HOSTEL MANAGEMENT SYSTEM

Ojaswi Kumar(15BCE0030), Sparsh Goel(15BCE0182)| Ramanathan L. | SCOPE
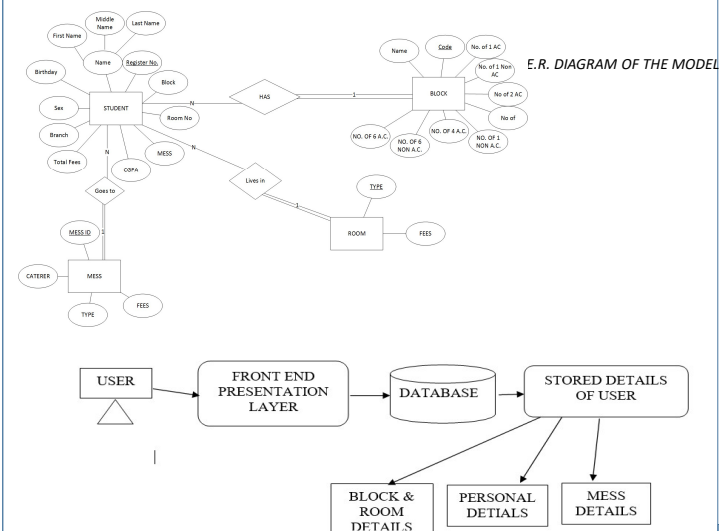
Motivation/ Introduction

Every educational institution focuses on establishing good standards that contribute towards optimized hostel management system for their students. The Hostel Management System is one such system that focuses on effective utilization of resources towards hostel and mess management thereby catering to the needs of students. Hostel software module includes many features like fee collection, room allotment, room management as categorization of rooms on the basis of their CGPA.

SCOPE of the Project

1. Allocating the rooms of students.

2. Viewing the details of blocks and mess of students by the supervisors.

3. Registering and updating the mess for the students

4. Calculation of fees for the student.

5. Getting complete details of the students.

6. Getting complete details of the staff members.

Methodology

The hostel mangement system is divided into two parts – staff and student. Our Hostel Management system provides the facility of allocation of rooms to students and to choose their roommates. It also enables the student his/her details and also the details of his/her roommates. The admin has the option to view the details of any student of any block. He can also view the details of blocks and mess. The students can also update his/her mess as per his/her requirement. It also calculates the total fees of the students i.e. hostel fees+ mess fees. The main page of the application asks the student/staff to login to see his/her details. They can also change their password.

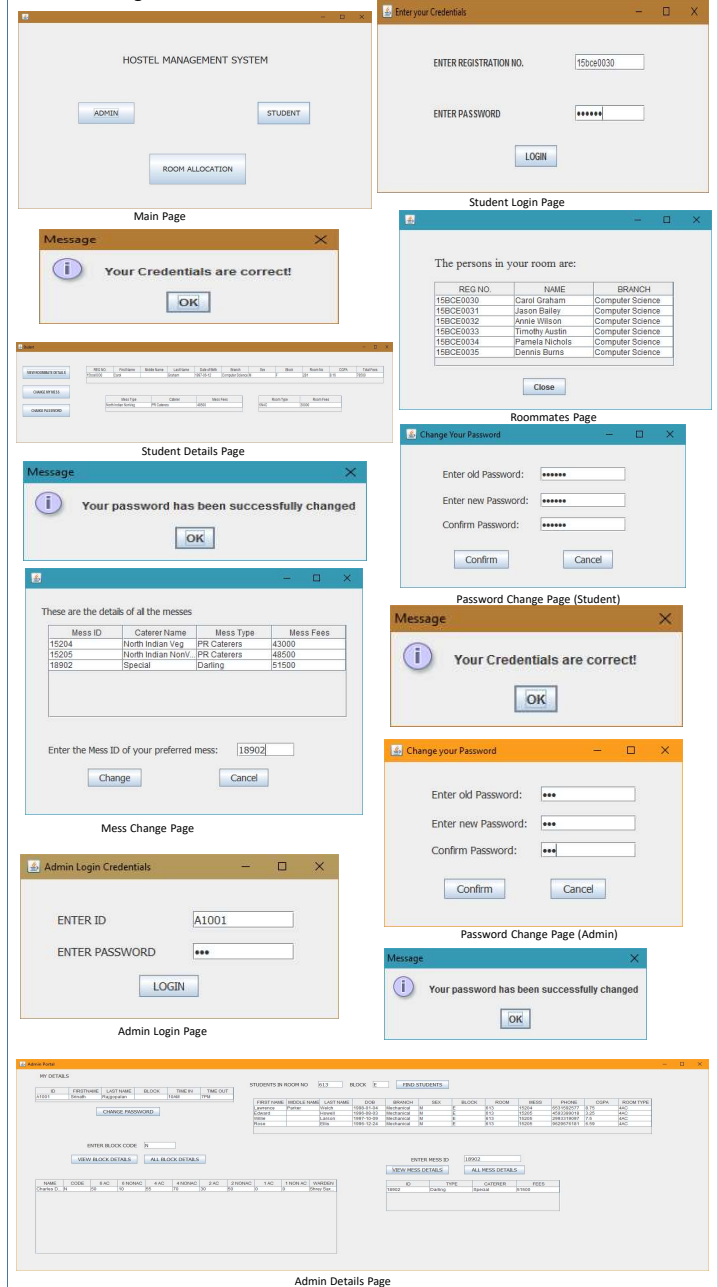*E.R. DIAGRAM OF THE MODEL*

ARCHITECTURE OF THE MODEL

In our proposed model of Database we are using java programming language using NetBeans software. This is our Frontend part. In the backend we have used MySQL software and wrote structured query language to create a Database. It is used primarily as a KEY STORE OF VALUE when the data are distributed among a large number of cases logical. We have connected our frontend and backend using JDBC drivers. The visitors having Windows operating system installed can access the data and this accessibility is provided by Frontend part.

The user logged in using his username and password. Now he can see his personal details in the GUI, and he can opt for the required changes.

Results

The results and the output of the application can be seen by the following test cases and images.

Main Page

Student Login Page

Roommates Page

Student Details Page

Password Change Page (Student)

Mess Change Page

Password Change Page (Admin)

Admin Login Page

Admin Details Page

Conclusion/ Summary

This hostel management system provides the facility of allocation of rooms to the students and also changing their respective mess as seen by the test cases. The user (student/staff) is also able to change his password and view his/her details. The admin can view student details according to his/her room and can also view the block and mess details. Overall this is user friendly application which serves all the purpose of a hostel management system.

The future scope of this project is that we can increase the number of data entries and the operations and the data manipulation commands. In future if we have the chance we can improve and expand our project which could be of use to the university.

Contact Details

sparsh.goel2015@vit.ac.in , ojaswi.kumar2015@vit.ac.in

Acknowledgments/ References

https://netbeans.org/competition/win-with-netbeans/mysql-client.html#db02
http://www.tutorialspoint.com/jdbc/jdbc-create-tables.htm
http://www.codejava.net/java-se/jdbc