

**GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECHNOLOGY**

**Databases Project Report**

**Submitted To:**

**Miss Aqsa Khan**

**Submitted By:**

**Syed Salman Shah**

**Muhammad Asim Khan**

**Muhammad Adil Shahid**

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**Faculty:**

**FCSE**

**GIKI Central Mess Online Student Database and Check-In/Check-Out System**

**Introduction:**

This is a Mess Management System designed for the administration and students of GIK Institute. The system is designed for better interaction between management and students. The system will reduce the human workload of both the staff and the students because the students will no longer have to go to mess to manually check-in and check-out. Also, the staff will not have to manually check the data of the students who check-in or check-out each day. It also provides a better data management than the conventional methods. Mess Management System handles all the requirements for easy Mess Management. This software will help the Mess to structuralize the activities and maintain data transparency where needed and properly store data for regular operations and future analysis.

**Modules:**

Mess Management System has following core modules:

**Administrator:**

Administration has a username and a password to login. Admin has the privileges to view and edit data of all the students The admin will enter the credentials for every student that include student’s username and a unique password, registration number, hostel, room number and assigned hall. Admin module has the following functionalities:

* Add a Student
  + In this module, admin will enter the details of the students such as name, reg number, email, password, hostel, room and the assigned hall.
* View all the students
* In this module, the admin can view all the students present in the database
* Delete a Student
* Update Mess Menu
* See a student’s who have Checked-In
* See a student’s who have Checked-Out
* View complains and suggestions of the students
* Add Students monthly bill

**Student:**

Each student will have a has a username and a password provided by the administration to login. Student module has the following functionalities:

* Check-in
* Check-out
* See Mess Menu
* File a Complaint or Suggestion
* See monthly mess bill

**Mess Staff:**

Staff member will have a has a username and a password provided by the administration to login. Mess Staff module has the following functionalities:

* See Mess Menu
* View students Complaint or Suggestion
* View all the students
* View Checked-In Students
* View Checked-Out Students

**Languages Used:**

* PHP
* MySQL
* HTML & CSS
* Bootstrap

**Entity-Relationship Diagram:**

**Relationships:**

* The entity of admin relationship with mess staff is 1:N or one to many. As an attribute like password for admin can also be used for mess staff when they are hired.
* The student and the mess bill has a M:N relationship as bill can only be generated by the students check in-out dates and so student-Messbill combination is necessary.
* Student and studentfeedback have a 1:N relation as Name entity is in both migrated to feedback entity as it is required.

**Enhanced ER Diagram:**

**Normalization:**