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Web Based Student Feedback System

Palak Aslam Shekh[1], Pranav Vijay Homkar[2], Sapana Bajarang Tomake[3], Vedika Vikas Yewale[4], Snehal Sachin Patil[5]
Computer Hardware and Maintenance, Rajarambapu Institute of Technology

Abstract: Student feedback is a major indicator for measuring teaching effectiveness and institutional quality. Manual feedback collection systems are inefficient due to slow processing, storage difficulties and inaccurate data analysis. This paper presents the design and implementation of an Automated Student Feedback System that provides an interactive web interface for students to submit feedback related to subjects, faculty members and infrastructure. The system securely stores feedback in a relational database and generates detailed performance reports with statistical graphs. The proposed solution enhances data accuracy, minimizes administrative workload, improves transparency and assists management in making informed academic decisions. (Abstract)

Keywords: Student Feedback System, Online Feedback, Academic Evaluation, Performance Analysis, Web Application, Education Management System (key words).

I. INTRODUCTION

The quality of education largely depends on the continuous monitoring and evaluation of teaching practices. Student feedback plays a crucial role as a reliable source for identifying both strengths and weaknesses in teaching methodologies. However, traditional paper-based feedback systems involve significant manual effort, often resulting in delays and inconsistencies in data. To address these challenges, an Automated Student Feedback System allows institutions to collect, process, and analyse feedback electronically, ensuring faster results and more reliable evaluation.

Student feedback plays a significant role in improving the quality of teaching and the overall academic environment in educational institutions. Traditionally, feedback is collected manually through paper forms or informal discussions, which can be time-consuming and difficult to manage. Furthermore, these manual methods make it challenging to efficiently analyse large volumes of feedback data and generate meaningful insights that can support academic improvement.

To address these challenges, a Student Feedback Management System is proposed to digitize and streamline the process of collecting, managing, and analysing student feedback. The system offers a structured platform where students can submit feedback about teachers and courses through online forms. This digital approach ensures that feedback is securely stored in a centralized database and can be easily accessed by authorized personnel.

The system is designed with multiple user roles, including HOD, Class Teacher, Teacher, and Student, each having specific responsibilities and access privileges. Students can fill out feedback forms and provide ratings and comments about their learning experience. Teachers and Class Teachers are able to view feedback reports related to their subjects and classes, while the HOD is provided with administrative control over the system, including adding teachers, managing subjects, and reviewing overall feedback reports.

In addition to feedback collection, the system includes modules for student management, subject assignment, feedback form activation and deactivation, and report generation. The collected data is stored in a centralized database, where it is processed and analysed to generate visual reports and summaries. These reports help administrators identify teaching strengths and detect areas that require improvement. By automating the feedback process, the proposed system reduces administrative workload, improves transparency, and enables efficient analysis of student opinions. Overall, this platform contributes to enhancing the quality of education by facilitating continuous evaluation and improvement of teaching practices.

II. LITERATURE SURVEY

A. The paper “Student Feedback System” by M. Jothika and N. Amutha presents an online platform that enables students to easily submit feedback on faculty performance. It replaces the traditional paper-based feedback process and automatically generates reports for faculty members, HODs, and administrators. The system includes modules for students, faculty, and administrators to efficiently manage feedback data, and it utilizes a web-based portal, database server, and login authentication for secure storage and processing.[1]

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B. The paper "Feedback Management System" by Pushpa Chutel and her team describes a web-based system designed to collect student feedback about teachers. It allows students to provide ratings online and helps institutions evaluate teaching performance through automatically generated reports. The system consists of student, admin, and super-admin modules to effectively manage feedback forms and results.

It is developed using React JS for the front end and Node.js with Strapi for the back end, following the Waterfall Model. However, the system has certain limitations, including dependence on internet connectivity, the possibility of biased student feedback, and restricted evaluation due to the use of fixed questions.[2]

C. The paper "Student Feedback System" by Mayer Kamble and team proposes a paperless approach for collecting and analysing student feedback for faculty evaluation. In this system, students log in using a username and password, select their subjects, and rate teachers with options such as Excellent, Very Good, Good, Average, and Poor. Administrators can view feedback results, manage student records, and generate graphical reports to facilitate better analysis. The system is developed using HTML, JavaScript, PHP, and MySQL, running on a XAMPP server.

However, a notable limitation is that it is primarily suited for small institutional environments and may need enhancements to handle large-scale data and support advanced analytics.[3]

D. The paper "Online Student Feedback System" by Kunal A. Rahangdale and team presents a system that collects student feedback on faculty, library, administration, infrastructure, and other college facilities. Students register and submit feedback online through different sections, and the system stores and analyses the responses to identify weaknesses and improve education quality. The system includes student, faculty, and admin modules for managing feedback and results. A limitation of this system is that it mainly focuses on basic feedback collection and analysis, with limited advanced automation features.[4]

Overall, while existing literature contributes valuable ideas toward automating student feedback systems, most systems are limited in one or more aspects: secure multi-user authentication, advanced data analytics, real-time graphical reporting, scalability, and integration of qualitative feedback.

The proposed system addresses these limitations by integrating secure login, role-based access, real-time report generation, statistical trend analysis, and data visualization in a unified framework.

III. EXISTING SYSTEM

The existing manual system has the following limitations:

1) Feedback is collected using physical forms leading to storage problems.
2) Data entry is manual and error-prone.
3) Report generation takes several days.
4) Feedback confidentiality is not guaranteed.
5) Performance comparison is not possible.

IV. PROPOSED SYSTEM

The proposed system is a web-based application that automates feedback submission, storage, and analysis. It supports four main user roles: HOD, Class Teacher, Teacher, and Student. Each user is provided with a secure login to access only authorized modules. The system prevents duplicate feedback entries and ensures data integrity.

The Class Teacher and HOD can manage students, teachers, classes, and subjects, while teachers can view the feedback reports related to their subjects. All feedback data is stored in a central database, which is used to generate feedback analysis and performance reports. This system helps institutions easily monitor teaching quality and make improvements based on student feedback while reducing manual work and improving data management.

The system follows a three-tier architecture:

- Presentation Layer: Web interface using HTML, CSS and JavaScript.
- Application Layer: Handles validation, report generation.
- Database Layer: Stores feedback, student, faculty and subject records in MySQL

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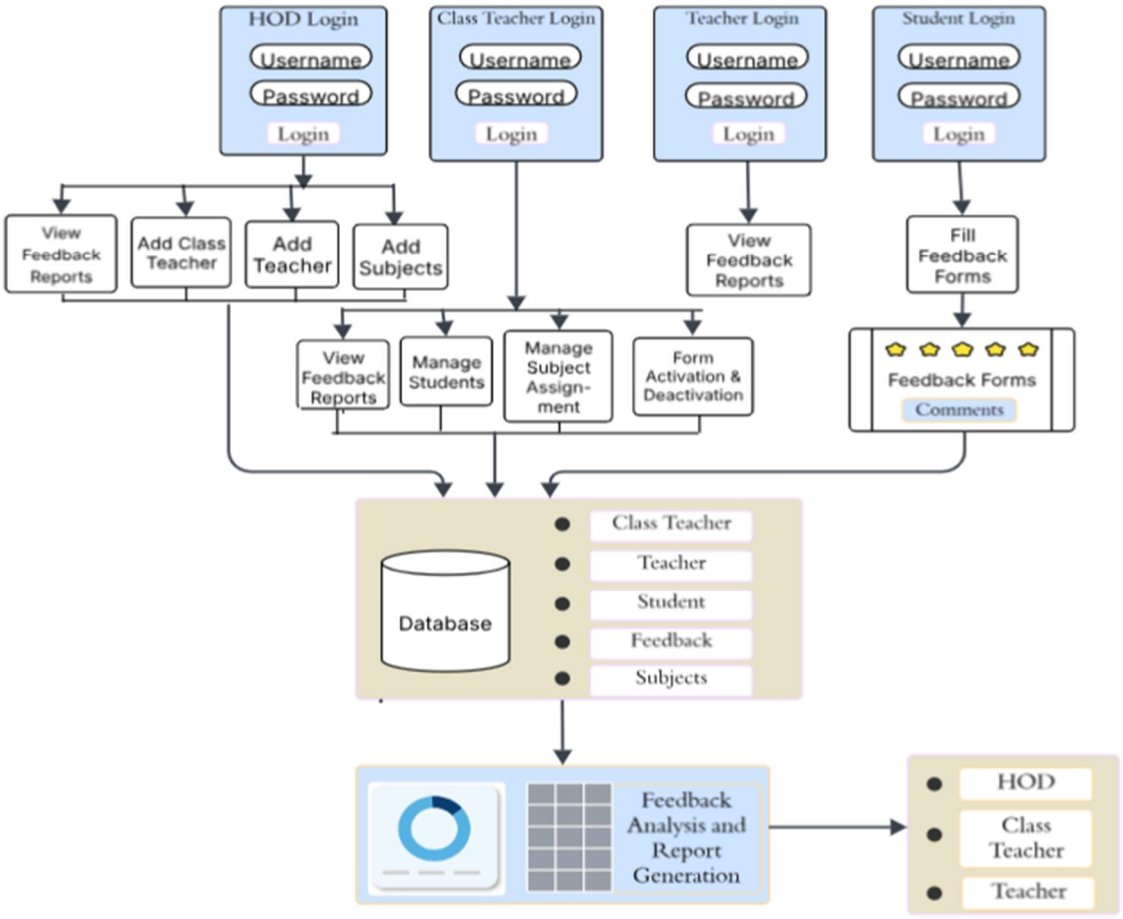


Fig. 1 System Architecture

V. MODULE DESCRIPTIONS

A. *Hod Module*

1) Secure login using ID and password
2) Add, edit and delete class teacher profiles
3) View consolidated faculty performance reports
4) Compare subject-wise performance across semesters
5) Export reports in PDF or Excel format

B. *Class Teacher Module*

1) Upload student data using Excel or csv files
2) Assign faculty and subjects to students
3) Track feedback submission status
4) View class-wise and subject-wise feedback summary

C. *Student Module*

1) Login using unique student ID
2) View allocated subjects and faculty
3) Submit ratings based on parameters such as teaching quality, punctuality and subject clarity
4) Provide optional textual comments

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D. Report Generation Module

1) Automatic generation of bar graphs and pie charts
2) Display average ratings and improvement suggestions
3) Enable comparison between different faculty members

VI. DATABASE DESIGN

Name of Table	Attributes
Student	Student_id, Name, Class, Roll_no
Class Teacher	Teacher_id, Name, Department
Teacher	Teacher_id, Name, Course_code
Student	Subject_code, Subject_name, Semester
Feedback	Feedback, Student_id, Faculty_id, Subject_id, Rating, Comments, Date

VII. IMPLEMENTATION TECHNOLOGIES

1) Front-end: CSS, JavaScript
2) Back-end: PHP
3) Database: MySQL
4) Tools: XAMPP, VS Code, Browser

VIII. RESULT ANALYSIS

The system successfully generates faculty-wise and subject-wise feedback reports in real time and has been implemented and tested for different users such as HOD, class teacher, teacher, and students. Students were able to log in and submit feedback forms to a centralized database, which were then processed to generate feedback reports and analysis. The generated reports helped in identifying the performance level of teachers based on student ratings and comments. The analysis results were displayed in a clear format so that the HOD and teachers could easily review and understand the feedback. Overall, the system reduced manual work, improved data accuracy, and made the feedback collection and evaluation process faster and more efficient for the institution.

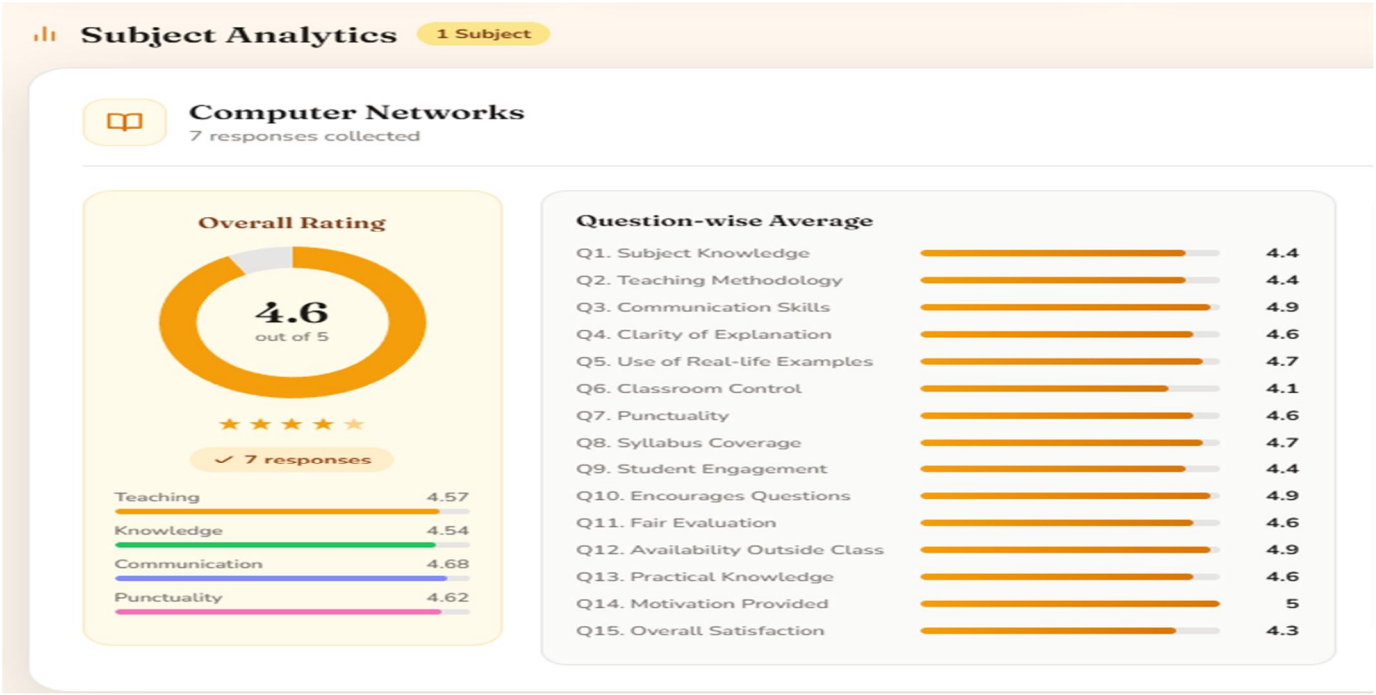
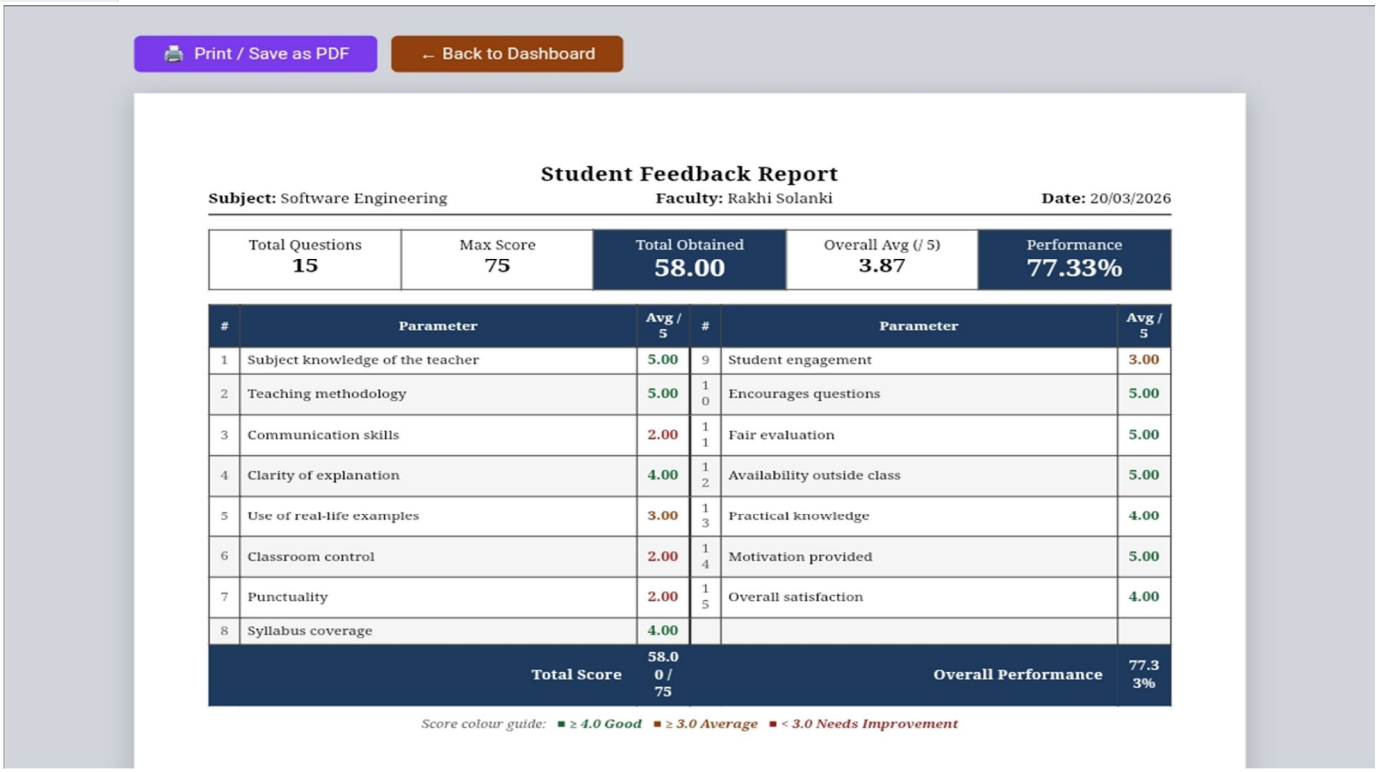


Fig. 2 Feedback Reports



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Student Feedback Report

Subject: Software Engineering **Faculty:** Rakhi Solanki **Date:** 20/03/2026

Total Questions	Max Score	Total Obtained	Overall Avg (/ 5)	Performance
15	75	58.00	3.87	77.33%

#	Parameter	Avg / 5	#	Parameter	Avg / 5
1	Subject knowledge of the teacher	5.00	9	Student engagement	3.00
2	Teaching methodology	5.00	10	Encourages questions	5.00
3	Communication skills	2.00	11	Fair evaluation	5.00
4	Clarity of explanation	4.00	12	Availability outside class	5.00
5	Use of real-life examples	3.00	13	Practical knowledge	4.00
6	Classroom control	2.00	14	Motivation provided	5.00
7	Punctuality	2.00	15	Overall satisfaction	4.00
8	Syllabus coverage	4.00			
	Total Score	**58.00 / 75**		**Overall Performance**	**77.33%**

Score colour guide: ■ ≥ *4.0 Good* ■ ≥ *3.0 Average* ■ < *3.0 Needs Improvement*

Fig. 3 Exported Feedback Report

IX. FUTURE ENHANCEMENT

1) Mobile application development
2) AI-based sentiment analysis
3) Integration with ERP system
4) Collect Feedback for Library, Administration, and other college Facilities
5) Advanced Data Visualization

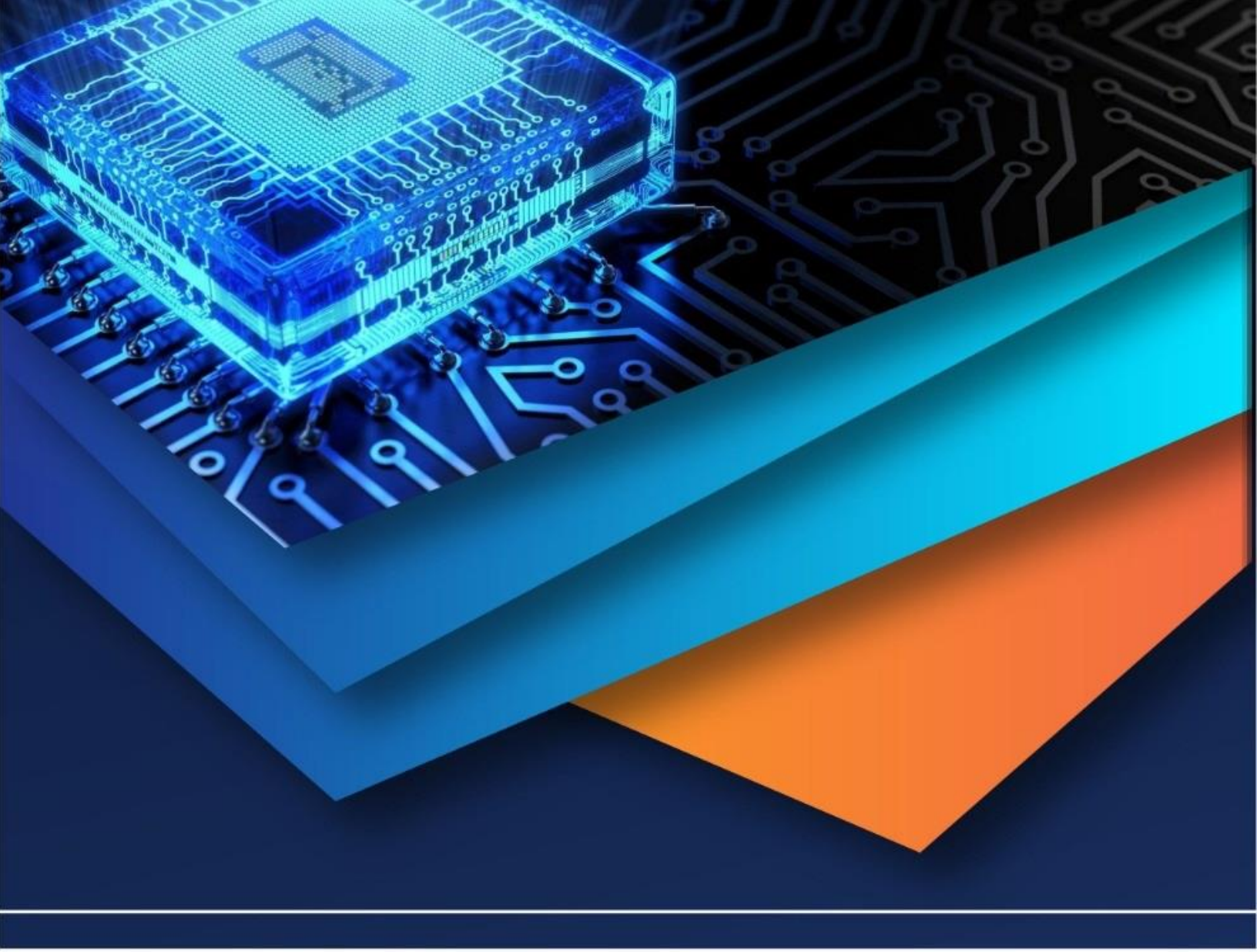
X. CONCLUSION

The Student Feedback System provides an efficient and reliable platform for collecting and managing feedback from students about courses and Teacher's performance. It replaces traditional manual methods with a digital, user-friendly system that saves time, ensures data accuracy, and promotes transparency. Through this project, universities can better understand students' needs, identify areas for improvement, and enhance the overall quality of education. The system not only streamlines communication between students and administrators but also contributes to continuous academic improvement and institutional growth.

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