INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

CS699 Project : Mess Management system

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ABSTRACT

In this project our main aim is to develop a mess management system which eases the process of making and approving rebate or overhead request. It also helps the mess staff to create bills at the end of the month.

Key words: mess management, rebate and overhead request, monthlty bills.

CONTENTS

1 INTRODUCTION

In this project, we implemented a webapp using python with django framework. This webapp facilitates the process of applying for rebates and overhead. It provides an interface for students to apply for rebates and overhead. The mess worker or mess manager will be given a separate role in the app through which they can approve those requests.

There will be three type of users:

1. Student : A Student can request for rebate and overhead through forms available in the pages accessible to him/her. He/She can also see the history of requests by him/her.

2. Mess Worker : Mess worker here have access to his separate pages using which he can approve overhead requests as these requests are usually dealt by mess worker himself. We also provide the functionality of changing the prices of the meal.

3. Mess Manager : Mess manager approves the rebate requests as done so in the current scenario. Rebate requests needs to be analyzed before approving that's why it requires mess manager to do that.

At the end of every month bills need to generated for which a lot of paperwork is needed. Since the app keeps track of overheads and rebates of every student, it makes the process of generating the monthly bills really easy.

2 MOTIVATION

The following reasons were mostly important for us choosing and working on this project:

- The current process of applying for rebates is not very clear and hence most of the students just don't apply for it which in turn wastes food,money etc.
- If the mess workers know the number of students that are going to miss the meal, it will be easy for them to estimate the amount of food to be made.
- The record of students are stored on a register, one page for each student and most of the time these pages go blank at the end of the month. This incurs a lot of wastage of paper which can be easily avoided.
- The effort for creating the mess bills of all the students at the end of the month is a tedious task which can very well be made easy using the app.Less efforts and better results for every one

3 Database Tables

- Student: To store the information about the student. It will contain the attributes like:
  Roll No.
  Mess Card No.
  Room No.
  Name

- Rebate request: To store the rebate requests made by the students in the rebate re table. Attributes will be like:
  Roll No.
  From(date)
  To(date)

- overhead request: To store the info of all the overhead request made by students Attributes will be like:
  Roll No.
  meal
  No. of overheads

- Meals: To store the information of the meals to be catered at different times of the day. Attributes will be like:
  Meal type
  price
  type(veg, non-veg)

4 USER MANUAL

User Manual for different users:

1. Student: The following guidelines can help students to use this app:

   - Contact mess manager so that he can add you the app. Since this is done once a year under manager's supervision. So no requirement of sign up page
   - Go to the links for requests provided in the homepage of student 'user' and apply for rebate or overhead by filling the form.
   - Can see previous requests made by him/her on the homepage of student type user.

2. Mess Worker: These guidelines as useful for mess worker:

   - Can see overhead requests of the students and approve them on his homepage.
   - Can access the meals page from link provided on his homepage to change prices of the meals.

3. Mess Manager:The following guidelines can help Mess manager to use this app:

   - Listen to students and add or delete them from the database
   - Can see the rebate requests on his homepage and approve or reject them according to his convenience.
   - can add mess worker into the database using the admin console provided by django framework.

5 FUTURE SCOPE

- As we can see that the app really is very practical and can be readily implemented in a Standard mess.

- There still are a lot of functionalities that can be implemented here like feature of special meal, dividing students on the basis of type of food they eat etc.

- The app can also be implemented on a large scale by adding a little more features and by making it a bit more flexible.