



E-Learning & Feedback Monitoring System Window Application Using ASP.NET

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I. INTRODUCTION

Abstract:

This E-Learning & Feedback Monitoring serves as a comprehensive guide to subject and provides students with a collection of information. In a digital format optimized for multiple devices, it offers an immersive experience for students seeking knowledge and practical guidance. An integrated assignment module will facilitate the creation, distribution, and submission of assignments. Educators can easily upload assignments, track submissions. This platform will incorporate a robust feedback system, enabling students to submit their opinions regarding the course content, assignments, and overall learning experience. Educators have the opportunity to leverage this feedback to refine teaching methodologies and customize content to better suit the learners' requirements. This can be achieved through the integration of e-books, assignments, and feedback. By integrating e-books, assignments, and feedback mechanism, this project seeks to create a unified e-learning environment that fosters collaboration, engagement, and continuous improvement in the educational process.

Keywords: E-learning, customization, ASP.NET

By offering a central hub for educational resources, a comprehensive platform is intended to revolutionize the student-teacher

interaction. This platform facilitates seamless access to downloadable PDFs of teacher notes, enabling students to augment their learning experience effectively. Moreover, it provides a streamlined mechanism for students to submit assignments. Furthermore, the platform features a feedback system that allows students to assess and share insights about the performance of teachers. This cutting-edge platform is intended to improve educational collaboration, optimize learning outcomes, and create a collaborative academic environment for both students and teachers.

Motivation:

The motivation behind our E-learning and feedback monitoring system empowers students by granting easy access to vital educational resources in the form of downloadable PDFs, enabling them to reinforce classroom learning at their own pace. Furthermore, it streamlines the assignment submission process, fostering efficient communication channels between students and teachers. Incorporating a feedback mechanism for teacher performance helps cultivate a culture of transparency and continuous improvement within the academic ecosystem. Integrating these functionalities into a unified

system can revolutionize the learning experience for both students and educators.

Scope:

The scope of an E-learning and feedback monitoring system is vast and transformative. Such a system encompasses the facilitation of diverse educational resources and tools, enabling remote access to courses, interactive learning materials, and real-time collaboration among students and educators. It streamlines assignment submission processes, providing a seamless interface for students to submit work and for teachers to evaluate. It involves the integration of robust feedback mechanisms allowing for continuous assessment, personalized feedback loops, and performance analytics.

II. LITERATURE SURVEY

The status of research and the advancement of online learning:

This paper offers a valuable insight into online learning, which involves using networks for learning or teaching purposes. Learning can be done through MOOC Mu class platform, Adult online education, WeChat group, mobile phone apps, and other forms.

The eyes of learners are drawn to five domestic MOOC platforms:

According to Bi Qiaochun's survey, MOOC platforms in China may revolve around the experiences and perspectives of learners. The area of education and technology has been greatly interested in MOOCs (Massive Open Online Courses) in China.

Technical framework and development trend of EBD:

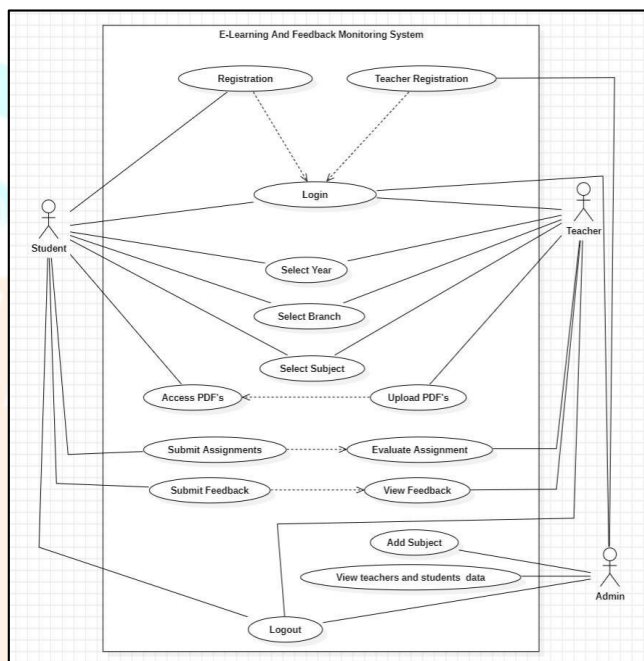
This paper provides details about educational Big Data (EBD) which is currently facing unprecedented recognition of existing educational psychology.

The use of technological platforms is increasingly crucial in adapting current approaches towards technology-based programs.

III. SYSTEM DESIGN

Use case diagram:

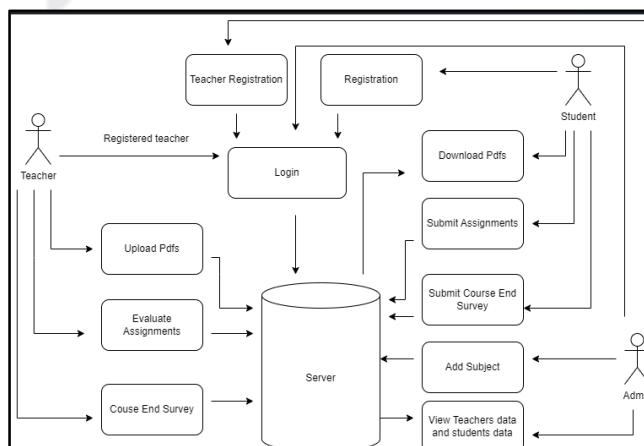
Use case diagrams are used in the use case model to show how users perceive the system's functionality. Three primary participants are involved in the diagram: teachers, students, and administrators. The administrator's key responsibilities in Figure 1 are to manage teacher registrations and perform operations such as adding and deleting. Students can access various functions, such as downloading notes uploaded by teachers, submitting assignments, and providing feedback.



System Architecture:

The system architecture of the proposed platform revolves around a secure and modular design that seamlessly integrates the key functionalities of PDF uploads, personalized assignment submissions, and a comprehensive feedback system.

The architecture initiates with a module that



authenticates users, guaranteeing that only authorized individuals, specifically teachers and relevant staff, can access the platform. Teachers will utilize a dedicated interface for uploading PDFs, with the system employing secure storage protocols to safeguard educational materials. Personalized links generated by teachers will be used by students for assignment uploads, leading to a user-friendly and efficient submission process. The heart of the architecture lies in the feedback system, where a designated section allows students to provide insights into teacher performance.

In designing the subsystem of the platform mentioned, we break down the overall system architecture into distinct components that each have specific functions within the system.

User Authentication Subsystem:

This subsystem is responsible for managing the user authentication and authorization process, validating login credentials, and providing access rights according to user roles. Make sure that only authorized teachers and students have access to the platform.

Teacher Interface Subsystem:

This subsystem provides a dedicated interface for teacher to upload PDFs. Implements secure file upload protocols to protect educational materials.

User Interface Subsystem:

The interface of this subsystem is designed to be intuitive and user-friendly for both teachers and students, and ensures a consistent and responsive design for the best user experience.

Assignment Submission Subsystem:

This subsystem generates personalized links for assignments submissions and handles the submission process, ensuring proper data capture. Securely stores student assignments by integrating with the storage system.

Feedback Management Subsystem:

This subsystem consists of designated section for student feedback on teacher performance.

Storage and Database subsystem:

This subsystem manages the secure storage of uploaded pdfs and student assignments. Integrates with the feedback management subsystem to store and retrieve feedback data.

IV. SYSTEM'S GOAL

User-Friendly Interface:

The system's interfaces are tailored for teachers and students and are intuitive, responsive, and easy to navigate. Creating customized links for assignment submission to simplify the process for students and reduce administrative expenses.

Document Management:

Facilitating the secure uploading of educational materials in PDF format by teachers, guaranteeing the integrity and confidentiality of the content. Creating a storage and database subsystem to handle and retrieve uploaded PDFs and student assignments in an efficient manner.

Feedback system:

Putting in place a feedback system that enables students to give valuable insights into teacher performance during project reviews. Encouraging open and honest communication can be achieved by ensuring anonymity in feedback submissions.

Data management:

Building a database subsystem that can efficiently store and retrieve data, including feedback information and user profiles.

Collaboration:

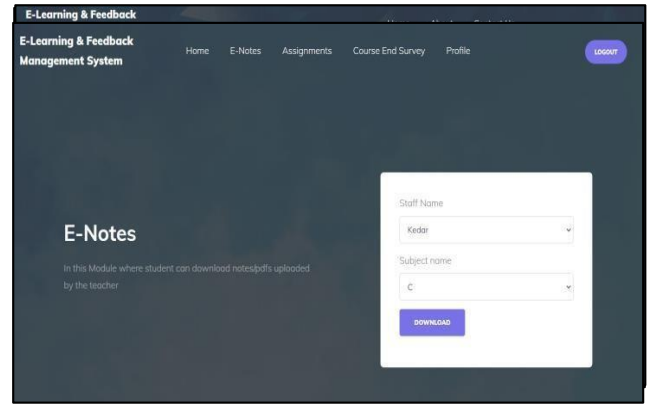
Enabling teachers to share educational content and students to submit assignments effortlessly fosters a collaborative learning environment.

V. METHDOLOGY

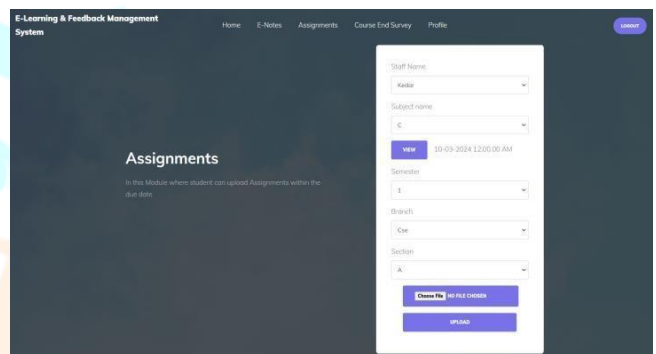
1. Perform a comprehensive examination of the educational setting to comprehend the

specific requirements and obstacles.

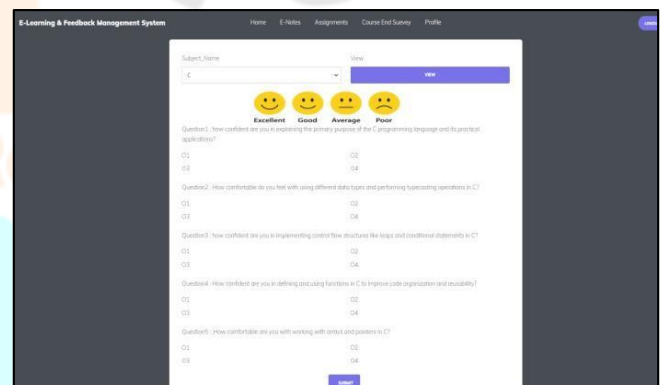
2. Integrate ASP.NET our seamless interaction with the backend database ensures efficient data access and management through the storage and retrieval of educational content, assignment submission data, and feedback data.
3. Develop user-friendly interface for submitting feedback and provide administrators with tools to analyze and respond to the collected feedback.
4. Ensure that students can personalize their learning experience by implementing dynamic customization features.
5. Detect and address any bugs or issues within the application by performing thorough testing, which includes unit testing, integration testing, and system testing.



e. Assignment submission



f. Feedback submission



VI. RESULT

A. Student-Side Operations

a. Student Registration

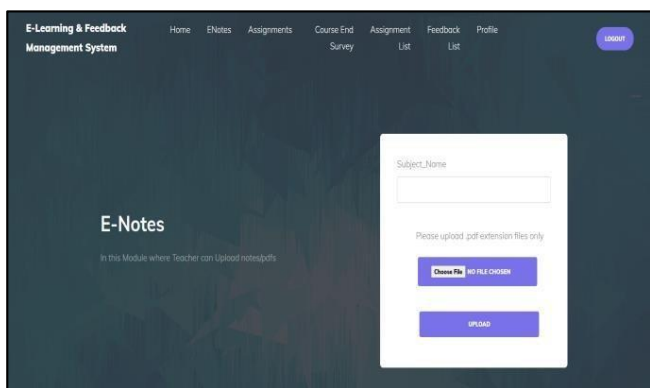
c. Student login

d. PDF'S download

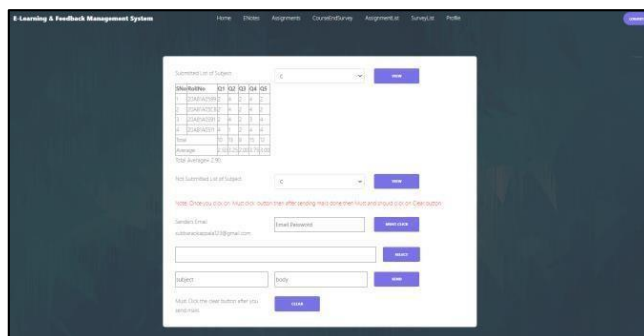
B. Teacher side operations

a. Teacher Login

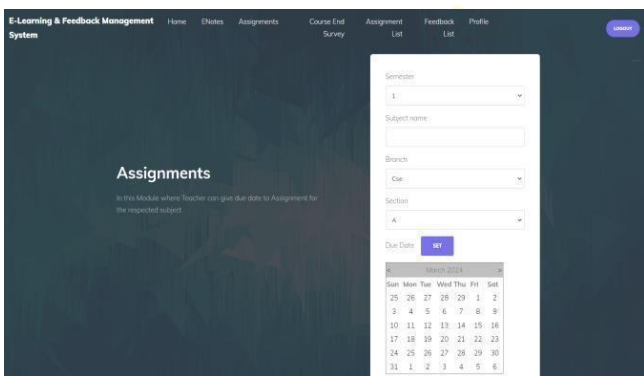
b. Teacher uploads pdf's.



survey submitted list and send mails to the students also.

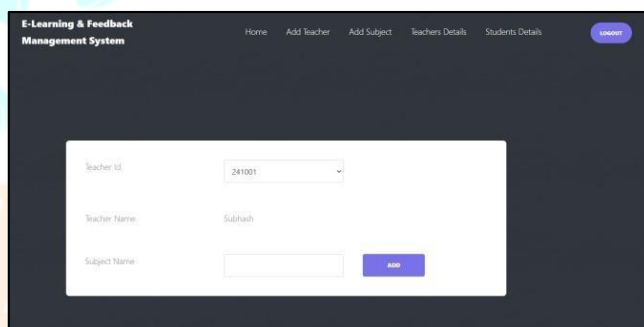


c. Teacher can give due date to submit assignments.

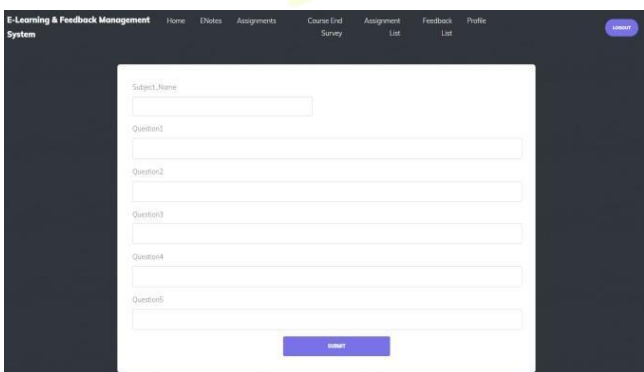


C. Admin side operations

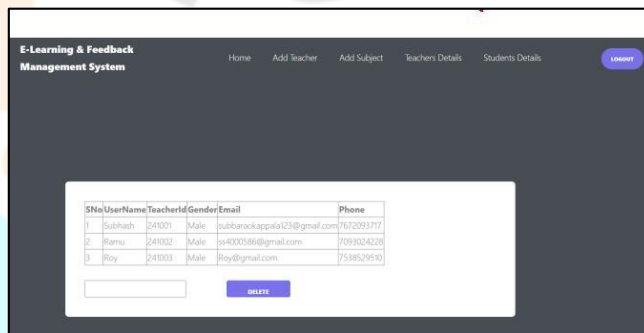
a. Admin adds subjects that the teacher willing to teach.



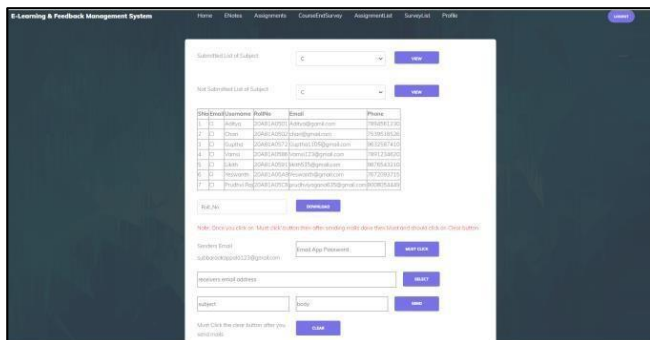
d. Teacher can give feedback questions.



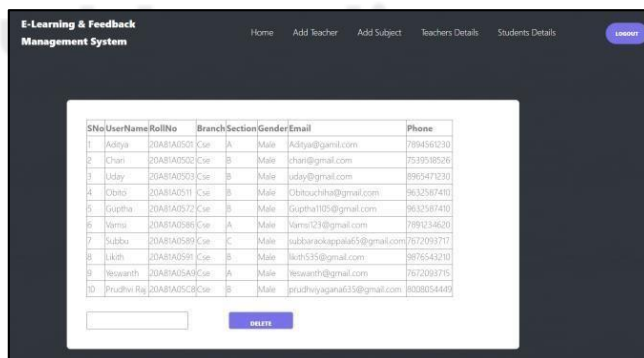
b. Admin can view all the registered teachers.



e. Teacher can view the assignment submitted list and send mails to the students also.



c. Admin can view all the registered students.



f. Teacher can view the course end

D. Database

a. Student database

| SNo | UserName | RollNo | Branch | Section | Gender | Email | Phone | Password | image |
|-----|-------------|------------|--------|---------|--------|-----------------|------------|----------|----------------|
| 8 | Aditya | 20A81A0501 | Cse | A | Male | Aditya@gamil.c. | 7894561230 | 753 | 0x89504E47D0D. |
| 9 | Chari | 20A81A0502 | Cse | B | Male | chari@gmail.co. | 7539518526 | 852 | 0x89504E47D0D. |
| 10 | Uday | 20A81A0503 | Cse | B | Male | uday@gmail.co. | 8965471230 | 951 | 0x89504E47D0D. |
| 4 | Guotha | 20A81A0572 | Cse | B | Male | Guotha1105@g. | 9623507410 | 2356 | 0x89504E47D0D. |
| 5 | Vamsi | 20A81A0596 | Cse | A | Male | Vamsi123@gm. | 7891234620 | 789 | 0x89504E47D0D. |
| 1 | Subbu | 20A81A0589 | Cse | C | Male | subbarackappa. | 7672093717 | 123 | 0x89504E47D0D. |
| 2 | Likith | 20A81A0591 | Cse | B | Male | likith33@gma. | 9876543210 | 234 | 0x89504E47D0D. |
| 7 | Yeswanth | 20A81A05A9 | Cse | A | Male | Yeswanth@gma. | 7672093715 | 456 | 0x89504E47D0D. |
| 6 | Divakar | 20A81A05C4 | Cse | B | Male | diva@gmail.com | 7891234560 | 0123 | 0x89504E47D0D. |
| 3 | Prudhvi Raj | 20A81A05C8 | Cse | B | Male | prudhviaganat. | 8008054449 | 789 | 0x89504E47D0D. |
| * | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

b. Teacher database

| UserName | Teacherid | Gender | Email | Phone | Password | image |
|----------|-----------|--------|----------------|------------|----------|-----------------|
| Subhash | 241001 | Male | subbarackappa. | 9876543217 | 234 | 0xFFD8FFFE1008. |
| Ramu | 241002 | Male | ss4000586@gm. | 7093024228 | 56 | 0xFFD8FFFE1008. |
| Dawood | 241003 | Male | Dawood43@g. | 987632541 | 567 | 0xFFD8FFFE1008. |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL |

c. Assignment submitted database

| Roll_No | Subject | Sem | Branch | Sec | AssignFile | Filename |
|------------|---------|------|--------|------|----------------|----------|
| 20A81A0589 | C | 5 | Cse | Mech | 0x255044462D3. | C.pdf |
| 20A81A0503 | C | 1 | Cse | A | 0x255044462D3. | C.pdf |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL |

d. Feedback submitted database

| SNo | RollNo | Subject | Q1 | Q2 | Q3 | Q4 | Q5 |
|-----|------------|---------|------|------|------|------|------|
| 1 | 20A81A0589 | C | 2 | 4 | 2 | 4 | 2 |
| 2 | 20A81A05C8 | C | 2 | 4 | 2 | 4 | 2 |
| 3 | 20A81A0591 | C | 2 | 4 | 2 | 3 | 4 |
| * | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

While ASP.NET itself is not inherently constrained to local databases, deployment challenges may arise due to factors like network latency, security concerns, and varying database configurations. Global deployment of Windows applications with ASP.NET-connected databases can face hurdles related to data synchronization, compliance with regional data protection regulations, and the need for robust network infrastructure. To ensure seamless application deployment across diverse geographical locations, developers must carefully plan and optimize database interactions based on these considerations.

VII. CONCLUSION

Constructing a platform that integrates PDF storage for teacher notes and simplified assignment submission processes. A significant leap forward in educational technology is achieved through a robust feedback system for evaluating teacher performance. This centralized hub enhances accessibility to course materials, optimizes assignment management, and fosters a feedback-driven environment for educators and students. Through seamless communication, remote learning, and data-driven insights. This platform not only changes the educational experience but also allows for constant improvement, guaranteeing a dynamic and engaging ecosystem that is beneficial to both teachers and learners.

VIII. ACKNOWLEDGEMENTS

We express our sincere gratitude to those who have contributed to the completion of this revolutionary project, Our goal is to revolutionize the e-learning and feedback system by using a user-centric approach powered by ASP.NET technology. Our team's unwavering support was crucial in achieving this endeavor. The invaluable guidance provided by mentors and advisors was instrumental in shaping this innovative system. We acknowledge the critical role played by the project's unique feature, enabling users to request specific courses and receive personalized responses, thereby overcoming the limitations of existing e-learning systems. This acknowledgment extends to the wider academic community for their active engagement and collaboration, which has paved the way for a more tailored and efficient learning journey.

IX. REFERENCES

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