College Feedback System

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Abstract:
College feedback system is a web application which is used to know the feedback of students and their parents about the college infrastructure, teaching faculty and other factors. It is a secure system as the user is authenticated before entering into the system. The system comprises of various feedback forms that is to be filled and submitted. The system consists of generation and analysis of feedback given by students and parents. They can also give suggestions for improvement and can report any grievance. The security of the system is maintained as the result of feedback is only visible to the respected HODCollege feedback system is a web application which is used to know the feedback of students and their parents about the college infrastructure, teaching faculty and other factors. It is a secure system as the user is authenticated before entering into the system. The system comprises of various feedback forms that is to be filled and submitted. The system consists of generation and analysis of feedback given by students and parents. They can also give suggestions for improvement and can report any grievance. The security of the system is maintained as the result of feedback is only visible to the respected HOD

Background:
As far discussed the previous system worked on manual process. The student used to give feedback by using paper and pen on lecturer's, seminar's and various workshop conducted. After giving the feedback the form is collected and then submitted to the respected HOD, who then view, calculate and adds record to the database manually. This whole process consumes time of students and HOD'S.The motivation behind this new online feedback system is to overcome the shortcomings in the previous manual process system. Through this project the feedback can be quickly filled and the result or graph will be generated with accuracy. To save the paper and pen this project is used.

Key Words: Feedback form, System online, Report, HOD, Student and Parent.

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I. Introduction

Nowadays everything is online. Right from ordering food to reserving seats in restaurant, from buying clothes to booking tickets. One can do all their work online without being physically present. Keeping the online concept in mind, we have developed a 'College Feedback System Website.'As the name suggests it's a website which will be used for giving feedback in college. A feedback is very important because you get answer to many questions such as whether you are improving or not, which places are you still lacking behind, etc. This website currently is only for a particular college named "M.H. SabooSiddik Polytechnic" situated at Byculla, Mumbai 08. The motive of developing a college feedback website was to know the opinion of student, ex-students and parents.

II. Material and methods

This project is implemented using php. Thus, we had used php 7.0 which is the latest version of php for implementing this project. In this project we have used three modules student parent and head of the department. We have used notepad++ to write php scripts and for database we have used Mysql which is the best suited database with php.

Notepad++:Notepad++ is a text based and code editor which is   used with Microsoft Windows. It supports editing, which helps you to work with multiple open files in a single window. The project's name comes from the C increment operator. It is cost effective and free to use. It helps you write the source code of desired language. It supports various languages such as HTML, Javascript, PHP, Python,etc

MySQL: MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.[6]

III. Literature Review

This paper provides an overview of online student feedback system in college. There are 3 modules student, faculty and principle where students can view and fill only their feedback, faculty can fill self-appraisal, peer appraisal and can view student's feedback and lastly principal/ head of department can verify student and faculty and can calculate percentage [1]. Admin can add, delete, update in the data base and can view the generated reports. Student can login with their credentials give feedback and logout [2].This paper presents the results of a questionnaire based survey that had the objectives to obtain the perception of lecturers on the benefits or otherwise of students online feedback systems. The case study was carried out in four engineering faculties of a Malaysian public university that uses an online student feedback system, termed SUFO. The main objective was to evaluate if the lecturers think that data from the online feedback system obtain via SUFO is fair and if it helps to improve their teaching quality. The results from lecturers' perception indicated that universities can use information from an online Student Feedback System to improve quality of teaching and learning [3].To achieve success in any teaching program it is very important to have adequate communication between teachers and students. Feedback given by student helps teachers to improve on performance and behaviour. Semantic web (SW) technology is a promising approach for data selection and retrieval. Different web mining techniques are used for extracting useful information from web data. In this paper the main focus is to extract knowledge from the feedback given by the students and this can be done by firing Sparql Query in Ontology. This knowledge can be represented in meaningful form [4].Feedback analysis system is way for any instructional institute to behavior student¶s feedback on line as well as offline. This is the pleasant way to discover feedback document in step with the requirement consisting of remarks given through the diverse form of people and so on and it is the green place to get feedback analysis. It is able to be one of the powerful manner to decorate & reinforce scholar gaining knowledge[5].

IV. Proposed System

The College Feedback System website aims to know the students and parent's feedback about the college infrastructure, faculty/staff and other related information about college. It is an automatic feedback generation system where user (student and parent) will login with their credentials give feedback and logout. The user can see only his/her feedback. Students can give feedback about their faculty's performance as per the given categories like excellent, very good, good, average and poor.
Similarly parents will also give feedback about the college placements and other factors with same categories as mentioned above.
The following modules are implemented:
1. Student: It will be used by the student to give the feedback by using his/her login credentials.
2. HOD: This module provides the functionalities like add, delete, modify the content of the faculty and updating the format of report generations.
3. Database: It will be used to maintain the data required for college feedback system.
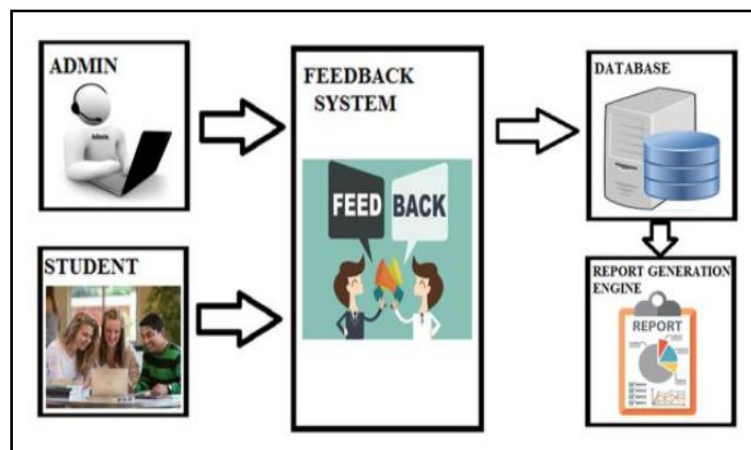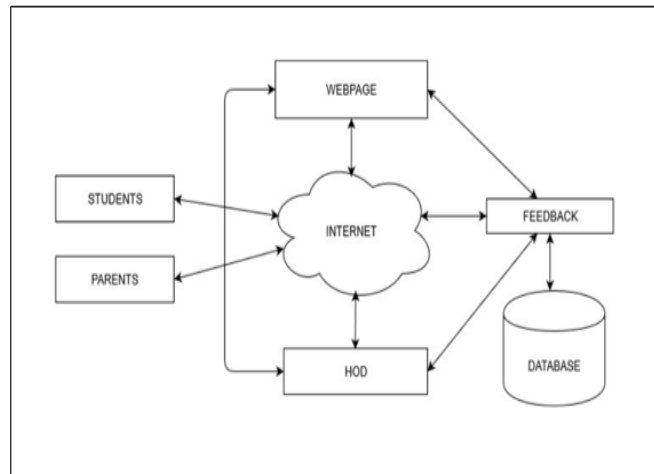

Fig. IV.a.Implementation

Fig.IV.b.Block Diagram

Modules
Student Module:
Firstly, the student has to register. Only registered students will log in by his/her username and password. In the dashboard all the required contents of the student's feedback forms will be displayed. There would be an option 'student feedback form' in this there would be questions related to the faculty's performance such as their punctuality, efforts towards teaching, knowledge towards their respected subject and other related questions.
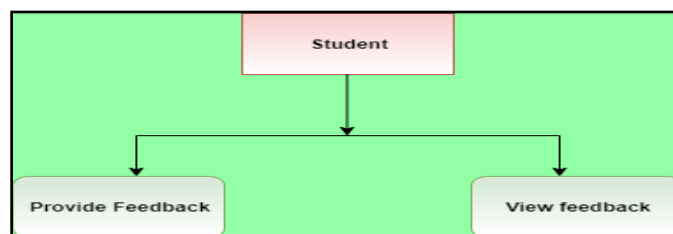

Fig.IV.c. Student Module

HOD Module:
Here the respective head of the department will first login. The hod will enter his/her user name and password, if the hod do not have an account they have to create a new account. As the details are filled the faculty/staff dashboard appears in which they can fill self-appraisal, peer appraisal. The hod should firstly fill the self-appraisal in which they have to rate themselves on some criteria. The peer faculty has to click onto the peer appraisal in order to fill the form as they click onto peer appraisal.
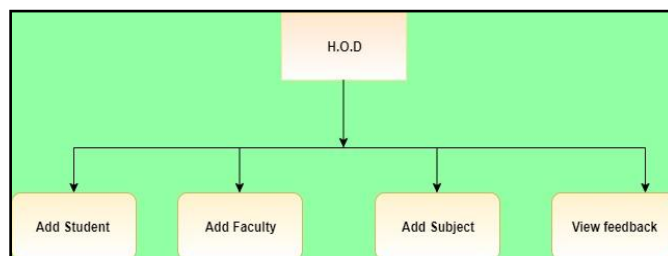

Fig.IV.d. HOD Module

Parent Module:
Parent can also Login into the system using his appropriate credentials. After entering into the system the parent can view the feedback that are provided earlier and also provide the feedback related to the college placements and other factors.
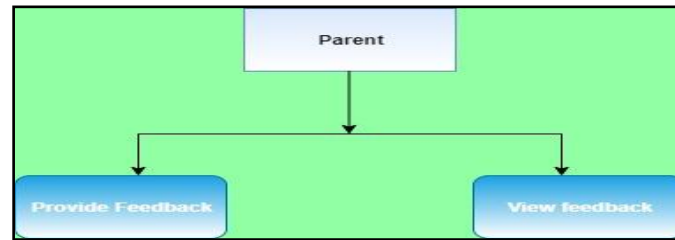
Fig.IV.e. Parent Module

V. Conclusion

In this paper, we have done a deeper understanding about the concept of machine learning. We took into consideration a few of the supervised machine learning algorithms like Logistic Regression, Linear Discriminant

Analysis, KNN, Classification and Regression Tree and Naive Bayes. According to our research we found out that

Logistic Regression is better than other algorithms which were taken into consideration in this paper. It exceeded in the parameters like accuracy, logarithmic loss, mean squared error, mean absolute error and R 2 metrics. only in Areaof ROC Curve, Linear Discriminant Analysis Algorithm was better than LR with a minute difference. In future, wemay do the analysis on more different types of machine learning algorithms so it may be more helpful for datascientists.

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