

Institute Mess Management System

November 23, 2016

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1 Goal

The goal of the project is to make a webapp which helps in maintaining a centralized mess system across all hostels in a single database. This can be used by the students to view daily menus, check their mess balances and give reviews of the food and get notifications of the announcements made.

2 Functionality and Features

2.1 Account Creation

Students can directly access to their profile using their ldap account. This reduces the pain of creating account for students

Mess Authorities are given special login details and passwords by admin during account creation.

2.2 Students

- When Students login for the first time they register their roll number, name, hostel, mess account number, room number and contact number. They can edit these later if they wish to, except for roll number, mess account number and hostel(these can only be registered once).
- They can go through notifications posted by mess authority of their hostel organised by time
- They can go through daily menu which shows menu for a particular chosen mealtype(i.e. breakfast, lunch, tiffin, dinner), cost and rating across all hostels
- They can check weekly menu of any hostel and plan where to eat
- They can rate the food provided by the hostel and they can complain about any issues which will be reviewed by the mess authority
- They can compare the ratings of other hostels with their own to decide where to eat.

- They can have a look at the wastage statistics of different hostels.
- On mess holidays students will be notified beforehand so that they can make alternate plans.
- Students planning to go on a vacation can "Opt Holiday" beforehand so that money is not cut from their account.
- They can avail extras (special food for which extra money is paid) directly while getting tokens and money is directly deducted from their mess account
- They can view their mess balances any time and plan accordingly on taking extras.
- Along with the food menu, student also gets to know the statistics of his nutrition intake.

2.3 Mess Authorities

- When authorities login for the first time they register their id, name, hostel and contact number. They can edit these later if they wish to, except for id(which can only be registered once).
- They can post notifications for students of the hostel and go through previously posted notifications
- They can go through mess menu for the week and also make changes to it by just clicking any cell they want to edit in menu table
- They will be shown statistics on how much quantity to prepare for future meals based on number of students opting to eat in their hostel. They can make preparations accordingly to reduce wastage
- They can fill wastage statistics which will be showed to students of the hostel in the form of bar diagram
- They can add a new food item to the database just by a button click and filling the details of the food item in overlay produced

- They can change the cost of of particular mealtype(i.e. breakfast, lunch, tiffin, dinner) by just clicking a button on header and editing details in overlay produced.
- Students get their tokens for "extras" from the hostel they belong to or from the hostel they temporarily opted to, their by removing the difficulties of conventional mess card system. Cheating can be avoided to a great extent which leads to profit for the mess authority.

2.4 Future Work and Scope

- If we had more time we could have made a polling feature which would be conducted by mess authority, where students choose food items for mess menu
- We could have made review system more robust where linking to recent reviews and voting the reviews can be made
- We could have made peer to peer messaging feature where students and mess authority can chat and clarify any issues
- This application centralises the mess management across all hostels, and can be developed further and used for hostels in our Institute, there by diminishing problems faced by students and mess authorities in our present mess system