF) A NUMERICA...


 USER 1


 Dashboard

INTERFACE

 Utilities


 Hostel Members





Welcome , User

Redgno	Name	Branch	Section	Year	Fee	Status
19k61a1209	jithendra	IT	A	IV	63000	Pending

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SB Admin 2 - Dashboard x +

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/reqcomplaint.php

Applications of Mic... (PDF) A NUMERICA...

USER 1

Dashboard

INTERFACCE

Utilities

ADDITIONAL

Hostel Members

jjthendra

Raise Complaint Form

Raise Complaint

Type Complaint Here

Raise Complaint

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SB Admin 2 - Dashboard

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/hostelmembers.php

Applications of Mic... (PDF) A NUMERICA...

USER 1

Dashboard

INTERFACE

Utilities

ADDITIONAL

Hostel Members

jithendra

Welcome , User

Show 10 entries

Search:

Redgno	Name	Branch	Section	Year
19k61a1209	jithendra	IT	A	IV
19k61a1247	SK.Haseena	IT	A	IV

Showing 1 to 2 of 2 entries

Previous1Next

https://hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/hostelmembers.php#

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SB Admin 2 - Dashboard

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/index.php

Devil

ADMIN

Dashboard

INTERFACES

Utilities

CUSTOM UTILITIES

Add Hostel

Hostel Blocks

Post Announcement

Outpass

Complain Box

Fee Payments

Welcome , Admin

TOTAL STUDENTS
5

EMAILS SENT
12

TOTAL COMPLAINTS
1

EMAILS ACCEPTED
6

Sent Invitation Link

Email

xxxxxxx@gmail.com

Role

Select the Role

Send Link

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SB Admin 2 - Color Utilities

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/utilities-color.php

Dev

ADMIN

Dashboard

INTERFACES

Utilities

CUSTOM UTILITIES

Add Hostel

Hostel Blocks

Post Announcement

Outpass

Complain Box

Fee Payments

Hostel Enroll Form

Add Hostel

Enter Hostel Block Name

Select Hostel Type

Hostel Start Time

Hostel End Time

Mess Start Time

Mess End Time

Description of Hostel Block

Add Details

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SB Admin 2 - Border Utilities

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/Utilities-border.php

ADMIN ?

Dashboard

INTERFACES

Utilities

CUSTOM UTILITIES:

- Add Hostel
- Hostel Blocks
- Post Announcement
- Outpass
- Complain Box
- Fee Payments

Dev

Boy's

sasi

Total 14 of capacity

Edit Rooms

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SB Admin 2 - Color UTILITIES

hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/Utilities-animation.php

ADMIN ?

Dashboard

INTERFACES

Utilities

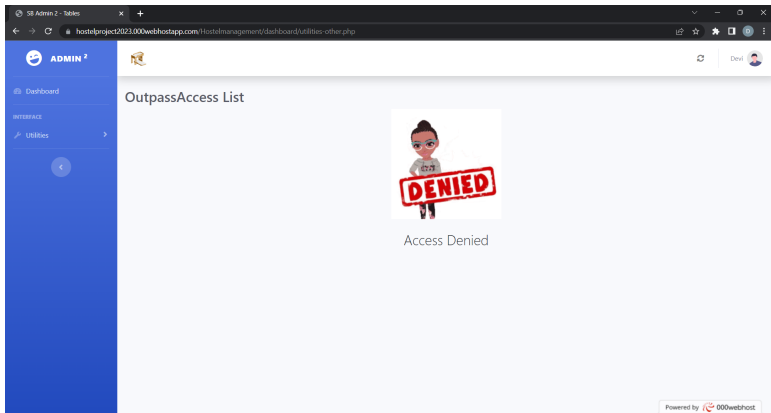
CUSTOM UTILITIES:

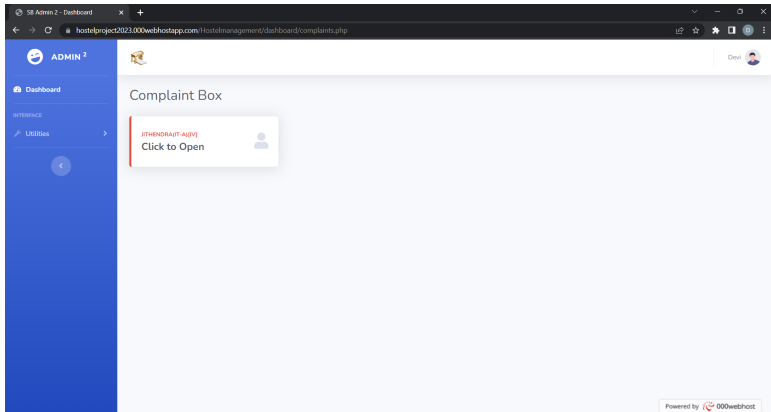
- Add Hostel
- Hostel Blocks
- Post Announcement
- Outpass
- Complain Box
- Fee Payments

Announcements Form

Access Denied

Powered by 000webhost





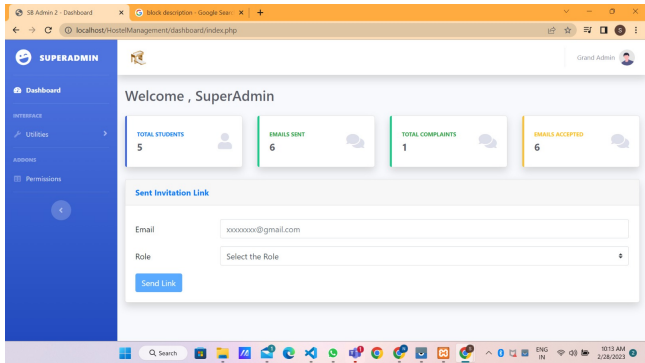
The screenshot shows a web application interface for managing fee payments. The top navigation bar includes a logo, the title "ADMIN 2", and a user profile icon labeled "Devil". The left sidebar contains links for "Dashboard" and "UTILITIES". The main content area displays a section titled "Fee payments's List" with a sub-link "Access & Permissions". Below this, there is a search bar and a table listing fee payments.

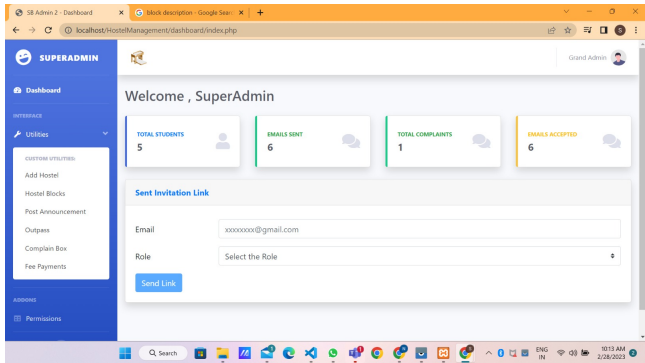
Email	Role	Actual Fee	Action
jithendra1999@gmail.com	User	63000	<button>Update Fee Structure</button>
jithendrabayavarapu3@gmail.com	User	80000	<button>Update Fee Structure</button>

Showing 1 to 2 of 2 entries

Navigation: Previous | 1 | Next

Footer: Powered by iWebhost





SB Admin 2 - Color Utilities x block description - Google Search x +

localhost/HostelManagement/dashboard/utilities-color.php

Hostel Enroll Form

[Add Hostel](#)

Enter Hostel Block Name Select Hostel Type

Hostel Start Time Hostel End Time

Mess Start Time Mess End Time

Description of Hostel Block

[Add Details](#)

Dashboard

INTERFACE

Utilities

CUSTOM UTILITIES

- Add Hostel
- Hostel Blocks
- Post Announcement
- Outpass
- Complain Box
- Fee Payments


ADDDONS

Permissions

10:13 AM 2/28/2023

Browser tabs: (no subject) - saranya1237@sasi | SB Admin 2 - Border Utilities


Address bar: <https://hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/utilities-border.php>

Page Header: SUPERADMIN | Grand Admin 

Left Sidebar:

- Dashboard
- INTERFACES
 - Utilities
- CUSTOM UTILITIES:
 - Add Hostel
 - Hostel Blocks
 - Post Announcement
 - Outpass
 - Complain Box
 - Fee Payments
- ADDONS
 - Permissions


Main Content Area:

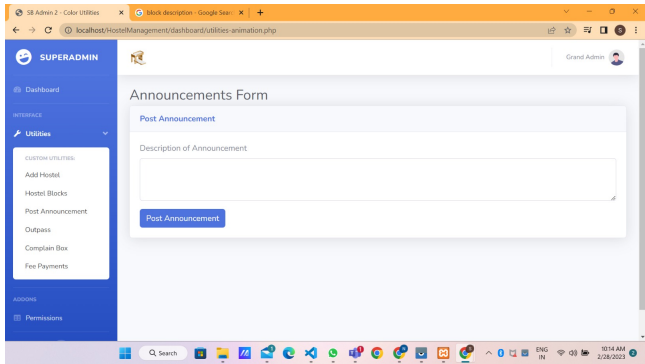
 Boy's

sasi

Total 14 of capacity

Edit Rooms

Powered by  000webhost



Browser tabs: (no subject) - saranya1237@sas... | SB Admin 2 - Dashboard

Address bar: <https://hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/complaints.php>

SUPERADMIN

Dashboard

INTERFACES

Utilities

CUSTOM UTILITIES:

- Add Hostel
- Hostel Blocks
- Post Announcement
- Outpass
- Complain Box
- Fee Payments

ADDONS

Permissions

Grand Admin

Complaint Box

JITHENDRAJIT-AJ[IV]

Click to Open

Powered by 000webhost

URL bar: <https://hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/complaints.p...>

Dashboard

INTERFACES

Utilities

ADDONS

Permissions

Fee payments's List

Access & Permissions

Show 10 entries

Search:

Email	Role	Actual Fee	Action
jithendra1999@gmail.com	User	63000	Update Fee Structure
jithendrabayavarapu3@gmail.com	User	80000	Update Fee Structure

Showing 1 to 2 of 2 entries

Previous1Next

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Hostel Management - Online L... x [no subject] - saranya1237@sasi... x SB Admin 2 - Tables

https://hostelproject2023.000webhostapp.com/Hostelmanagement/dashboard/tables.php

SUPERADMIN

Grand Admin

People's List

Access & Permissions

Show 10 entries Search:

Email	Role	Status	Action	Invitation Access	Hostel Access	Block Access
devisaranyanalla@gmail.com	Admin	Active	Edit Permissions	✓	✓	✓
haseena1247@sasi.ac.in	User	Active	Edit Permissions	✗	✗	✗
hostelmanagement548@gmail.com	Admin	In-Active	Edit Permissions	✓	✗	✓
jithendra1999@gmail.com	User	Active	Edit Permissions	✗	✗	✗
jithendrabayavarapu3@gmail.com	User	Active	Edit Permissions	✗	✗	✗
jithendrabayavarapu@gmail.com	Admin	Active	Edit Permissions	✓	✗	✓
jithendranaidu1999@gmail.com	Admin	In-Active	Edit Permissions	✓	✗	✓

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11.CONTRIBUTION OF THE CANDIDATE

Project Associate (PA)	Problem Formulation	Design	Implementation	Testing	Deployment	Project Report Writing
PA1 19K61A1237	Yes	Yes	Yes	Yes	Yes	Yes
PA2 19K61A1209	Yes	Yes	Yes	Yes	Yes	Yes
PA3 19K61A1247	Yes	Yes	Yes	Yes	Yes	Yes
PA2 19K61A1221	Yes	Yes	Yes	Yes	Yes	Yes

12.COMPARISON WITH EXISTING SYSTEM

The proposed accomadation management system application is a significant improvement over the existing system.The proposed system is more efficient,accurate and convenient.The online platform eliminates the need for maintaining the hostel activities manually.The proposed system provides an online platform for various tasks like booking rooms,fee payment,complaint raise and outpass request which makes it highly efficient and user-friendly.The proposed system saves time,effort,and resources and provides a better experience for both users and hostel management.

13.CONCLUSION

The system Proposed was used by Hostels to automate the process in hostel management and even in finding the hostel rooms by the people who wanted to stay in hostels. In this that the super admin will register their hostel in this web application, and he/she maintains the main hostel details, the admin will maintain the complaints registered by students, hostel rules, mess timings, fee details with instructions given by super admins. The user can find the rooms availability in the hostel and he can know the details of students who are sharing the room with him after registered in hostel. The user can even generate the outpass using this application without manually reaching the wardens. He/She can know the fee details and announcements in hostel through the application

14.SCOPE FOR FUTURE WORK

The hostel management system helps in automate the process happen in hostels. In future we are going to add different college hostels and private hostels to register in this webapp. So the people can even select hostels from there interest through online.

15.REFERENCES

- ▶ <http://publisher.uthm.edu.my/periodicals/index.php/aitcse-ISSN :2773-5141>
- ▶ <http://hdl.handle.net/123456789/8250>
- ▶ <https://doi.org/10.31142/ijtsrd14110>
- ▶ <https://doi.org/10.32628/CSEIT217280>

THANK YOU...