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Mini Project Proposal for DBMS Lab :

Integrated Assignment/ Quiz schedule Management System

The objective is to make a database application to serve the following users :
(Use cases specific to users specified here)

1) Instructors of a course :

- Instructors would be able to view the calendar of the students taking courses under them, to see the deadlines and difficulty ratings of the assignments given in other courses (by the professors & students - both) of their students and give their assignments and set deadlines and class test dates accordingly.
- Instructors would be able to give the difficulty rating to the assignments while uploading.
- Instructors would be able to generate statistics regarding the difficulty rating given to the assignments by their students and the marks obtained by the students

2) Students of an institute :

- Students would be able to see the assignment deadlines of the courses in the current semester in the form of a calendar.
- Students would be able to give difficulty rating to the assignments already submitted.
- Students would be able to view statistics of the course from previous semesters regarding the difficulty rating, grades, etc. This feature would be useful to the students of the next batch – to decide upon the right combination of electives / breadth.

Scope of Application

- It could be merged with ERP system to obtain the information of students and instructors regarding registration directly. Presently, we propose creating a form to enter the information for development phase.

- Students would be able to add other reminders (only visible to them) to the calendar. This could be done by integrating with the google calendar API to get all the personal reminders of the users and display them all together with the academics – related dates in the same interface. This addition would NOT required creation of a new table. The “stu_assign” relation could be used to handle these. Or, rather, we could avoid the storage of the personal reminders altogether. They would be ferched to the instance of the mobile app and would remain in the concerned device alone

We are planning to code the project in Python and use either MySQL or Oracle as back-end database, as per the need.