

ENHANCING THE IMPACT OF FORMATIVE FEEDBACKS ON STUDENTS LEARNING

Dr. R. Kumar¹, Y.Gayathri², V.Mani³, M.Varshini⁴, R.Vidhya Dharshni⁵

1 Assistant Professor(Sl.Gr.), Department of IT, Sri Ramakrishna Institute of Technology, Coimbatore, India.

2,3,4,5 Student in Department of IT , Sri Ramakrishna Institute of Technology, Coimbatore, India.

ABSTRACT

The purpose of developing this software project is an important element for quality assurance of education. The feedback is helpful to improve the teaching and thereby enhancing the students learning experience. In this system the student privacy is protected with responses not being traceable to specific identities. This system has been developed to override the problems prevailing in the practicing manual system .This system is supported to eliminate some cases and reduce the hardships in the existing system. Student feedback system can lead to error free, secure, reliable and fast management system. Thus it will help organization in better utilization of resources. The existing system carries more time to do a piece of work for this reason the online system feedback is implemented.

Keywords: Report, Feedback

1. INTRODUCTION

The Online Student Feedback System is used for improving the education establishments to manage student data. Student Feedback Systems provide capabilities for selecting particular subject for feedback and generate the report automatically, build student details, student-related data needs in a college. A Online Student Feedback System provides the proper feedback to the faculties as per the categories like Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree. In the existing system students can give feedback about the lecturers by doing manually. By this process student can give feedback in online system without wasting his time in writing. After giving feedback by every student papers are collected by the faculty and calculated the overall grade for each subject and each lecturer. After that those all grade report is viewed by the HOD which is given by the faculty. Hence estimating the performance of lecturers and giving feedback to college staff. So that the existing system carries more time to complete the work. This is the main disadvantage of the existing system for giving feedback about the lecturers and viewing report of lecturers manually. Responses are collated on behalf of departments by the system, and will be used only for the purposes of quality enhancement. The aim of this is to save time for staff in academic departments and to allow a minimum level of statistical analysis of the data across the College. This recognizes that whilst the information remains the property of the College.

2. OBJECTIVES

1. Decision making power is provided by this system
2. Accurate result can be obtained
3. This system makes Selection process more effective
4. To increase efficiency proposed system is depend on classification method
5. Proposed system is used to reduce confusion at the time of processing feedback average

3. SYSTEM IMPLEMENTATION

In this paper we implemented the system which works on the concept of online feedback from students which is the replacement of existing paper feedback system which is so complicated method for finding an average for particular subject feedback which is submitted by students. In this system we have design main three forms student login form, admin login form, faculty login form. Student will login in their login form with proper id and password which is provided by admin at the time of registration. After that if student want any changes in his profile then there is an option for edit such particular information of his own. After that the subject contains page is displayed, where the subject is located in it and as per the selection from student students continued to their feedback after this page the feedback page is displayed. This page contains a form which includes such questions about the teachers where it contains some simple question regarding particular subject faculty. After giving the feedback the page appeared which contains a message like you are feedback is submitted. Then after feedback is submitted there is a log out button after click on it student will successfully log out from their profile. In main page it contains some hyperlinks like contact us, frequently ask questions, and submit the queries. And contains three particular modules like student login, admin login, staff login etc. Admin will fill the information of students as well as view their feedback, add and delete student and generate the average report of that feedback. After that log out button occurs and admin simply logout from the system. Student will login by using user id and password and after the login page will be open contains subjects, suggestion box, submit suggestions, submit feedback and after their occurs a log out button for log out successfully from the system.

4.EXISTING SYSTEM

In the beginning we had paper and pen for giving feedback after giving feedback by every student, the papers are collected by faculties. The faculties calculate the overall percentage for each course. The overall report is viewed by Hod's and principal. The existing system carries more time to do a piece of work for this reason the online feedback management system is implemented.

4.1. PROPOSED WORK

The main aim of “Online Students Feedback System” is its exceptional quality and services that differentiates it from other system. The key features of this system are as follows:

Users are broadly classified into 2 categories:

1. Student
2. Faculty

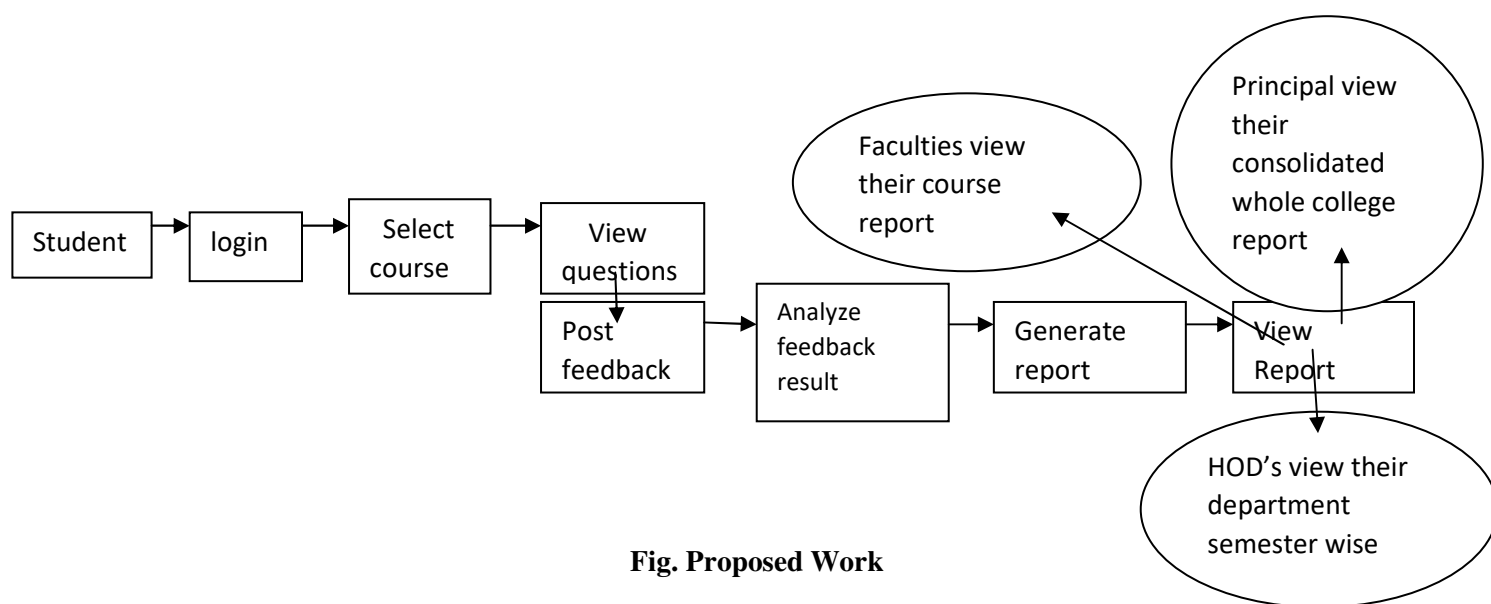
The core functionality that is to be included in the system is as follows:

4.1 Student

- They can give their own feedback.
- They can leave their comments to the respective staff members.

4.2 Faculty

- They can view their respective comments given by students.-
- They can view total analysis of the feedback.

**Fig. Proposed Work**

5.RESULTS

The screenshot shows a web browser window with the address bar displaying 'localhost/multi_user/login.php'. The main content area has a dark blue background. In the center, there is a light blue box titled 'Login Form'. Inside this box, there are two input fields: 'Username:' with the text 'kumar' and 'Password:' with masked characters '*****'. Below these fields is a blue button labeled 'Sign in'.

Fig 5.1 Login

Welcome to kumar

Subject List		
Course Code	Courses	Feedback
EC6301	Advanced Databases	Feedback
EC6302	Advanced Operating Systems	Feedback
EC6303	Artificial Intelligence	Feedback
EC6304	C# AND .NET PROGRAMMING	Feedback
EC6305	Cloud Computing	Feedback
EC6306	Compiler Design	Feedback
EC6307	Computer Networks	Feedback
EC6308	CS6551 COMPUTER NETWORKS	Feedback

Fig 5.2 List of courses

st/multi_user/feedback_form.php/course_id=59

Welcome to kumar

Feedback Subject

Subject code : 59

Subject Name :: Software Engineering

 Subject Feedback

A. Course Evaluation

A1.	The course has developed interest in the subject	-- Select -- ▼
A2.	The course has given me a good understanding of the subject	-- Select -- ▼
A3.	The course was well organized	-- Select -- ▼
A4.	The handouts, assignments and exercises given were adequate	-- Select -- ▼
A5.	The workshops, seminars, tutorials and practical were useful	-- Select -- ▼
A6.	I have achieved the course outcome No:1(CO1)	-- Select -- ▼
A7.	I have achieved the course outcome No:2(CO2)	-- Select -- ▼

Fig 5.3(a) Feedback page for course evaluation

B. Teaching Evaluation		
B1.	The course syllabus was presented clearly to the class	-- Select --
B2.	The lecturer demonstrated his/her knowledge and competence in the subject matter	-- Select --
B3.	The lecturer gives sufficient practices to test my understanding of concepts and principles	-- Select --
B4.	Corrected assignments and tests were made available to the students	-- Select --
B5.	The lecturer was punctual for the classes	-- Select --
B6.	The lecturer is easily available for consultation	-- Select --
B7.	Overall, I would like to rate the lecturer's performance as very good	-- Select --

Fig 5.3(b) Feedback page for teaching evaluation

Welcome to kumar

Feedback Subject

Subject code : 59

Subject Name :: Software Engineering

 Successfully Feedback Submitted!

Fig 5.4 Submission page

Hi Welcome, this is admin Page!

Course Name	Number of User Answered	Average	Percentage
Advanced Databases	6	2.67	53.33
Advanced Operating Systems	5	2.65	52.94
Artificial Intelligence	2	2.41	48.24
C# AND .NET PROGRAMMING	2	3.29	65.88
Cloud Computing	3	2.94	58.82
Compiler Design	1	2.42	48.42
Computer Networks	1	4.82	96.47
CS6551 COMPUTER NETWORKS	3	3.19	63.82
CS6601 - Distributed Systems	1	2.82	56.47
Distributed Systems	1	2.18	43.53
Information Security	2	4.15	82.94

Fig 5.5 Admin page

Hi Welcome, this is admin Page!

Feedback Analysis

Subject code : 32

Subject Name : Advanced Databases

Number of Responders : 6

Overall Average : 2.67 (out of 5)

A) Course Evaluation : 2.70

B) Teaching Evaluation : 2.62

C) Lab Evaluation : --

Report 1

Report 2

Studentwise Report

Course Evaluation : 2.70

Q.No	Questions	Rating Average out of 5	Percentage
1.	The course has developed interest in the subject	2.17	43%
2.	The course has given me a good understanding of the subject	3.00	60%
3.	The course was well organized	2.67	53%
4.	The handouts, assignments and exercises given were adequate	2.17	43%
5.	The workshops, seminars, tutorials and practical were useful	2.67	53%
6.	I have achieved the course outcome No.1(CO1)	3.00	60%
7.	I have achieved the course outcome No.2(CO2)	3.17	63%

Fig 5.6(a) Question analysis page for course evaluation

Teaching Evaluation : 2.62			
Q.No	Questions	Rating Average out of 5	Percentage
1.	The course syllabus was presented clearly to the class	2.83	57%
2.	The lecturer demonstrated his/her knowledge and competence in the subject matter	2.50	50%
3.	The lecturer gives sufficient practices to test my understanding of concepts and principles	2.50	50%
4.	Corrected assignments and tests were made available to the students	2.50	50%
5.	The lecturer was punctual for the classes	2.83	57%
6.	The lecturer is easily available for consultation	3.00	60%
7.	Overall, I would like to rate the lecturer's performance as very good	2.17	43%

Fig 5.6(b) Question analysis page for teaching evaluation

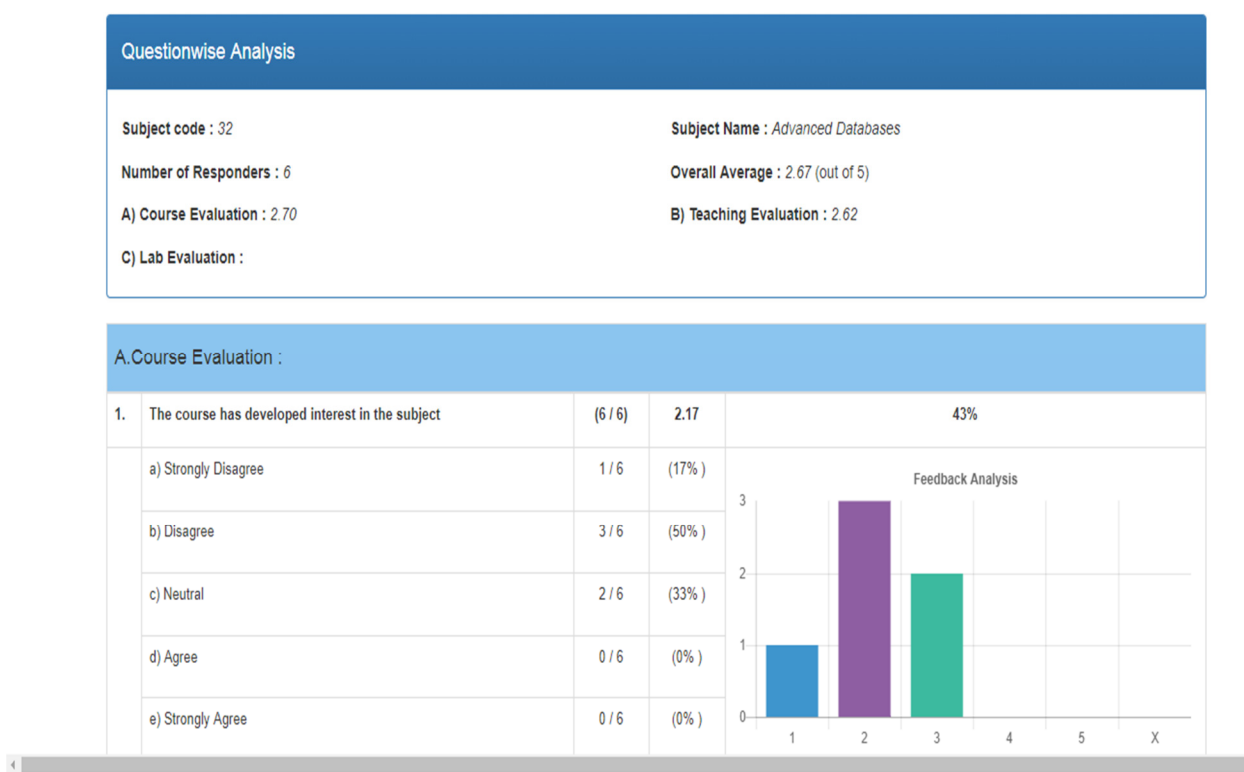


Fig 5.7 Question analysis with Histogram

Studentwise Analysis	
Subject code : 32	Subject Name : <i>Advanced Databases</i>
Number of Responders : 6	
Sl.No	Student name
1	user
2	xyz
3	kumar
4	abc
5	lmn
6	user1

Fig 5.8(a) Student wise analysis

Studentwise Analysis	
Subject code : 32	Subject Name : <i>Advanced Databases</i>
Name of the Student : <i>user</i>	Overall Average : 2.76 (out of 5)
A) Course Evaluation : 2.70 (54.00%)	B) Teaching Evaluation : 2.86 (57.14%)
C) Lab Evaluation :	

Course Evaluation :						
Q.No	Questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1.	The course has developed interest in the subject	0	1	0	0	0
2.	The course has given me a good understanding of the subject	0	0	1	0	0
3.	The course was well organized	0	1	0	0	0
4.	The handouts, assignments and exercises given were adequate	0	0	1	0	0
5.	The workshops, seminars, tutorials and practical were useful	0	0	1	0	0
6.	I have achieved the course outcome No:1(CO1)	0	0	0	0	1
7.	I have achieved the course outcome No:2(CO2)	0	0	0	1	0

Fig 5.8(b) Student wise analysis

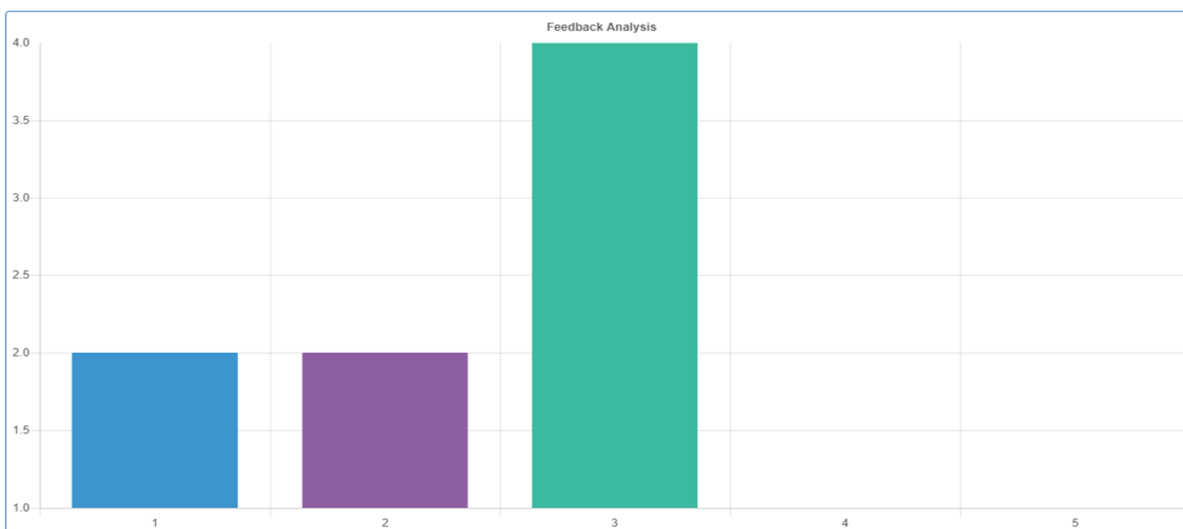


Fig 5.8(c) Student wise analysis with Histogram

Questionwise Analysis

Subject code : 32

Number of Responders : 6

A) Course Evaluation : 2.70

C) Lab Evaluation : --

Subject Name : *Advanced Databases*

Overall Average : 2.67 (out of 5)

B) Teaching Evaluation : 2.62

Course Evaluation :

Q.No	Questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1.	The course has developed interest in the subject	1 / 6 (17%)	3 / 6 (50%)	2 / 6 (33%)	0 / 6 (0%)	0 / 6 (0%)
2.	The course has given me a good understanding of the subject	0 / 6 (0%)	2 / 6 (33%)	3 / 6 (50%)	0 / 6 (0%)	1 / 6 (17%)
3.	The course was well organized	1 / 6 (17%)	2 / 6 (33%)	2 / 6 (33%)	0 / 6 (0%)	1 / 6 (17%)
4.	The handouts, assignments and exercises given were adequate	1 / 6 (17%)	3 / 6 (50%)	2 / 6 (33%)	0 / 6 (0%)	0 / 6 (0%)
5.	The workshops, seminars, tutorials and practical were useful	1 / 6 (17%)	1 / 6 (17%)	3 / 6 (50%)	1 / 6 (17%)	0 / 6 (0%)
6.	I have achieved the course outcome No:1(CO1)	0 / 6 (0%)	2 / 6 (33%)	3 / 6 (50%)	0 / 6 (0%)	1 / 6 (17%)
7.	I have achieved the course outcome No:2(CO2)	1 / 6 (17%)	1 / 6 (17%)	1 / 6 (17%)	2 / 6 (33%)	1 / 6 (17%)

Fig 5.9(a) Question wise analysis for course evaluation

Teaching Evaluation :						
Q.No	Questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1.	The course syllabus was presented clearly to the class	0 / 6 (0%)	2 / 6 (33%)	3 / 6 (50%)	1 / 6 (17%)	0 / 6 (0%)
2.	The lecturer demonstrated his/her knowledge and competence in the subject matter	1 / 6 (17%)	1 / 6 (17%)	4 / 6 (67%)	0 / 6 (0%)	0 / 6 (0%)
3.	The lecturer gives sufficient practices to test my understanding of concepts and principles	1 / 6 (17%)	2 / 6 (33%)	2 / 6 (33%)	1 / 6 (17%)	0 / 6 (0%)
4.	Corrected assignments and tests were made available to the students	1 / 6 (17%)	2 / 6 (33%)	2 / 6 (33%)	1 / 6 (17%)	0 / 6 (0%)
5.	The lecturer was punctual for the classes	1 / 6 (17%)	1 / 6 (17%)	3 / 6 (50%)	0 / 6 (0%)	1 / 6 (17%)
6.	The lecturer is easily available for consultation	0 / 6 (0%)	1 / 6 (17%)	4 / 6 (67%)	1 / 6 (17%)	0 / 6 (0%)
7.	Overall, I would like to rate the lecturer's performance as very good	3 / 6 (50%)	1 / 6 (17%)	1 / 6 (17%)	0 / 6 (0%)	1 / 6 (17%)



Fig 5.9(b) Question wise analysis for teaching evaluation

6. ADVANTAGES/DISADVANTAGES

6.1 Advantages

This paper is beneficial for college use. As well as we implemented in offices, institutions and hotels.

1. Decreases the time consumption
2. Improves Efficiency- It improves efficiency
3. Occurrences of Error is Minimize
4. Decreases the paper and labour
5. Manage the entire process

6.2 Disadvantages

1. It's too tiring to give Computerized Timing.
2. Security Limitations
3. Only Works on Intranet

7. CONCLUSION

This paper is designed for the purpose of reducing students/faculties time and also it reduces the burden of maintaining tremendous amount of feedback given by the students. At the time of report generation various formats of reports are generated according to the users need. In comparison with existing feedback system the new system is efficacious in all slots of its access and it is easy to save each and every record of individual student which was stored in the database.

REFERENCES

- [1] S.R.Bharamagoudar, Geeta R.B., S.G.Totad “Web Based Student Information Management System”, *International Journal of Advanced Research in Computer and Communication Engineering* -June 2013, ISSN : 2319-5940.
- [2] Siddhant Gokule, Rohit Jadhav, Mruganayani Mane, Sanchita Chhajed “An Application to Enhance the Admission Process and Communication between Members of an Institute”, *International Journal on Recent and Innovation Trends in Computing and Communication*- ISSN: 2321-8169.
- [3] Suriyani Ariffin, Ramlan Mahmood, “SMS Encryption using 3D-AES Block Cipher on Android Message Application ”, *International Conference on Advanced Computer Science Applications and Technologies May-2013-IEEE* 978-1-4799-275.
- [4] Balazs Beny o, Balint Sodor, Tibor Doktor and Gergely Fordos “Student attendance monitoring at the university using NFC” *IEEE on computer techonolgy*- June 2010.
- [5] Martin Hellebrandt and Rudolf Mathar “Location Tracking of Mobiles in Cellular Radio Networks”, *IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY*, SEPTEMBER 1999.
- [6] Sandeep Kumar, Mohammed Abdul Qadeer, Archana Gupta, “Location Based Services using Android”, *IEEE-2009*.
- [7] Penghui Li1, Yan Chen, Taoying Li, Renyuan Wang, Junxiong Sun “Implementation of Cloud Messaging System Based on GCM Service”, *IEEE-2013*.
- [8] Miss. Namrata N. Shahade, Miss. Priya A. Kawade, Mr. Satish L. Thombare “Student Attendance Tracker System in Android”, *INTERNATIONAL JOURNAL FOR ENGINEERING APPLICATIONS AND TECHNOLOGY*-ISSN: 2321-8134.
- [9] Fei Shao, Zinan Chang, Yi Zhang, “AES Encryption Algorithm Based on the High Performance Computing of GPU”, *Second International Conference on Communication Software and Networks, IEEE -ICCSN.2010.124*.
- [10] Ramesh Shrestha, Yao alihong “Design of Secure Location and Message Sharing System for Android Platform”, *IEEE-2012 on computer technology.P*