ANURAG MANAGEMENT SYSTEM

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Abstract : ANURAG MANAGEMENT SYSTEM (AMS) is a dashboard-style web application that shows information about student attendance, midpoint grades, assignment grades, and other metrics. This initiative aims to assist instructors or students in understanding and managing the specifics of their students' attendance and grades. It is a web-based, automated system that may be used to gather attendance data and grade information for each student as well as store lists of students who have registered in a systematic manner. It is a dynamic and adaptable solution that eliminates paperwork and the risk of errors associated with taking attendance on paper. Moreover, it removes data duplication and entry errors for time and attendance.

Keywords: Attendance, Marks, Admin login, Faculty login, Student login, Database management

I INTRODUCTION

Universities, colleges, and other academic institutions use the application known as the Anurag Student Management System to monitor daily student attendance and exam outcomes. It makes it simpler to learn more about a particular student's participation and performance in a particular class. Faculty and administration will submit the data for a particular class and sort it to suit their needs. This approach will also make determining a student's eligibility requirements for attendance and grades simpler. University attendance is the list of names that each professor uses to record the attendance of their students each day. This will assist teachers in entering student

information such as attendance or grades. One is the electronic attendance program.[1]

- Automated and web- grounded for easy availability.
- It's a dynamic and flexible system.
- It excludes paperwork and the possibility of making miscalculations while using paper for taking attendance.
- It's veritably stoner friendly and handy.
- The records of current and former can be available in prompt and an immediate.
- exclude indistinguishable data entry and crimes in time sand attendance entries.
- exclude paperwork and save time.
- Automatic computation of attendance/ marks and Increase security.
- To develop the functional of the system in helping the stoner to manage the class attendance

1. Admin login

Admin is a super user in this module with the ability to add any faculty and students. The administrator must provide a valid email address and password to log in. Just the rights granted to the user who has been given authorization will be granted to the administrator. After successfully logging in, the user may carry out a number of actions, including adding new faculty or students on an individual or group basis, viewing faculty and students, updating or removing attendance records, marking grades, changing passwords, and raising or responding to comments. He or she manages backup data as

well. She or he is responsible for choosing which faculties will teach each course. Assign the appropriate semester's class students.

2. Faculty login

There are n numbers of faculties included in this module. Before carrying out any faculty operations, the administrator should register the faculty information. After registering, faculty members' information is entered into the database. After successfully registering, professors must log in with an authorised UID and password. Just the rights that have been allowed for the faculty will be granted to them. Faculty can mark attendance and make corrections after successful login, but students can only view attendance, mark each student's marks on a subject-by-subject basis, change their passwords, change their profiles, and access feedbacks, student profiles, attendance reports, marks reports, and working days. He/she can examine any class information and access any student profile, a semester-wide analysis, and access to attendance data. control the backup files. Professors have access to student records as well as overall subject and semester analyses. Instructors can pick the portions they want to teach, however teachers can only choose the sections for students depending on their performance. Only the professor may record attendance for his or her topic. may examine the subject's overall attendance. Only the faculty interface has access to this attendance module; the student interface does not. If a student's attendance is accidentally marked incorrectly, teachers can fix it.

3. Student login

One can access the system as the user's representative after registering. Just the rights offered to the enrolled student will be available to the user. For instance, if a user registers as a student, the person only has access to read the data and cannot alter it in any way. After successfully registering, the student must log in using their permitted Enroll number and password. After successful login, instructors can carry out a number of actions, including checking monthly attendance, checking marks by topic, changing their profile and password, providing feedback, and seeing their profiles as well as attendance and mark reports. Faculty members may post student test results. The findings, however, cannot be uploaded by students. The records of attendance and grades, as well as a general evaluation of the topics and previous semesters, are available to students. During several lectures today, students can verify attendance. Use graphs to check average attendance.

II   PROBLEM STATEMENT

Attendance is typically taken manually at educational institutions, making it difficult for teachers to keep track of the large number of students. We have created a Web-based system that is secure and responsive, allowing users to access it from mobile devices, tablets, and various computer systems.

III   EXISTING SYSTEM

The majority of management attendance or marks are recorded manually, utilizing paper to collect all the information and a register book to save it. Teachers that manage student data manually face several difficulties as a result of these practices. Also, a manual approach requires the instructor to manually write back each student's name in their register book, which takes time. When done manually, part of the data was also duplicated. Teachers' attempts to search attendance data based on particular criteria, such as a student's name or a certain day, may result in errors. In managing the process of managing attendance records, this technique is neither efficient nor systematic. It will be easier and more methodical to use this system.

Drawbacks of Existing System

In the current system, everything is done on paper. The total session attendance is recorded in the register, and the reports are produced at the end of the semester, which requires more computation time. By the way, we are not interested in producing reports at the end of the semester, but rather throughout the semester so that the student can be aware of his circumstances and the school can decide what to do about students who have poor attendance even before the exam. As a result of our lengthy procedure, we are unable to obtain student regularity reports and act upon students as needed whenever we want.

IV   PROPOSED SYSTEM

The attendance management system is software created for the daily assessment of students' performance in line with the institution's principles and their ongoing assessment record. It is made easier to retrieve a student's academic standing and attendance/marks information for a certain semester of study. Teachers and administrators organize the data according to how each student submitted it for each day of the whole semester. This technology will also make it possible to assess students' regular attendance in various classes, which will decide whether they are qualified to take a semester test. For an attendance management system to operate well, there are usually three key parts.

• The first module, administrator, is the one that controls editing and updating of data. The admin has complete control over all users, including students and faculty.

• A faculty member or an instructor can be the user who manages the second module. This user has the authority to create daily attendance records, grade assignments, file grievances, and update, change, and generate reports for the students.

• The Student, who is in charge of handling the third user, has limited access to the system and can only examine his own records by entering his enroll number and password. He will be able to view his semester/subject-specific mark scores as well as his attendance percentage. If there are any issues he/she can communicate with admin or faculty.

V SYSTEM ARCHITECTURE

A system's structure, behaviour, and other aspects are all defined by its conceptual model, or system architecture. A formal description and representation of a system that is set up to facilitate analysis of its structures and behaviours is called an architectural description. A system architecture can be made up of the designed sub-systems and system components that will cooperate to construct the whole system. Languages that describe system architecture have been formalised in an attempt; they are referred to as architecture description languages (ADLs).

Fig 1: System Architecture

VI PROCESS FLOW

The admin will upload the excel files of faculty and students. The faculty will mark the students attendance and upload their marks. The data is stored in the database. Then the data is converted into graphical visualization and generates reports which are viewed by the students.
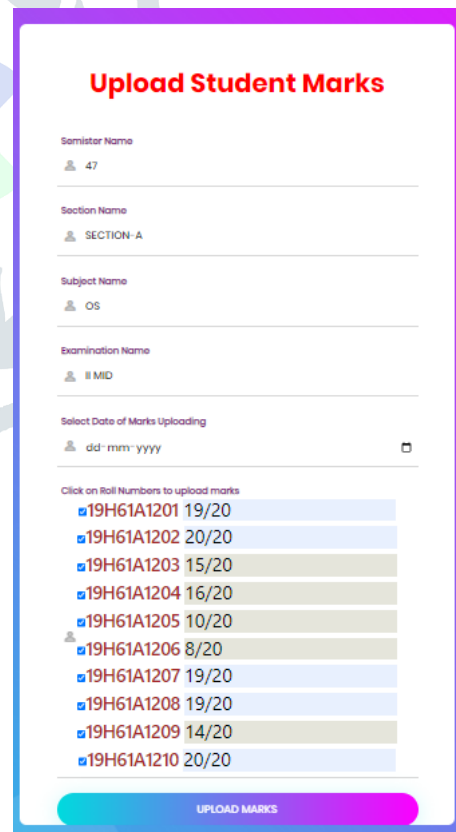

Fig 2: Process Flow

The above image shows the processing of the data.

TEST CASE

Let us consider the case of uploading the student marks into the website. The faculty will upload the marks of the student. The student can view his/her subject wise Semester mid marks visually.

Fig 3: Marks Upload Page

The above image shows the marks upload page where faculty will upload the marks of the students into the website.
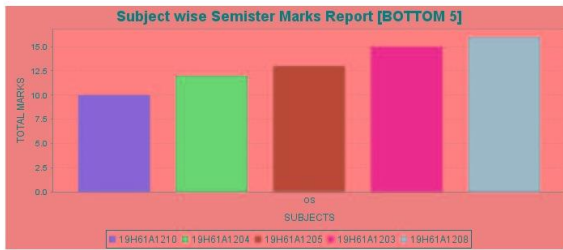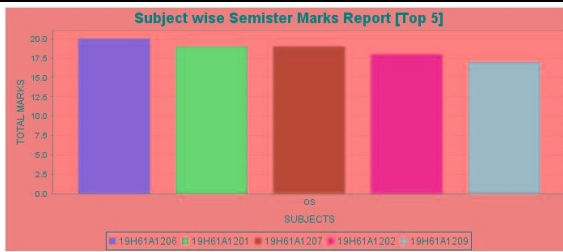
Fig 4: Student Marks Report Page

The above image shows the student marks report page where the student can view his/her marks visually using graphs.

VIII RESULTS AND DISCUSSION

In this system, the result of all the effort put into the attendance management is finally available in the Anurag Management System. It is software that assists the user in managing attendance, course updates, messaging, and other tasks.
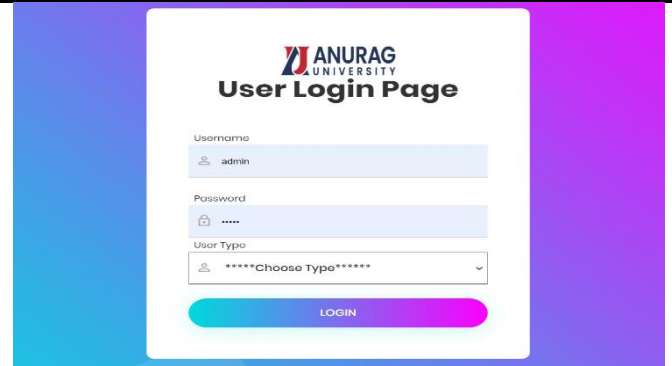

Fig 5: Home Page

The above image shows the Home page of the Anurag Management System where the admin, faculty and student can login.

Fig 6: Login Page

The above image shows the login page of user. The users can use their credentials to login to the portal.

Fig 7: Admin Home Page

The above image shows the admin home page with various actions
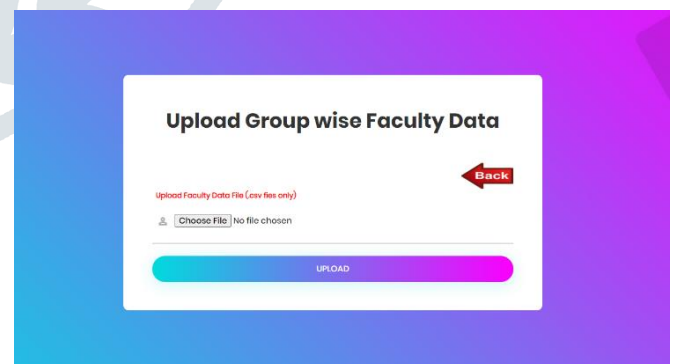the admin can perform .

Fig 8: Faculty Upload Page

The above image shows the faculty upload page where admin can upload the faculty details in to the portal.
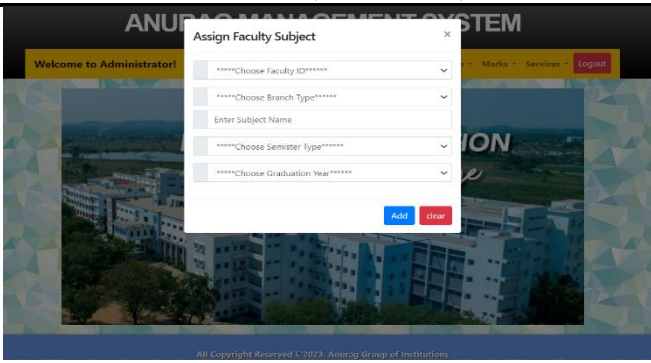
Fig 9: Faculty Subject Assignment Page

The above image shows the faculty subject assignment page where admin will assign the subjects to the faculty.
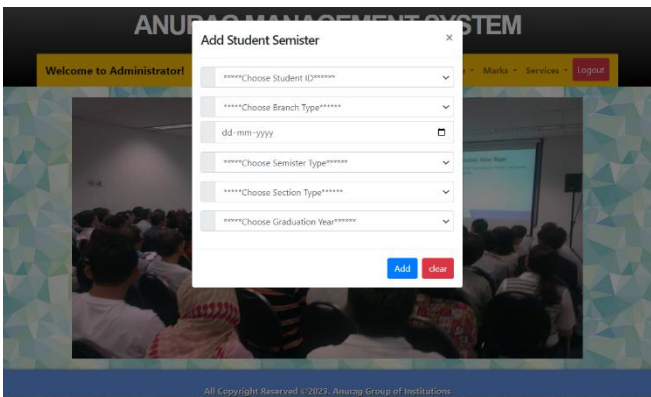

Fig 10: Student Semester Allocation Page

The above image the student semester allocation page where admin will allocate the semester for the students.

Fig 11: Faculty Mark Attendance Page

The above image shows the faculty mark attendance page where faculty will mark the attendance of students on daily basis.
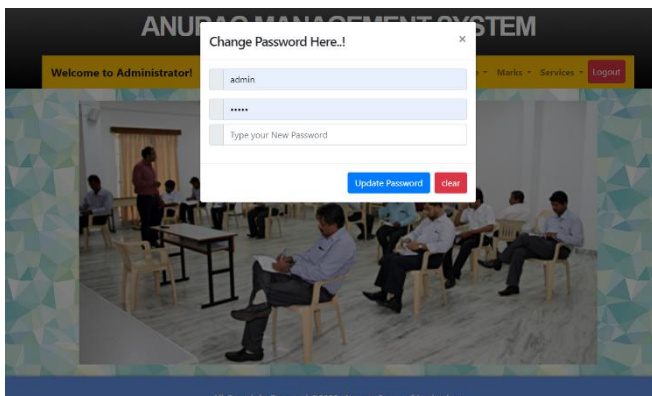

Fig 12: Password Change page

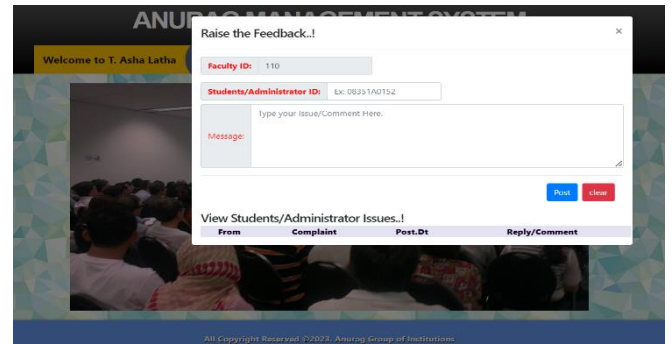The above image shows the password change page where the users can change their password.

Fig 13: Feedback Page

The above image shows the feedback page where the students and faculty can communicate regarding any issues.
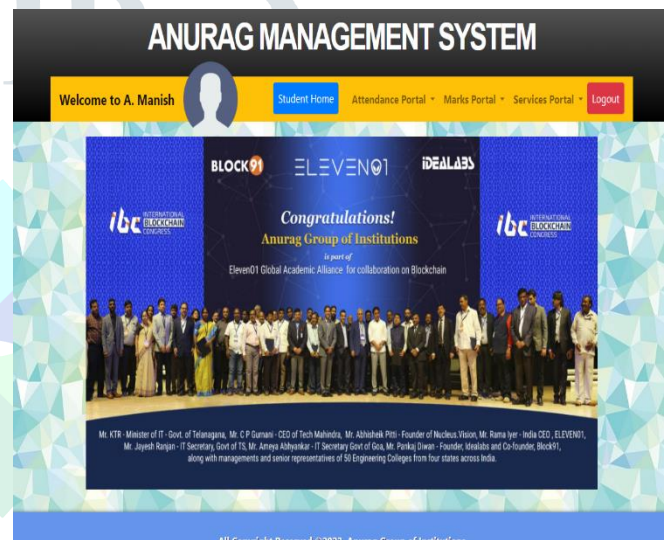

Fig 14: Student Home Page

The above image shows the student home page where the student can view his/her attendance and marks.
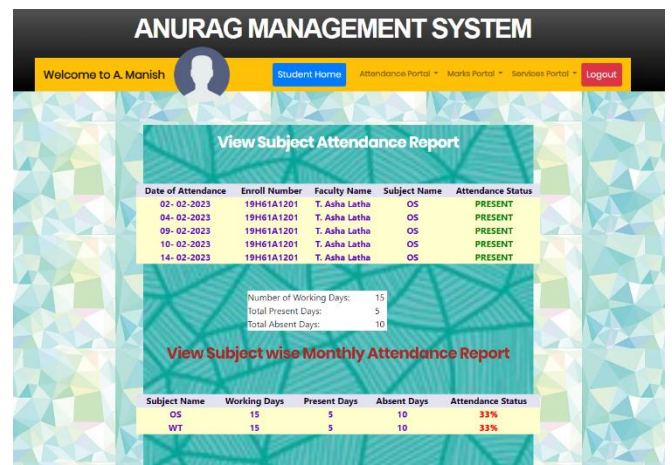

Fig 15: Student Attendance page

The above image shows the student attendance page where the student can view his/her attendance of all subjects.

Fig 13: Student Attendance Report Page

The above image shows the student attendance report page where the student can view his/her attendance visually using charts and graphs.

VII CONCLUSION

This program increases efficiency and decreases the quantity of human data entering. Everyone may use it with ease because to its simple user interface. It also minimizes the amount of time required to write details and other modules. Only people who have been confirmed may view all the information regarding students, teachers, and their other tasks. All the issues with attendance, messages, payment status, courses attended by teachers and students, etc. are resolved by this attendance management system. Thus, we can conclude that this program properly completes all of the duties and completes the work for which it was created. This system is therefore suitable for implementation in various colleges and universities.[4]

VIII REFERENCES

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