

# Mess Management System

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## Abstract

This document outlines the use cases for each of the actors separately. The Students have a different set of use cases (which are related to availing the mess facilities) than the Mess Admin (which are related to managing the various aspects of the mess such as special orders, student mess option, menu updates, etc.).

## 1 Student Use Cases

A brief description of all the Student Use Cases:

- **Login:** The student logs into the system so that he can carry on with other options like choosing mess option or add on item service. The student has to enter his ID number and password which will be then compared with the database entries to validate his login credentials.
- **Change Password:** The student changes the current account password. To do this he has to retype old password so that his identity can be confirmed by matching it with database entries and after it has been validated, he has to enter a new password, which will then be updated in the database
- **Mark attendance** The student mark the option whether he/she wants to take lunch, dinner or breakfast. His choice is then sent to the database where it is updated. This option is available for all dates.
- **View Menu:** The student gets to view the menu for the week. He can also choose to view a particular menu like Monday's lunch menu or the Night mess menu. The query from the student is sent to the database where the data is read and is sent back to the student to be displayed on the screen.
- **View Statistics:** The student's query for Statistics is sent to the database on the server where the relevant data is read and sent back to the student. The statistics include the food consumption and can be viewed in a daily, weekly or monthly format and shows what percent of people ate and how much food was consumed and wasted.
- **Add on items:** The student can view the mess menu and choose items from it to preorder online. This saves a lot of time and is more efficient

than standing in a queue. The student's order is sent to the database where it is processed by the system. The student can also view the current order status and collect it when it is ready.

- **Scan QR Code:** When the student goes to the mess, he has to scan his QR code. The code scanned will be looked up in the database to check if the student has registered for that mess and if he has already eaten or not. This will be reset after each meal. A failure or success message will be displayed based on the validation result.
- **Logout:** The student logs out of the system so that nobody else can modify his mess option or book orders from his account.

## 2 Mess Admin use cases

A brief description of the Mess Admin Use Cases:

- **Login:** The administrator has to login to the system so that he can carry on with the other activities such as updating the mess menu, approving special orders, viewing and uploading statistics, viewing orders etc. The data entered will be matched with the fields in the database to validate the admin's credentials.
- **Change Password:** The admin changes the current account password. To do this he has to retype old password so that his identity can be confirmed by matching it with database entries and after it has been validated, he has to enter a new password, which will then be updated in the database.
- **Update menu:** The administrator can update the menu for any meal for any day of the week or the might mess menu by selecting new food items to add to the menu or by removing unpopular food items. The changes after the updation are saved in the database so that the students can see the updated menu.
- **add on items:** The admin can check the number of orders received for the mess and also pass along that to the kitchen staff so that they can prepare the meals according to those specifications. The admin can then update the order status in the database to completed so that the student can come and pick it up after which its status will be delivered
- **View Feedback:** The mess admin can view the feedback submitted by the students. The database will be queried for feedback and complaints and the admin can check all these forms and take the required action on them. He can also update the feedback status as read or the complaint status as per its current state.
- **Reset system:** The mess admin can trigger a hard reset of the system where the list of people who have eaten their meal is erased. This will typically occur automatically after every meal and so this hard reset will seldom be used.

- **Logout:**The mess admin can log out safely while he/she is not using the software in order to avoid any misuse.