Problem Statement for Student Evaluation System

The software to be designed will be used to generate term work for a student in an automated manner. This System is designed in the view of Engineering Colleges. The user will be an admin or a faculty member. Login credentials will be generated by the admin and provided to faculty members in advance. The system will use a web browser and all the operations will be performed over it.

The Administrator will enter all the prerequisite data in order to make the system functional. The admin will perform following tasks:

1. Add students.
2. Add all the faculty members.
3. Add assignment list for all laboratory subjects.
4. Add overall attendance at the end of the semester.
5. Mapping of a teacher with class and subject.
6. Mapping of a teacher with a batch and lab subject.

Once teachers are added, their login credentials will be automatically generated.

As the admin has a lot of rigorous tasks, in order to ease it, he will just simply upload the excel sheets and word document files instead of entering all the details manually.
The upload format for files will be as follows:

1. Excel (.xls, .xlsx)   - Students, Faculty members, Overall Attendance
2. Document (.doc, .docx)   - Assignment List for laboratory subjects

Once the administrator does all the above-mentioned tasks, faculty members can log-in to the system with their login credentials. By logging in to the system, they can perform the following tasks:

1. Add unit test marks (both unit test 1 and unit test 2.
2. Add the laboratory assignment marks for the subjects they teach (of the particular batch).
3. At the end of the semester, the teacher will generate the report which will display the term work marks based upon all the performance parameters. The marks will be displayed in out of 25 or out of 50 marks based upon the weightage of the subject.
4. Once the term-work marks are generated, the teacher can choose to export the displayed details, i.e all the term work marks of all students into an excel sheet.

System Diagram for the Student Evaluation System

1. Adding Teachers, subject, batches, class
2. Assign Student To Class
3. Lab Experiment List upload
4. Mapping Subject-Class-Teacher
5. Mapping Lab-Batch-Teacher
6. Adding Final Attendance

1. Grade Lab assignments
2. Insert Unit Test maks(UT1 and UT2)
3. Generate Termwork

Admin

Staff