

HOSTEL MANAGEMENT SYSTEM

Hostel Management
System



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DONE BY..

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Front End : Java Swing

Back End : Java Data Base Connectivity
(JDBC), Connected by (Oracle database)

Abstract:

As the name specifies Hostel management system is the software developed for managing various activities in the hostel. For the past few years the number of educational institutions is increasing rapidly. Therefore the number of hostels is also increasing for accommodation of the students studying various institutions.

All operations done by the software are incredibly fast and robust. Every detail is stored systematically and retrieved whenever needed. This software saves time since hefty works such as adding a student, removing a student is done almost instantly.

Module description:

This project has four modules namely Manage Rooms, Add a Student, Update or Delete Students and Current Students Details. The Manage Rooms module further consists of sections like Add a Room and Update or Delete Room.

Manage Rooms -

This module performs operations like adding a new room, updating the availability status of the room and deleting a room if needed.

Add a Student -

This module gets all the necessary details of the new student to be added and saves it in the database along with the information of the room he is allocated.

This section has a drop down menu which shows all the available rooms and the preferred room is given.

Update or Delete Students -

Operations like providing another room for the student and deleting the student once their stay is over is done here.

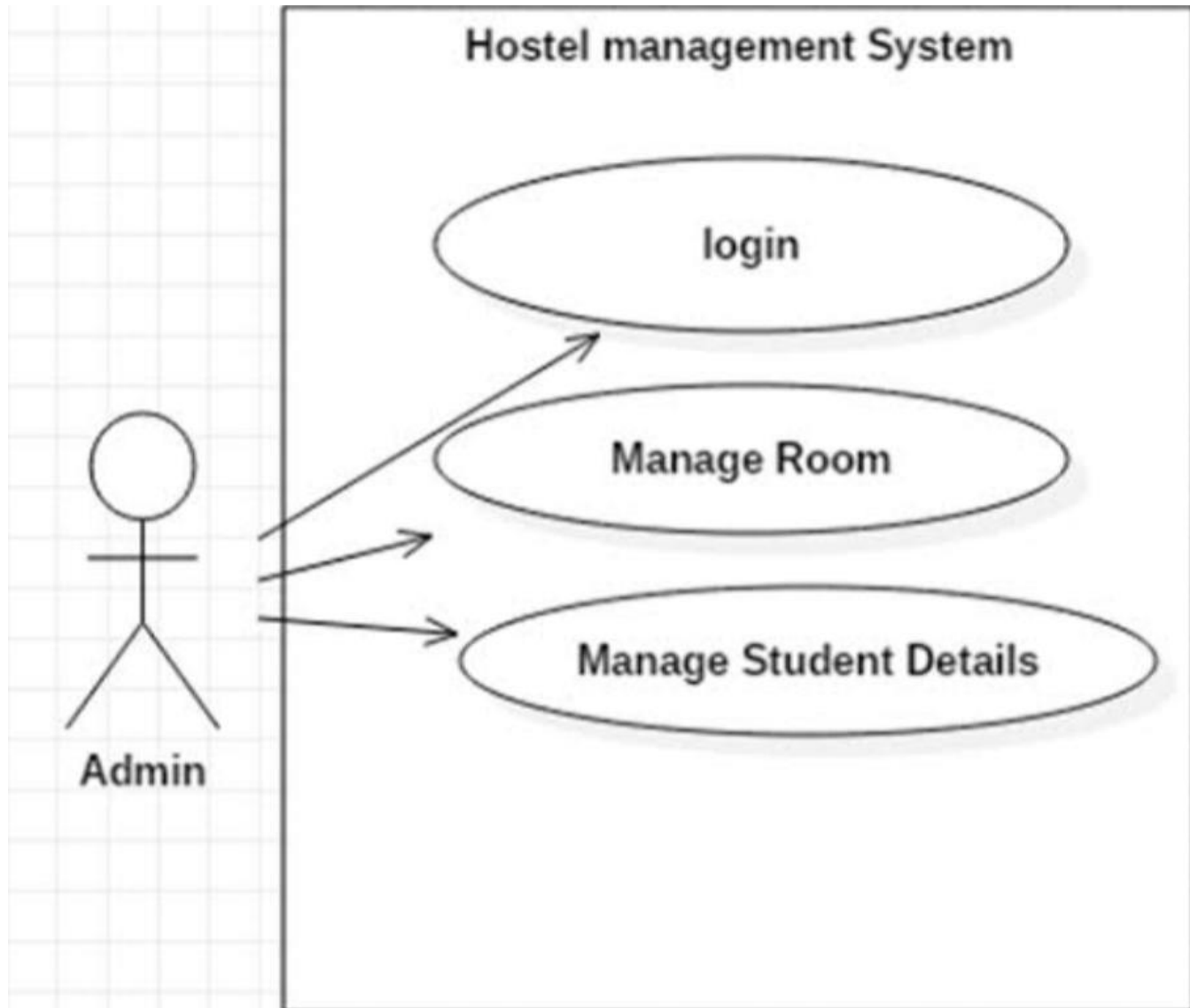


Current Student Details -

This tab shows the number of students currently staying in the hostel and a further click on a particular student will display all of his/her details.

Students vaccated-

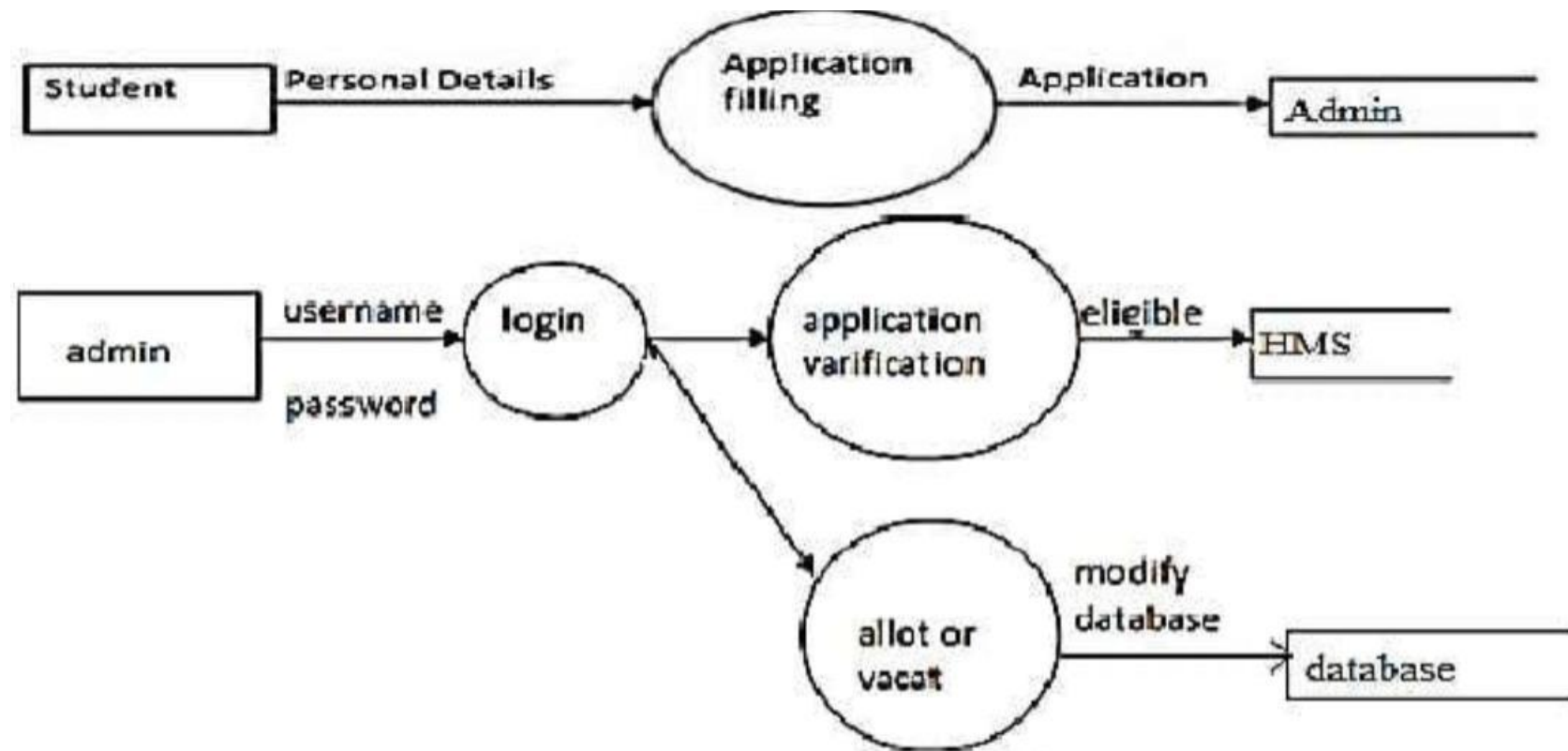
This Module shows the number of students vaccated From the hostel and their fees and details are noted



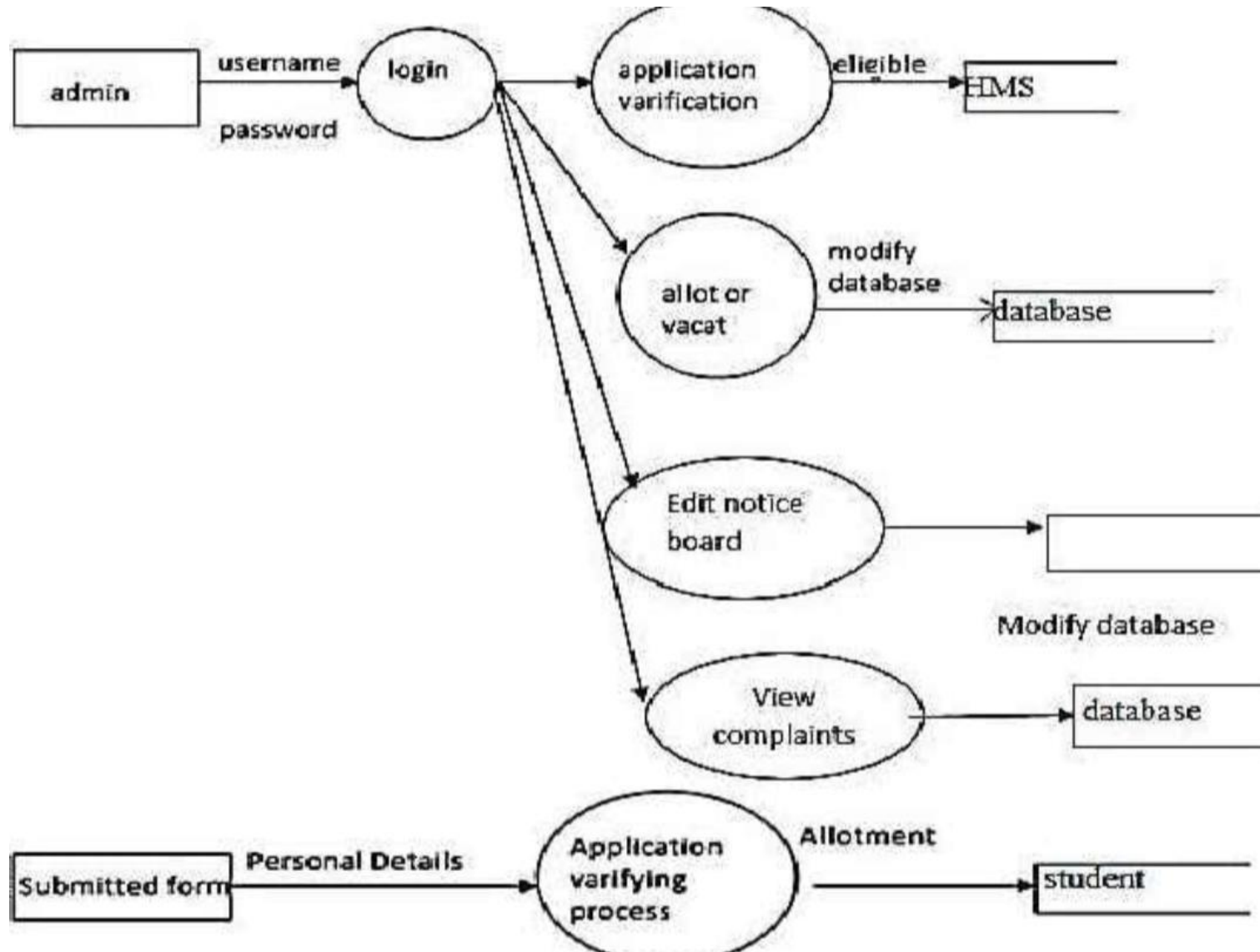
Allotment process



Student module



Admin module



Hardware specification

- * processor : Pentium 4
- * processor speed. : 2.5 GHz
- * Ram : 4GB
- * Hard Disk Drive : 1TB
- * CD-ROM Drive : Sony
- * Monitor : 17''inch
- * Keyboard. : TVS Gold
- * Mouse : Opticalmouse

Software Requirement

- * Operation system. ; Windows 10
- * Front End. ; Java
- * Back End. ; Oracle

DATABASE DESIGN:

Student database:

Room

Column Name	Data Type	Nullable	Default	Primary Key
ROOM_NO	VARCHAR2(10)	No	-	1
ACTIVE_STATUS	VARCHAR2(10)	Yes	-	-
ROOM_STATUS	VARCHAR2(10)	Yes	-	-
				1 - 3



New
Student

Column Name	Data Type	Nullable	Default	Primary Key
ROLL_NO	VARCHAR2(10)	No	-	1
EMAIL	VARCHAR2(30)	No	-	2
NAME	VARCHAR2(30)	Yes	-	-
FATHER	VARCHAR2(30)	Yes	-	-
MOTHER	VARCHAR2(30)	Yes	-	-
MOBILE	VARCHAR2(10)	Yes	-	-
ROOM_NO	VARCHAR2(10)	Yes	-	-
STATUS	VARCHAR2(10)	Yes	-	-
				1 - 8



Student

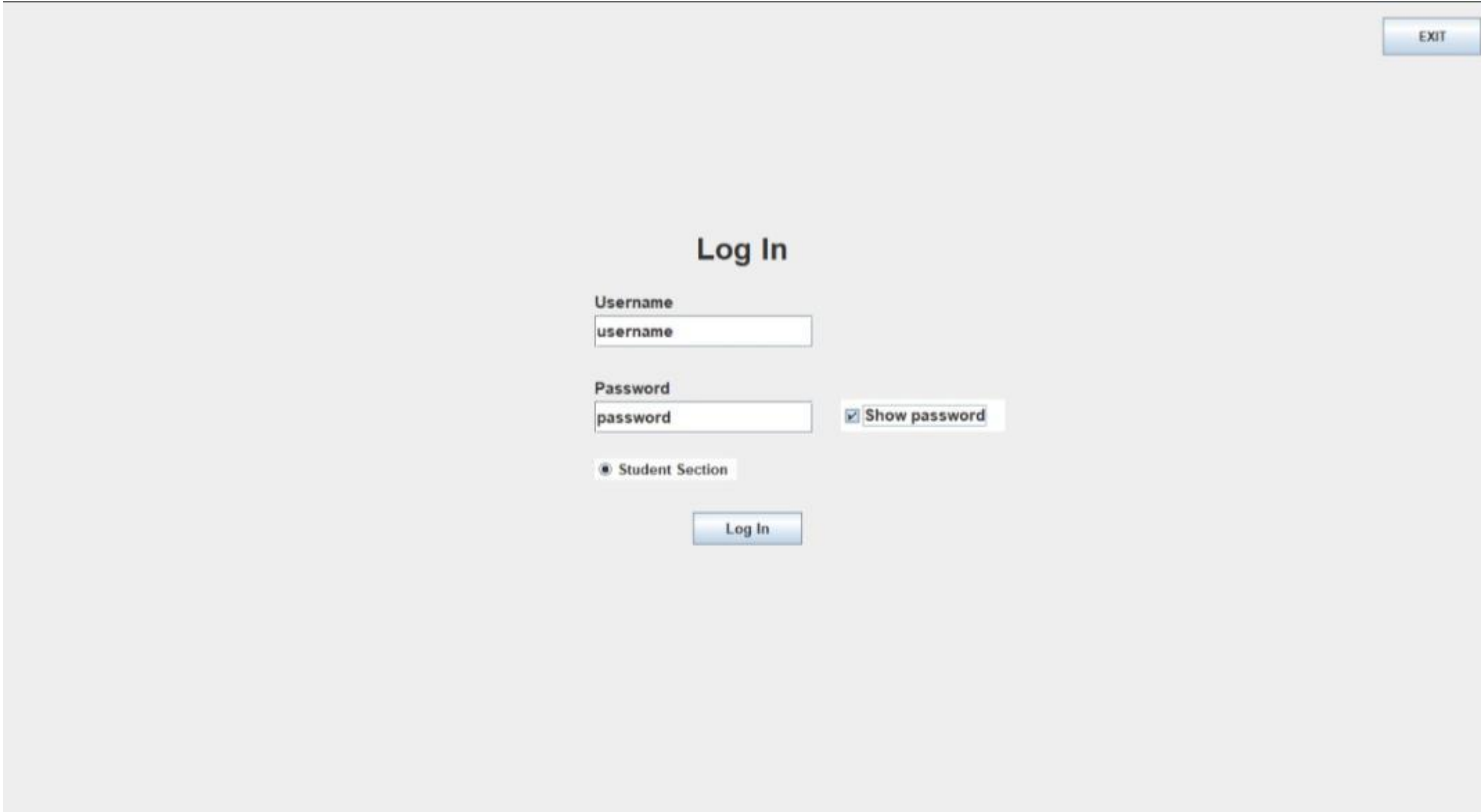
Fees

payment

Column Name	Data Type	Nullable	Default	Primary Key
ROLL_NO	VARCHAR2(10)	No	-	1
MONTH	VARCHAR2(20)	Yes	-	-
AMOUNT	VARCHAR2(10)	Yes	-	-
				1 - 3

Screenshot layout

Admin Login



The screenshot displays a web form titled "Log In" centered on a light gray background. In the top right corner of the form area, there is a small blue button labeled "EXIT". The form contains the following elements:

- Username:** A text input field with the placeholder text "username".
- Password:** A text input field with the placeholder text "password". To its right is a checkbox labeled "Show password" which is currently checked.
- Student Section:** A radio button followed by the text "Student Section".
- Log In:** A blue button located below the password field and the "Student Section" label.

Add New Room

LOGOUT

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEEES PAYMENT

FEEES DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

Add a New Room

Enter New Room Number

Select Room Status ☒ active ☐ inactive

Add

Message

The entered room is added successfully!

OK

Enter

Update Room Status ☐ active ☐ inactive

Update

Delete

View Rooms

Delete Rooms

View Rooms

LOGOUT

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEES PAYMENT

FEES DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

Room Number	Active Status	Room Status	X
102	inactive	unoccupied	
100	active	occupied	
101	active	occupied	
103	active	occupied	
104	active	occupied	
105	active	occupied	
106	active	unoccupied	
107	active	occupied	
108	active	occupied	
109	active	occupied	
110	active	occupied	
111	active	occupied	
112	active	unoccupied	
113	active	unoccupied	
114	active	unoccupied	
115	active	occupied	
116	active	unoccupied	
117	active	unoccupied	
118	active	unoccupied	
119	active	unoccupied	
120	active	unoccupied	
121	active	unoccupied	
122	active	unoccupied	

Student Details

LOGOUT

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEES PAYMENT

FEES DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

X

ROLL NO

25

NAME

Ganesh kumar

GENDER

☒ Male ☐ Female

FATHER NAME

Velmurugan

MOTHER NAME

Kavitha

MOBILE NO

8637641963

PARENT MOBILE NO

9003988298

EMAIL

ganeshvkavi@gmail.com

ROOM NO

106

SAVE

CLEAR

Update Or Delete Students

LOGOUT

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEE PAYMENT

FEE DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

X

ROLL NO

25

SEARCH

NAME

Ganesh Kumar

GENDER

☒ Male ☐ Female

FATHER NAME

Velmurugan

MOTHER NAME

Kavitha

MOBILE NO

8637641963

PARENT MOBILE NO

9443088664

EMAIL

ganeshvkavi@gmail.com

ROOM NO

100

CHANGE ROOM

106

106

112

113

114

116

117

118

119

Send Updated details via Gmail

☒ Click here to select rooms

CLEAR

OK

Fees Details

LOGOUT

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEEs PAYMENT

FEEs DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

Roll Number	Month	Amount	X
1	January	4000	
2	January	2000	
39	January	1000	
22	January	2000	
25	January	2000	
26	January	2000	
45	July	2000	
15	March	3000	
16	January	3000	
7	January	5000	
9	January	3000	

Send Information

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEEES PAYMENT

FEEES DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

LOGOUT

X

Send Information to All

Enter Information

Due to feast , tommorrow's lunch will be a non veg

Send

Message send to Mail

MENU

MANAGE ROOMS

VIEW ROOMS

NEW STUDENT

UPDATE OR DELETE STUDENT

FEEES PAYMENT

FEEES DETAILS

STUDENT LIVING

VACATED STUDENTS

SEND ANNOUNCEMENT

LOGOUT

X

Send Information to All

Enter Information

Due to feast , tommorrow's lunch will be a non veg

Message

i

Message sent successfully

OK

Conclusion:

- ▶ This project is very helpful for hostel administrators to provide the correct room for the students and to keep track of their fees details and to send common announcement for the students about their hostel updates .Thus the above project is more efficient and robust ,so we hope it will be very usefull for managing the student details by reducing the time

Bibliography

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- ▶ Effective Java. - Joshua Bloch
- ▶ Spring in action. - Craig walls & Ryan abreidenbach
- ▶ Test Driven TDD. - Lasse Koskela
- ▶ Head First Design pattern - Eric Freeman

Thank You!

