Web Based Feedback System

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Abstract

This research suggests an Web Based online feedback system for examining teacher feedback in educational setting.

To evaluate faculty performance based on a set of criteria and offer the required academic intervention program rooted in the creation of an all-encompassing faculty development program, the suggested system gathers all the pertinent information from the feedback. Compared to the current feedback method, which asks students to rate teachers according to predetermined criteria, the suggested Web Based feedback system (WBFS) is more adaptable and flexible. WBFS evaluates instructors' strengths and shortcomings in all areas that matter to pupils. Students, instructors, and the staff in charge of administering and processing the feedback system will all gain from the study's outcome. Through the anonymous use of an online platform called WBFS, students can evaluate their professors' performance using a predetermined set of evaluation criteria and questions. Higher-ups at the institute may also utilise this information to assemble faculty groups that are suitable for certain teaching and administrative responsibilities.

With the help of a mobile device, the assessor conducts a paperless evaluation of the teacher under the proposed Online Faculty Monitoring and Evaluation System. Because the software evaluation results satisfied the researcher's goals, they should be developed further. The generated study was very helpful and may be a great help to the institution, according to the general means of the system evaluation. The faculty members' improved usage was a result of their evaluations.

Keywords:

Web-based application, Administrate activities, Software Evaluation, Performance, Internet, Website, Social Network Services.

1. Introduction:

Smart online feedback system is an essential process in any educational institution that aims to improve the quality of teaching and enhance the learning experience for students. It allows students to provide feedback on their teachers' performance and helps teachers to identify areas for improvement. Traditional faculty evaluation methods involve paper-based forms or online surveys that are time-consuming, inefficient, and often ineffective in generating

accurate and reliable feedback.

To address these issues, this project proposes the development of a faculty evaluation system that leverages the latest web technologies and user experience design principles to provide a seamless and efficient way for students to rate their teachers. The feedback system offers several key features, including OTP-based login, ratings, and a fully manageable admin panel that allows administrators to view, edit, and export evaluation data.

The proposed smart feedback system aims to automate the feedback process and improve the accuracy and reliability of feedback. It provides students with an intuitive and user-friendly interface to rate their teachers based on various performance parameters such as teaching effectiveness, course content, and student engagement. The system's admin panel enables administrators to monitor the evaluation process, view evaluation data in real-time, and generate reports for further analysis.

Overall, the proposed Smart online feedback system offers a comprehensive solution to improve the quality of teaching and enhance the learning experience for students. It can be deployed in any educational institution to streamline

the faculty evaluation process and provide accurate and reliable feedback to teachers.

2. Objectives:

- To develop a modern, web-based smart feedback system that is accessible from anywhere and provides a user-friendly interface for students to rate their teachers.
- To improve the accuracy and efficiency of the faculty evaluation process by leveraging technology and automation.
- To provide administrators with real-time access to evaluation data and reports that can be used to generate insights and make data-driven decisions.
- To enhance the quality of teaching and learning in the institution by providing teachers with timely and constructive feedback from students

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- To enable remote learning scenarios by providing a web-based system that is easily accessible to students.

- To ensure the security and privacy of evaluation data by implementing appropriate security measures and data protection policies.

- To develop a scalable and customizable system that we can be adapted to the unique needs of the institution and its stakeholder

3. Methodology:

Software

Computer software refers to a collection of programs and data that tell a computer how to perform specific tasks. It is divided into two main categories: system software and application software. System software manages the computer hardware and provides a platform for running other software, while application software is designed to perform specific tasks for the user. Examples of application software include word processors, spreadsheets, and web browsers.

3.1 Importantance of Software

Software is important because it enables electronic devices to perform specific tasks, such as creating documents or browsing the internet. Without software, electronic devices would be useless. Software also makes it easier for users to interact with and control their devices, and new software updates provide improved features and capabilities.

3.2 Software is:

- Software refers to a collection of programs and data that tell a computer or other electronic device how to perform specific tasks.
- There are two main categories of software: system software and application software.
- System software manages the computer hardware and provides a platform for running other software.
- Application software is designed to perform specific tasks for the user, such as creating documents or browsing the internet.
- Examples of application software include word processors, spreadsheets, web browsers, and games.
- Software is constantly evolving and improving, with new updates and releases providing users with new features and capabilities.

- Without software, electronic devices would not be able to operate or perform the tasks that they are designed to do.

3.3 Software Development Life Cycle (S.D.L.C)

The Software Development Lifecycle (SDLC) is a structured approach to the creation and maintenance of software. It typically involves several phases, including planning, analysis, design, development, testing, deployment, maintenance, and retirement. The SDLC provides a framework for managing the entire software development process, from conception to retirement, and helps ensure that the software meets the requirements of stakeholders and functions as intended. The SDLC is an iterative process, and each phase may be revisited as needed throughout the development process.

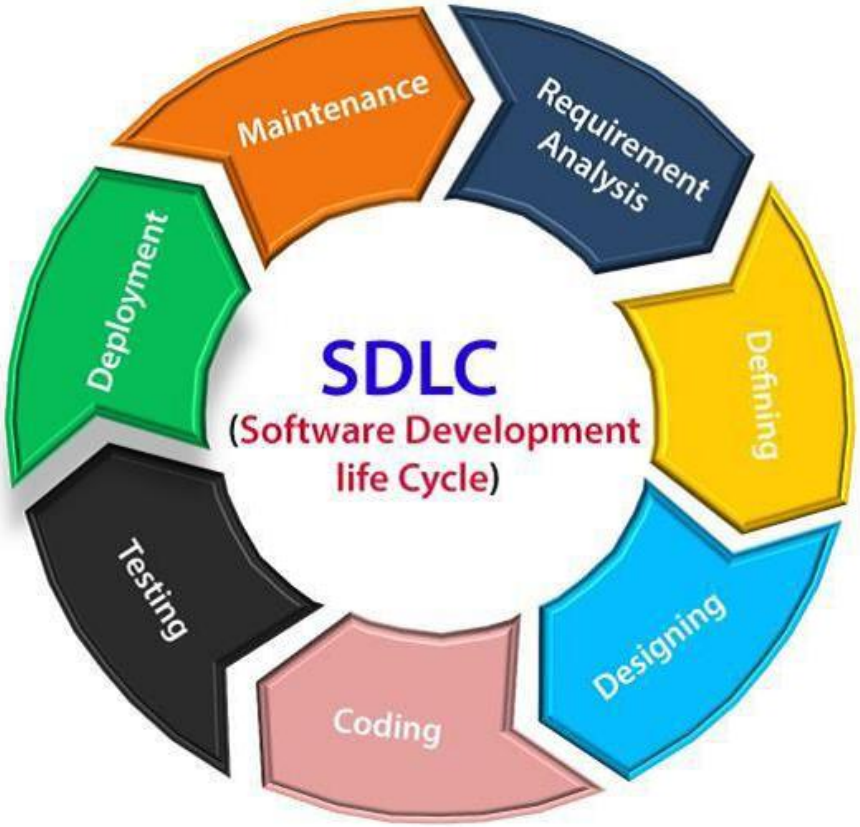


Figure 2: *Software Development Life Cycle*

We used a popular and efficient project management methodology called Agile scrum for the development of our project. It is described in the paragraphs below.

Agile Scrum is a popular methodology for developing web-based projects. It is an iterative and collaborative approach that emphasizes flexibility, responsiveness, and continuous improvement. Here is a brief explanation of how the Agile Scrum methodology works for web-based project development:

- **Requirement Gathering**

The first step in the methodology is to gather requirements from stakeholders, such as college management, faculty, and students, to identify the specific needs and features to be included in the faculty evaluation system.

- **System Analysis**

Once the requirements are gathered, the next step is to analyze the current system in place and identify any areas that need improvement. This involves studying the existing faculty evaluation process, identifying its strengths and weaknesses, and determining how the new system can address the shortcomings of the current process.

- **Design**

Based on the requirements and system analysis, the system design is created, including the user interface, database schema, system architecture, and other technical specifications. The design should ensure that the system is

user-friendly, scalable, secure, and able to handle high volumes of data.

• **Implementation**

After the design is complete, the system is developed using appropriate software technologies and programming languages. In this project, the system will be developed using PHP, MySQL, HTML, CSS, and JavaScript. The system will include features such as OTP-based login, a 1-100 rating range slider, an admin panel, and a user-friendly interface.

• **Testing**

Once the system is developed, it is tested to ensure that it meets the requirements and works as intended. The testing includes unit testing, integration testing, system testing, and user acceptance testing. The goal of testing is to identify and fix any bugs or issues before the system is deployed in a live environment.

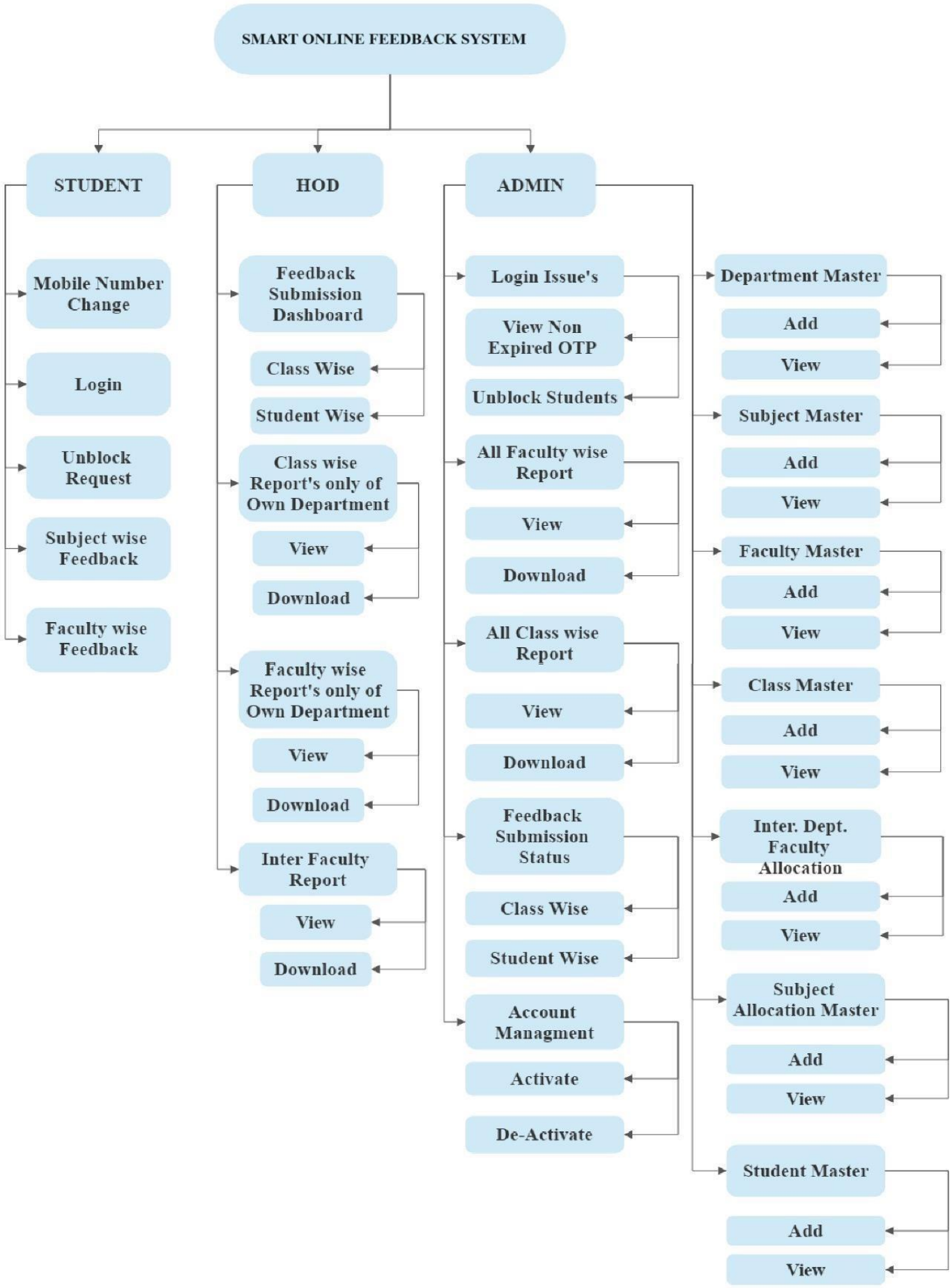
• **Deployment**

After the system is tested and any issues are fixed, it is deployed in the live environment. This involves installing the system on the college's server and making it available to users. In this project, the system will be deployed
on a web server using a domain name and accessible over the internet.

• **Maintenance**

Finally, the system requires ongoing maintenance and support to ensure that it continues to work correctly and meets the changing needs of users. Maintenance includes tasks such as bug fixing, updates, backups, and user support.

4. Flow of Execution:



5. Conclusion:

Based on the analysis, design, development, testing, and defect reports, the faculty evaluation system is a comprehensive web-based application designed to automate the process of faculty evaluation. The system provides a user-friendly interface that enables students to evaluate faculty members and provide feedback in a more effective and efficient way. It includes features such as faculty registration, evaluation criteria setup, feedback collection, and report generation.

During the testing phase, the system underwent rigorous testing to ensure that it functions as expected and meets the specified requirements. However, a few defects were identified, and they were addressed by the development team. The defect reports indicate that there were some issues related to the system's functionality, user interface, and security, but these were resolved in a timely manner.

Overall, the project was successful in achieving its objectives of automating the faculty evaluation process and providing a more convenient and efficient way of collecting feedback from students. With further improvements and enhancements, this system has the potential to transform the way universities and colleges handle faculty evaluations.

6. Acknowledgement:

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7. Authors' Biography:

- **Rajesh Salunkhe- Student**

8.

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