

Project Proposal of Group G10

1. Leave Management System

Whenever an employee decides to take a leave, first of all he starts searching the records of previous leaves he or she has taken in the past. Generally, they do not find the exact data they were searching for. So in a situation of helplessness they run to the administrative department and disturb the busy man working there.

This module is a basic solution to this general problem. The website would allow employees to take leaves, view their leave histories and also the remaining leaves of each kind. This would help employees to keep track of their leaves and they would be able to plan their holidays in a much better and systematic way. The entire process will be menu driven, thus easing the work of the employee. There will be options for extending the period of leave and reducing the period of leave depending on the time of approach by the employee. The system will save every alteration done in the leave duration by the employee after applying the very first time for a leave. This would help in determining how much uncertain a particular employee remains regarding his or her leave planning. This would help a lot in studying the employees. It would help a lot while granting extra ordinary leaves to the employees. The data will be stored in the database in such a way which would allow analysts to study the behavioral pattern of leaves taken by different individuals under different circumstances. Some statistics could also be generated in order to get a clear view of the statistics.

Functional Requirements:

- Take a New Leave
- Extend an Ongoing Leave
- Reduce an Ongoing Leave
- View Remaining Leaves of each kind
- View leaves that can be taken on a selected date
- View Leave History

2. Attendance Management System

Taking an attendance is not as easy as maintaining the attendance. Most of the faculties take attendance on a sheet of paper. Later on they fill it on a proper sheet and then compute the percentage attendance. This is a pretty cumbersome job. Moreover, it is not easy to depict the percentage attendance just by looking at the attendances. So, it is not easy to pick the defaulters and the ones with marginal attendances. Students also remain unclear about their attendance.

Keeping a centralized database for the attendance is the key to this problem. This would enable everybody to assess their attendance at their convenience and would clear the situation of uncertainty. Faculty would have to add an attendance for every class of the course he or she

takes using the attendance tab after logging into his account in the portal. Starting time of the class, ending time of the class and time of taking attendance would also be filled by the faculty. This would help in analyzing the attendance statistics like what is the difference between the attendances of the same course held at different times and many more statistics.

Functional Requirements for Faculties:

- Add a new attendance for a course
- Modify an existing attendance of a course
- View attendance history of all students for a course

Functional Requirements for Students:

- View attendance history of a course

3. Grading System

Most of the students often ask a general question that why they are given access to their marks only for a short period of time during registration for the next semester. Not only this, the aforementioned page contains only the grades in the respective courses at the end of the semester and not a detailed version of the performance throughout the semester.

This module is dedicated to eliminate any such problems in the future. The faculties would have to upload the marks of the students enrolled in their courses for every exam, quiz, lab and assignment along with the date and time of exam into the portal. Students can see their marks and average marks of all the quizzes, labs, exams and assignments for each of the course they have taken by logging into their account. For this module also, the database tables will be such that they can be used by analysts later on for studying patterns in the marks scored by students in different examinations.

Functional Requirements for Faculties:

- Add a new exam, lab, quiz or assignment for a course
- Assign weightage and maximum marks to each of the exam
- View marks of all students for a course
- Modify an existing record of marks for a class

Functional Requirements for Students:

- View marks of a course

4. Resource Sharing

Many a times, students browse a dozen of pages through the web just in order to find a file that can relate to their courses. It does take quite a time to find a good study material on the web. Once they have found it, they are pretty generous to mail it to all other students who may require it. Even though it was a kind effort but a lot of server space gets used up by doing this.

Sometimes faculties also mail heavy attachments to a decent number of students time to time regarding their course. It is definitely not an efficient way of working.

This module would allow file sharing to its users. The users can upload files which they find useful for various courses. While uploading, the uploader would be required to select all the courses for which his or her file is useful. The uploader will also be required to fill a text description about his or her file. This text description would help the ones who need those files. Any person willing to access some file can browse through the uploaded documents and can also download them. The users can also rate the files on a scale of ten which would help other users later on.

Functional Requirements:

- Add a new file corresponding to a course(s)
- Browse for a file

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