

Object-Oriented Programming and Design (CSE600A-ECE600A)

Project Statement: FMS IIITD

In this project you are asked to design and implement a Facility Management System (FMS) for IIITD, an improved version of our college's current FMS. Your task is to create a high quality software by implementing the advanced OOP concepts.

INTRODUCTION:

This will be an automated facility management system where task will be automatically assigned to the worker. This portal provides various services to the resident of IIITD like Electrical, housekeeping, horticulture, and work done by carpenter and mason, and others. Main functionality of this portal to provide a platform for booking complaint for repair, performing maintenance or upgradation activities, keeping track record of each employee.

User using the system are Students, FMS Employee and FMS Administrator. There are employee for each type of service like electrician to do electrical work, sweepers for housekeeping, gardeners, carpenter and mason. This will be a text based system. All complaints and facility management will be done through command.

FOR CSE students: You have to make a Facebook based system. For this you have create a FMS Facebook page. On that page users can communicate using Facebook post/messages where they will type the command in specific format and further communication (like request for feedback, etc.) regarding that complaint/information will be posted in the reply of that post/message.

FOR ECE students: You have to make console based system only. Bonus will be given if developed Facebook based system.

Format of the command should be mentioned in the Project Report with proper guidelines. You are allowed to make necessary additions and/or changes to the requirements with prior written approval from the professor or the TA.

USERS:

- Student
- Employee
- Administrator

FMS Functions:

- Registration: Each employee and student have to register themselves on the system. Administrator of the Facebook page will be the administrator of this system. All details

like userid, name, type (employee/student), type of profession (if he is an employee), and all other relevant details are taken at the time of registration.

- Complaint/request for Repair: Student can complaint about a specific service provided or request for repair. User will mention location, type of service needed, and all other relevant details.
- Assigning Task: For complaint and request for repair, system will automatically assign an employee of specific profession as requested by the user to that complaint. After completion of the task, employee will tell the system about status of the job done and student will be asked for confirmation and feedback. The task has to be completed in 24 hours deadline. Count of task completed and task not completed in time/ bad feedback for each employee will be maintained. If number of task completed is 10 less than the other then that employee is reported to the adminis