DBMS PROJECT REPORT : MESS MANAGEMENT SYSTEM

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INTRODUCTION

Every new semester we stand in long queues for hours just to register for the messes. As difficult it is for us to stand in the queues, it is difficult for even the people sitting behind the counters doing the job manually on papers sitting in hostel offices with sweat all over their faces. Mess Management System is a system which makes the life of students as well as the hostel office employees easier by making everything computerised. Now the students will be able to register for their desired messes just on a click of the mouse button and it will greatly reduce the amount of work the hostel authorities have to do.

REQUIREMENT SPECIFICATIONS AND ANALYSIS

- The vary purpose of this system, which triggered the idea of developing it in the first place, is the Online Mess Registration. Every student will be provided with an account where they can login and register for desired messes and check the status of their application. This feature will completely eliminate the problem of the rush in the hostel office during start of each semester. The database will contain basic information about every student like Name, branch, Roll no, Mess roll no and the mess they opted for. It will also have the information about the messes such as mess capacity, type of mess (government/private), region of mess, person in charge, mess contact no. etc.
- Often during the selection of messes, students are confused as different regional messes have different menu. Hence, the detailed menu for each mess for breakfast, lunch and dinner for all the 7 days of the week will be displayed. Students can see the menu beforehand which will help them to decide the mess they want to opt for. Once applied for a particular mess and approved, Students can suggest changes to the menu if they want something different.
- As we know that feedbacks are important for any organisation to improve upon their current status, this system will also be equipped

with a feedback section where the students can give feedback about the quality of food being provided so as to help in the improvement of the services provided by the messes. Having a proper feedback section will make sure that the students are satisfied with the services provided to them. Thus, the attendance in the mess will be high throughout the semester.

- There are times when some students go home during weekends or a series of long festive holidays, in those cases the mess staff doesn't have the idea of how many are leaving in order to prepare food only for those staying in the hostels. This is a serious issue as it results in a lot of wastage of food. Also it is not practical to charge fees from the students when they are not eating in the messes. Hence, students will have an option to take leave from the messes for a specified time and the money for that period of time will be refunded at the end of the semester. Thus, wastage of food can be minimised and also the students will be satisfied with the refund.

- The private messes will also have an option to book a particular meal online so that they will have a count of people turning up in order to prepare food accordingly. The students will just have to show their payment summary in the mess for confirmation. This will also prevent an additional queue in the mess.

- The Homepage of the system will contain timelines for any new announcements, or the dates for the Grand Dinner for respective messes. For every mess the menu for that day will be displayed.

- The administrators of the respective messes will be able to change the mess menu from time to time. They will also be able to update their mess details like contact no, no. of staffs employed, post any announcements, set the dates for grand dinner etc.

PLATFORM TO BE USED

The database used for the project implementation is MySQL. Since it is supposed to be an online system, the tools which we are planning to use for the front-end (User interface) are HTML/CSS and for the back-end Django/Python. This Mess management system will be a web app which will be capable of running on any browser and on any operating system.

Entity-Relationship diagram:

- **Student** (entity) with attributes: Mess Roll No (key), Roll No (key), Name, Branch, Block No
- **Mess** (entity) with attributes: Mess Block No (key), Mess Type(Pvt/Govt), Mess Region
- **Mess Administrator** (entity) with attributes: Name, Contact Info
- **Belongs to** (relationship) between Student and Mess
- **Manages** (relationship) between Mess and Mess Administrator