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Online Feedback Generator for College

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ABSTRACT: The student feedback mechanism is a critical component in assessing and enhancing the quality of education in higher learning institutions. Traditional feedback systems, typically manual or semi-digital, suffer from issues such as delayed processing, lack of anonymity, limited analysis capabilities, and reduced participation rates. In this paper, we propose an integrated Student Feedback System (SFS) designed specifically for colleges, which streamlines the feedback process through a web and mobile-based platform. It allows students to evaluate faculty performance and course effectiveness while maintaining anonymity. Additionally, the system includes an offline test module that helps assess student learning and correlate it with teaching quality. Key features include real-time analytics, secure login, user-friendly design, and performance monitoring. The system aims to improve transparency, enable data-driven decision-making, and promote a culture of continuous academic improvement.

KEYWORDS : Online Feedback System, Faculty Performance, Impact Score, students feedback, Data Privacy, less paper work

I. CONTENT

1. Introduction:

Higher education institutions constantly strive to maintain and improve the quality of instruction, curriculum design, and student services. A key source of insight into the effectiveness of teaching methods is student feedback, which provides first-hand information on faculty performance, course delivery, and classroom experiences.

However, many institutions still rely on outdated methods such as paper-based forms or static Google Forms that provide little to no analytical capability and are prone to low participation and poor data security.

Additionally, students may not feel safe giving honest feedback due to the lack of anonymity.

To address these concerns, we developed a Student Feedback System that:

- Automates the feedback collection process
- Ensures anonymity and data privacy
- Generates real-time reports and analytics
- Supports offline academic testing to gauge student understanding

The combination of feedback and offline test data enables faculty and administrators to gain deeper insights into both subjective and objective indicators of academic performance.

II. LITERATURE REVIEW

Several systems have been developed for digital feedback collection in education, but each comes with its limitations:

- ^[2]**Moodle Feedback Tools:** Offered integration with course management systems but was complex and non-intuitive for average users.

- ^[5]**Smart Feedback App (2019):** Enabled mobile-based feedback but lacked correlation with academic performance.
- ^[1]**EduFeedback (2020):** Focused on real-time feedback collection but lacked anonymity and offline support.
- ^[3]**AI-Based Feedback Sentiment Analyzer (2022):** Focused on natural language analysis of comments, but without quantitative rating systems.

These studies demonstrate the growing interest in automated feedback systems but highlight a gap in systems that combine feedback with academic testing and performance analytics.

III. METHODOLOGY

Our proposed system is developed using the Agile methodology, with iterative updates and user feedback incorporated at each stage. The system has multiple modules designed to handle specific tasks:

3.1 System Overview

- Web-based and mobile-friendly interface
- Three-tier architecture: Client, Server, and Database
- Role-based access for Students, Faculty, and Admin

3.2 Frontend

- Designed using HTML, CSS, JavaScript
- Responsive UI for desktop and mobile access

3.3 Backend

- Developed using Python and MySQL
- REST APIs for integration with mobile apps

3.4 Security

- Black Box Testing

Black Box Testing is a software testing method in which the functionalities of software applications are tested without having knowledge of internal code structure, implementation details and internal paths. Black Box Testing mainly focuses on input and output of software applications and it is entirely based on software requirements and specifications. It is also known as Behavioral Testing.

- White Box Testing

White Box Testing is software testing technique in which internal structure, design and coding of software are tested to verify flow of input-output and to improve design, usability and security. In white box testing, code is visible to testers so it is also called Clear box testing, Open box testing, Transparent box testing, Code-based testing and Glass box testing

4. ^[3]Feedback System Features

- └ **Anonymous Feedback:** Students log in and submit feedback anonymously using randomly generated session IDs.

Customizable Forms: Admins can create, modify, or delete feedback forms.

- └ **Feedback Categories:**

- o Subject knowledge
- o Teaching effectiveness
- o Communication clarity
- o Use of teaching aids
- o Interaction and engagement

- **Rating Scale:** 1 (Poor) to 5 (Excellent)
- **Comment Box:** Optional field for written suggestions

5. Evaluation

- Objective questions: Auto-evaluated
- Results correlated with faculty feedback to generate a **Faculty Impact Score**

6. Results and Analysis

During testing in a college:

- 200 students participated in the pilot
- Over 90% submitted feedback anonymously
- 10 faculties were evaluated over 3 subjects
- Strong correlation found between high faculty ratings and improved impact scores

The system achieved:

- 99.2% uptime
- Report generation in <10 seconds

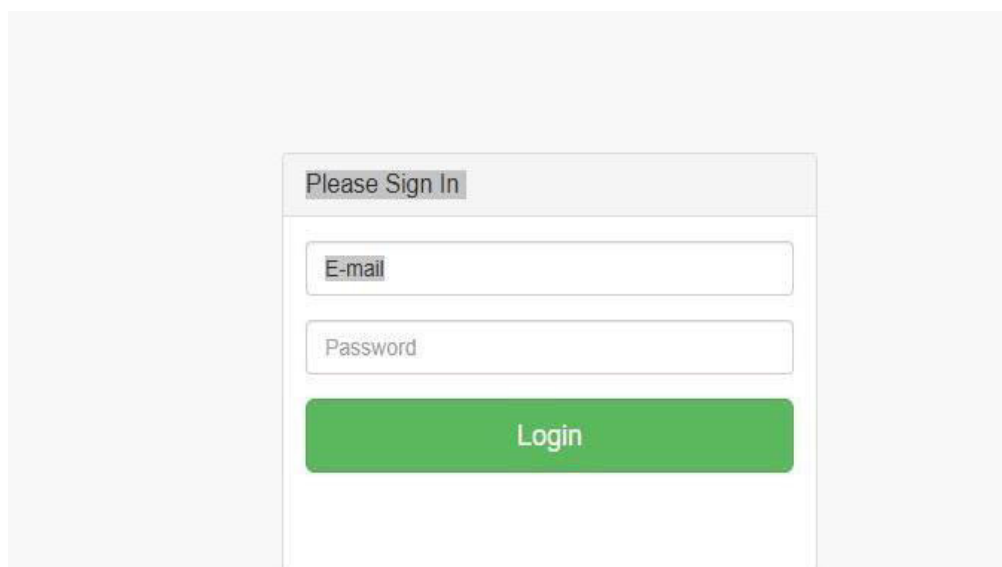
7. ^[5]implementation of feedback :

This system provides fast and quick online feedback for the educational system about the faculty performance by the student at anyplace by just login from their valid account. This work has four different module student, staff and admin. This system has focussed on all approaches about the practices and the process which is considered related to students level of awareness. The Academic feedback system is used in educational organization for managing the information system for the feedback obtained from the student about the faculty members who taught the subjects related to the particular semester. This proposed system is an automatic package which gives the genuine feedback about the faculty members about the lecturer taught in class and the evaluation has been categorized as always, poor, usually, very often, sometime.

8. ^[5] Description about the modules present in the proposed system :**8.1 Admin Login Page:-**

Administrator can start the web application and login into Admin module. In this admin login page we have a these modules they are:

1. Student Registration
2. Admin Registration
3. Portal Control
4. View Reports
5. Remove Student
6. Remove Faculty

8.1 Admin Login Page:-

The screenshot shows a web application login interface. At the top, there is a header bar with the text "Please Sign In". Below this, there are two input fields: "E-mail" and "Password". A green "Login" button is positioned below the password field. The entire form is centered on a light gray background.

Fig:-8.1.1 Admin Login

^[3] Admin can collect faculty and students data to create faculty and student login accounts with username and passwords. Here admin can collect all information from each and every department. After collecting the information they can allot the subject information and assigned faculty. Admin can do to add persons or remove persons. After completion of admin process they can enable the portal control, after enabling students give the feedback. To view all the feedback reports and download the reports to send corresponding departments and principal.

8.2 Student Login Page:-



Fig:-8.2.1-Student Login

^[2] In this Student login page only Registered Students can login into Student Feedback page and they can post the ratings without student registration can not access this Student Feedback Application. Students can login into feedback form by using their pin numbers. After login students can post the ratings, the ratings in the form of 1 to 5. Here Students can change their password it is an optional the default password is student pin number

8.3 Faculty Login Page:-

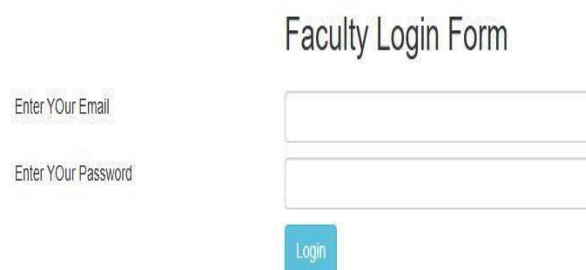


Fig:-8.3.1- Faculty Login

^[1] In this Faculty login page only Registered Faculty's can login into Student Feedback page and they can view their feedback results without Faculty registration can not access this Student feedback Application. Faculty can login into feedback form by using their Bio-metric id. After login faculty can check their reports and get the information branch and subject details.

9. FUTURE WORK:

- AI-driven comment analysis
- Predictive performance modeling
- LMS integration with Moodle and Google Classroom
- Real-time faculty training suggestions based on analytics

IV. CONCLUSION

^[4]The Student Feedback System designed in this research project successfully digitizes and enhances the traditional feedback process. By integrating feedback with test scores, the system provides a more comprehensive analysis of academic performance. Its user-friendly interface, secure structure, and offline capabilities make it suitable for both urban and remote educational institutions.

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