Android based system for student feedback

DivyaLakshmi N [1], Dr. Harish B G [2*],

[1]Department of Master Applications,

University B.D.T College of Engineering, Davangere, Karnataka, India.

[2]Head of the Department (HOD), Department of Master Applications,

University B.D.T College of Engineering, Davangere, Karnataka, India.

Abstract — The manual method of producing the analysis and reports for the student feedback process takes longer to complete. Due to the rapid advancement of technology, the majority of Android applications are available for educational use. The current advancements in android technology with web services have significantly changed the field of creating mobile applications. In this post, we described a method for gathering and analysing student comments that has an easy-to-use user interface. Colleges or other educational institutions could use it to record remarks from students. By valuing and seeking input, faculty and students may both benefit. for academic staff to enhance their teaching abilities. Students can provide their feedback using this application on any Android-based mobile device. Once they submit it, the input will be swiftly assessed, and a report on the feedback may be produced very soon.

Keywords — Students Feedback System, Android, Online Feedback

1. INTRODUCTION

The amount of data handling and processing done now with the use of computers grows daily. Student feedback is regarded as a crucial component for enhancing the teaching and learning process in any educational institution.

The concerns of the students are taken into account, along with institutional policies and procedures about the quality of the information they get, are all part of the student feedback method. This procedure shows why the validation of the learning environment and the students' learning environment have a positive link. In the conventional/existing method, the institute offers the evaluation forms it created. These feedback forms were distributed to the students, who are expected to physically mark their remarks regarding the academics, including the lecturer, practical, assignments, punctuality, comprehension of problem-solving techniques, and many other areas. The faculty or staff then compiles the feedback forms that have been received, and presumably uses an MS

Excel spreadsheet to calculate the total score for each point given in the form, subject, and instructor. The department head is then given the feedback report. The department head will review the feedback with the concerned faculty after receiving it in order to advise them of the necessary remedial efforts to raise academic standards and make up for lower ratings on a particular topic. The current technique takes more time, and data entry personnel run the risk of making mistakes when entering grades into an Excel spreadsheet.

The questions must be developed by the department head, entered into the system, and updated on the web system. After they have been submitted by the department chair, only students can view them and comment. The pupils are expected to submit their grades right away using their Android cellphones. There is no longer a need for a data entry operator because students are providing their information independently, which reduces the chance of inaccurate data feeding. The feedback report will be generated immediately, and the analysis will be finished automatically when students enter their marks. The suggested feedback method is easier to use, takes less time to gather, and allows for error-free feedback analysis [4].

2. RELATED WORK

At the moment, input is gathered on paper with a pen. Despite the fact that employing paper is considered to be a straightforward way, As a result, the procedure becomes significantly more time-consuming and arduous. Under the present system, the single document should not be lost or misplaced, and great effort should be taken to avoid this. To make several paper photocopies for the same purpose, a lot of paper is needed. The biggest disadvantage of this strategy is the extra time and paper required to keep the records.

Rajvee Patel et al. [1] They spoke about the job's feedback management system. Regarding institutional and educational practises, as well as student worries about the breadth of the knowledge they are acquiring, the "Feedback management System" technique focuses on taking all of these factors into consideration. They have created a faculty feedback mechanism so that input may be sent to the college HOD or administration in a straightforward and uniform manner. They use the term "faculty feedback system" to describe the online platform that acts as a service provider and provides faculty input via a student staff interface.

Phani Rama Prasad et al. [2] suggested the Online Student Feedback Mechanism, an automated system for generating input that gives instructors the appropriate feedback. With this technique, students may provide comments online without having to waste time sending letters.

Nikhil H.M. et al. [3], developed Student Input System to make it simple and quick for the college administrator to receive input. Using this method, one may swiftly compile timely student feedback on the professors.

Sivasankari S. et al. [4], technique for analysing student feedback submitted online (OSFAS). By employing comments and categories like good, intriguing, late, interactive, etc., the Online Student Feedback Analysis System (OSFAS), an automated input generating system, delivers the appropriate feedback on the teachers. The major goal of their approach is to swiftly save time while minimising human effort..

3. METHODOLOGY

The fundamental goal of the suggested system is to create a paperless system, which involves reducing the usage of paper. The suggested approach is put into practise using android technology. Since the data from the feedback system would be maintained centrally and conveniently accessible as needed, it will be feasible to generate accurate reports in addition to synchronizing the data in the right way.
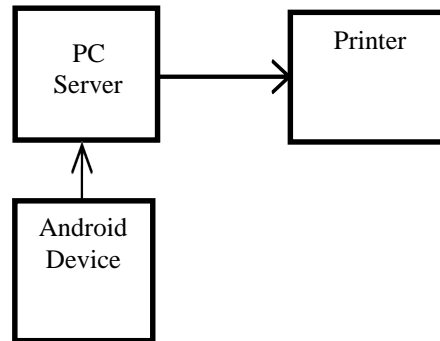

Figure 1. Top Level Block Diagram of System

A. System Description

The way the system operates is as follows.

- **Student Login**

The USN and password of the students will be required to log in. Once logged in, the student can leave feedback for reputable organizations like teachers of a certain year, class, semester, or course. The relevant data will be maintained on the server (PC) serving as the primary data repository once the feedback has been sent.

- **Admin Module**

The administrator is in charge of creating special IDs and passwords for the pupils. Along with their courses and teachers/instructors, he or she can add related entities, and vice versa. The administrator has the authority to confirm the identity of the students who will provide feedback.

4. RESULTS AND DISCUSSION

A. Admin side

Figure 2. Admin Login

Through this window (figure 2) The system administrator may log in. He may add the courses, professors, and feedback questions after logging in.

Figure 3. Add the teacher

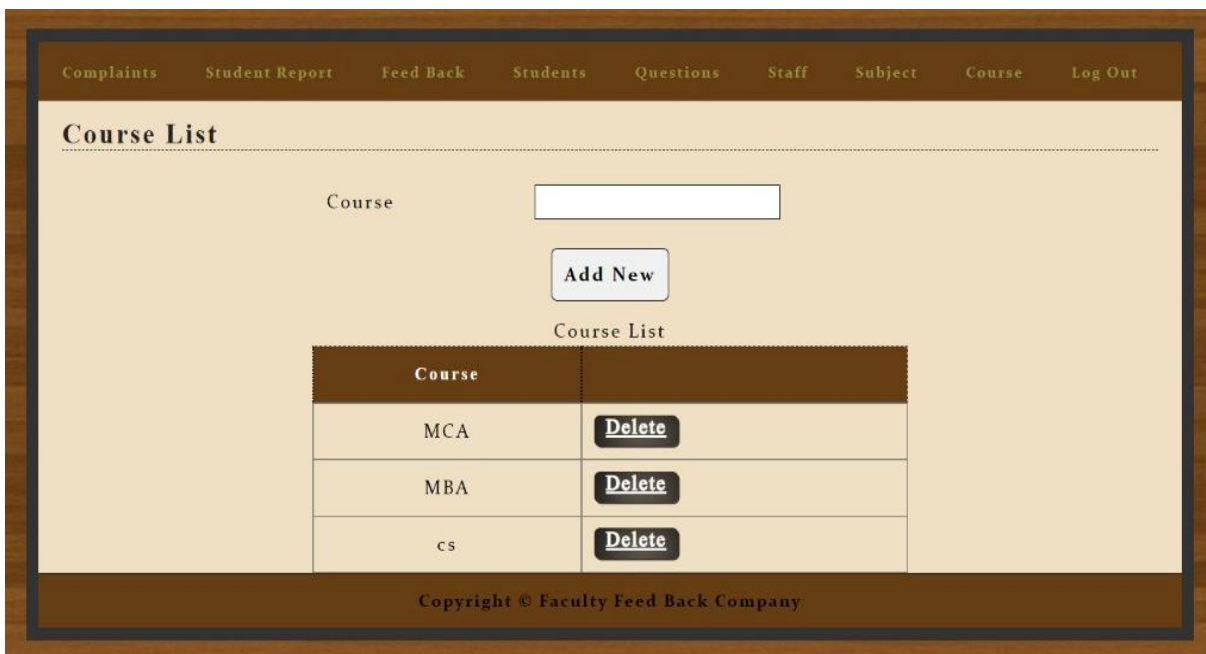The administrator must enter the teacher's data (figure 3) into the system after logging in.

Figure 4. Add courses/subjects

The names of the courses (figure 4) for which the feedback is to be collected must be added by the admin after the teacher's information.
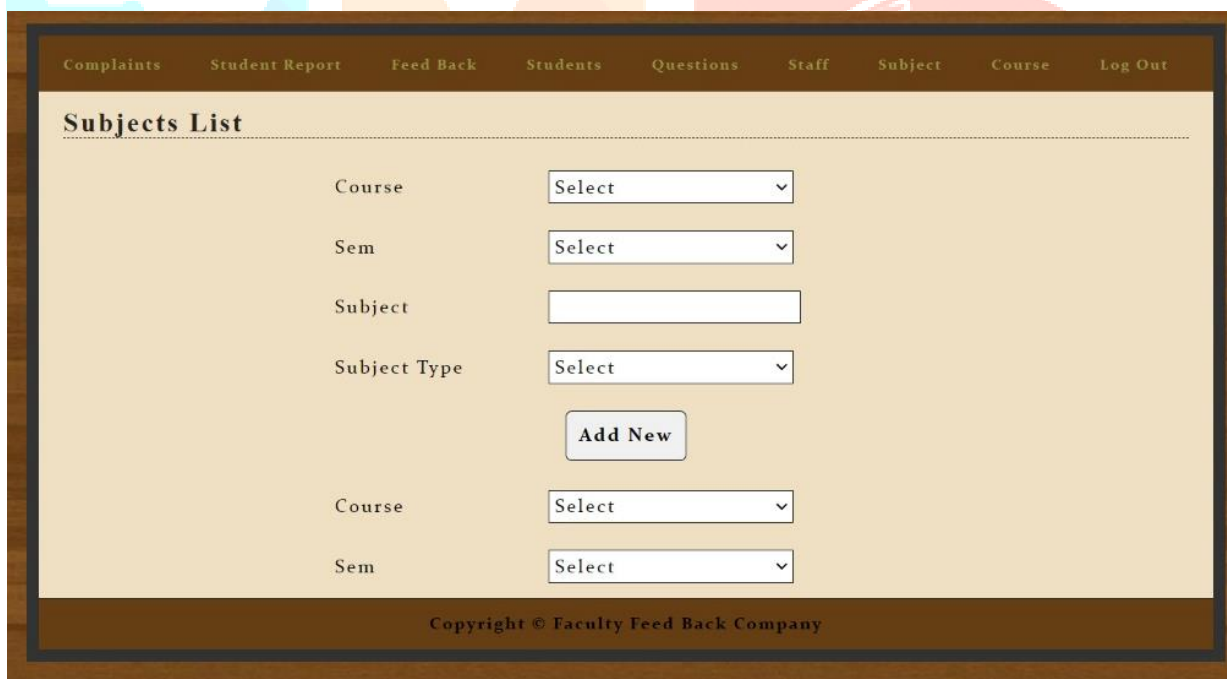
Figure 5. Adding Subjects

Once the admin is entering the teacher information and all the courses, he now needs to assign the subjects (figure 5).
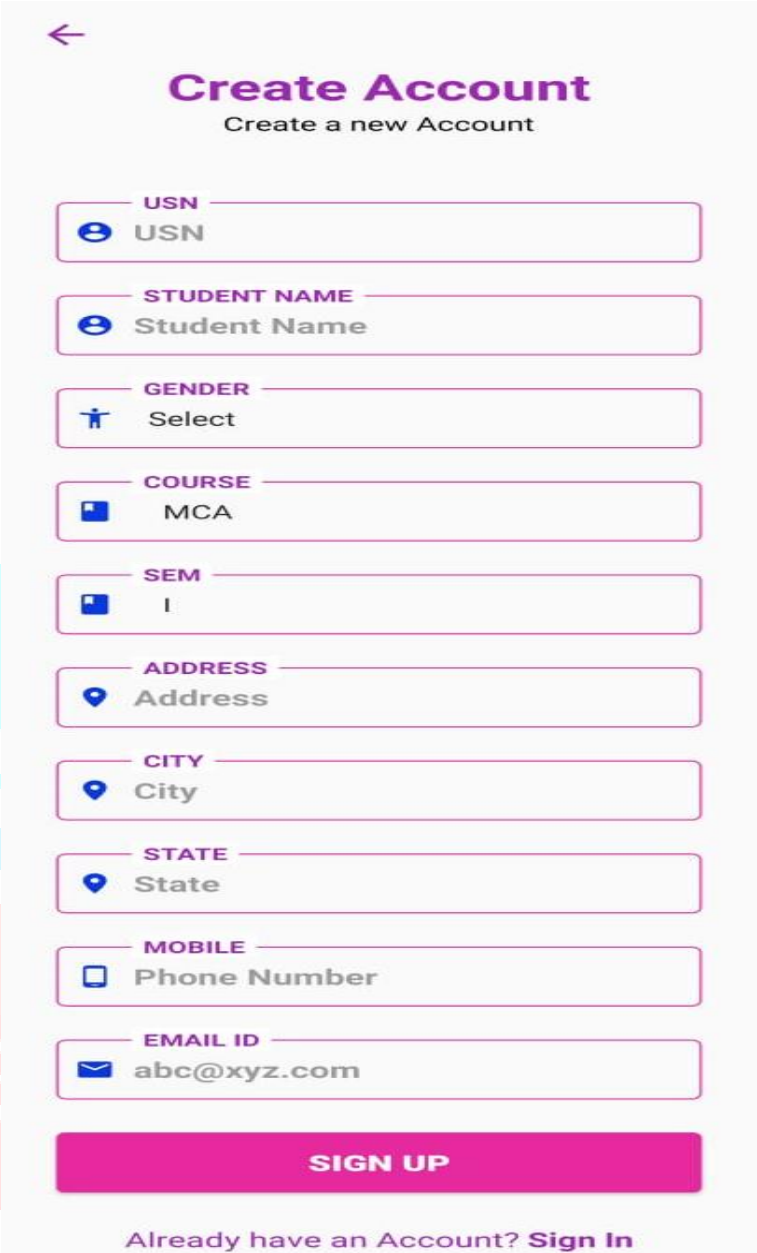
Figure 6. Add the questions

Once the admin is completing the process of adding theteacher, course name and questions of feedback.

B. **Student side:**

Figure 7. Student Registration

While doing the registration the student has to use his personal information like USN, Name, Gender , Course, City, E-mail id, Phone no. After filling the required information (figure 7), student can complete his/her registration. After completing the signup procedure.
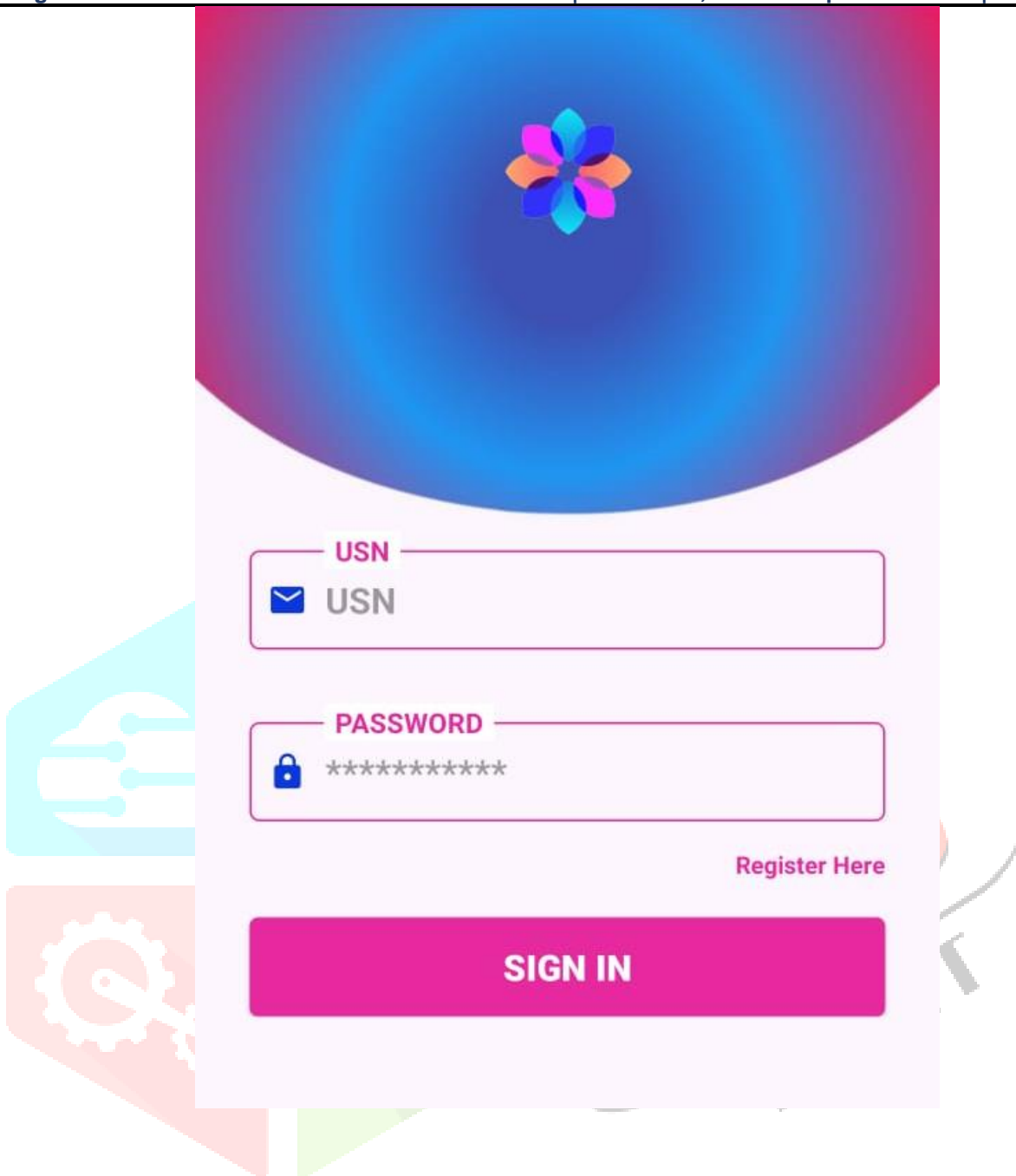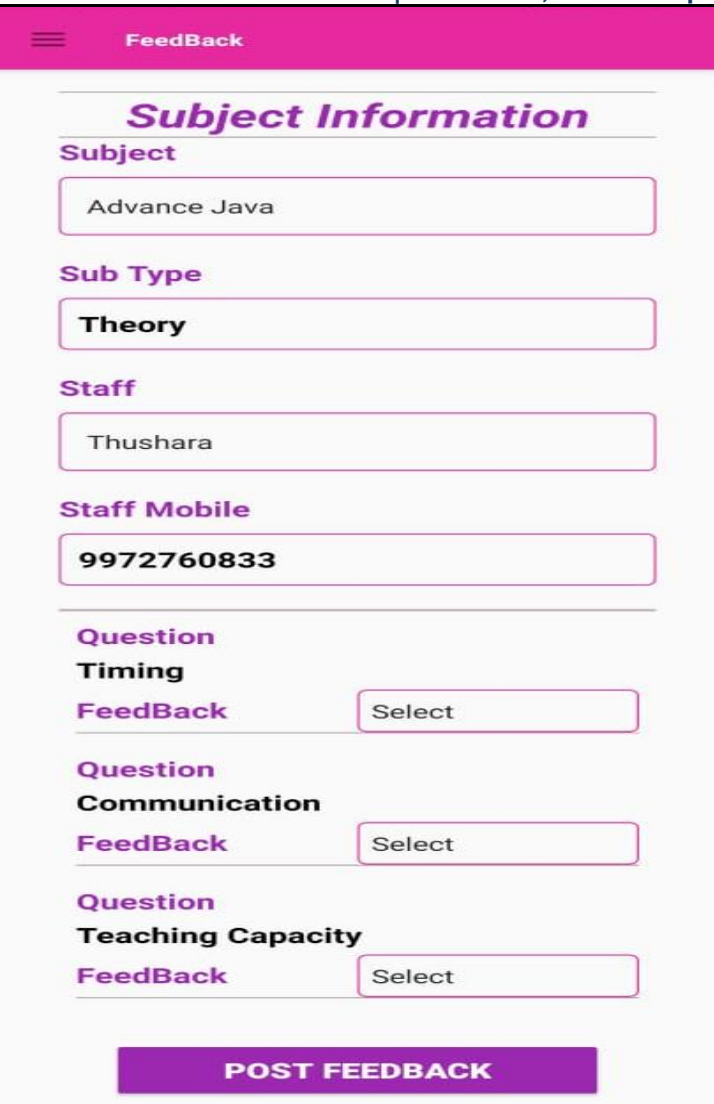
Figure 8. Student Login

Student can login using USN and Password that is given while registration time (figure 8).

Figure 9. Feedback submission

5. CONCLUSION

The "Tutor Assessment Supervision" application is designed by ASP.Net using C# and android as its front end and SQL Server database as its developing tools. This app is used by the institution and students to manage the student feedback based on the criteria of lecturing to their students under various departments. This application has secure logging into the application for the head of the department, staffs under that department and students so that the data within the application is safe and secure. It avoids unauthorized access to the application. Here using this application students give his feedback and complaints about their faculty based on certain criteria so that which is viewed by their dept. head and admin to track his activities and improve his quality of teaching.

Thus, helps the students and faculties to use effectively and efficiently which reduces the time in retrieving the info on time quickly.

6. REFERENCES

[1] Rajvee Patel, Omkar Agrawal, Yash Gangani, Ashish Vishwakarma, "College Feedback System", International Research Journal of Engineering and Technology, Volume: 05 Issue: 01, pp. 1351 – 1353, 2018

[2] Phani Rama Prasad, Chella Sailatha, Gangapratima V, Harika D, Harika V, "COLLEGE STUDENT FEEDBACK SYSTEM", International Journal For Technological Research In Engineering, Volume 4, Issue 9, pp. 1686 – 1688, 2017

[3] Nikhil H.M, Varada Sunitkumar, Shruti S Basapur, R. Vinil Shah, "Design and Implementation of Student Feedback System at Education System", International Journal of Engineering Research in Computer Science and Engineering, Vol 5, Issue 4, pp. 563 – 565, 2018

[4] Sivasankari S, Srimathi. P. S., Ramya S, Dr. G. Fathima, "Online Feedback System for Educational Institutions for Better Evaluation of Faculty's Performance Using Semantic Web (SW) Technology", International Journal of Innovative Research in Science, Engineering and Technology, Volume 5, Special Issue 2, pp. 275 – 279, 2016

[5] Divyansh Shrivastava, Shubham Kesarwani, Amol K. Kadam, Aarushi Chhibber, Naveenkumar, Jayakumar, "Online Student Feedback Analysis System with Sentiment Analysis", International Journal of Innovative Research in Science Engineering and Technology, Vol. 6, Issue 5, pp. 8445 – 8451, 2017