SMART FEEDBACK SYSTEM

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ABSTRACT

The process used to collect the student's feedback is manual and takes more time to complete its analysis and report generation. As technology is changing at fast rate, maximum numbers of android application are available for educational purpose. In recent years the android technology with web services has brought many drastic changes in the mobile application development field. In this paper we proposed a system which provides a simple interface for collection and analysis of student's feedback. It can be used by educational institutes or colleges to maintain the records of student's feedback. Valuing and asking for feedback has recognized benefits for both faculty and students. For faculty to develop and improve teaching skills. Using this application, students can fill their feedback through any android based mobile. Once they submit it, their feedback will be analysed quickly and feedback report can be generated within very short span of time.

I.   INTRODUCTION

In today's world data handling and processing by computer aided tools is increasing day by day. In any education system Students feedback is considered as very important aspect for improving the teaching learning process. The Student feedback approach is all about institutional practices and processes that are taken into consideration, the students concerns of the level of knowledge they receive. This process explains that there is a good relationship between the students learning environment and the validation of learning environment. In the traditional/existing system, the institute provides the feedback forms developed by institute itself. These feedback forms were distributed among the students and the students are supposed to mark their feedback manually about the academics including lecturer, practical, assignments, punctuality, knowledge of problem solving capacity and many more. The submitted feedback forms are then collected by the faculty or staff and the overall grade for each point mentioned in the form, subject and each teacher is calculated probably by using the MS excel sheet. The feedback report is then handover to the Head of department. After receiving the feedback, Head of the department shall discuss it with the concern faculty and inform them regarding the necessary corrective actions to improve the academic standards and rectify the lower grades about specific point. Such existing system is more time consuming and there is also the possibility of making the mistakes by data entry operator while feeding the grades in excel sheet. In the proposed methodology, the Head of department has to prepare questions and need to add them to the system, then he need to update these questions to the online system. Once they are uploaded by Head of the department then and then only students are able to view and give their feedback. The students are expected to enter the grades directly with their android mobile phone. As students are entering their feedback at their own, hence there is no need of data entry operator which will further reduce the possibility of wrong data feeding. As students are entering their grades, the analysis will be done automatically at the back end and the feedback report will be generated automatically. The proposed is feedback system is simpler and takes less time to collect and complete the analysis of feedback without any mistake. The paper is organized into four sections. Section II explains the existing systems/tools available for taking the feedback. Proposed method is presented and demonstrated in section III. In section IV, the results and snaps of the system are demonstrated.

II.   RELATED WORK

In the existing system is feedback is taken with the help of pen and paper. Although the use of paper is considered to be a simple one, but this makes the task more tedious and time consuming. In this existing system, utmost care should be taken that the single paper should not be lost or misplaced. Generation of large number of paper photocopies for the same purpose requires a large amount of paper. The major concern about

this method is that; this system is more time consuming and consumes more papers to keep the records. In their work explained the Feedback management System. The 'Feedback management System' approach is all about institutional and educational practices and processes that are taken into consideration, the student's concerns of the level of the knowledge they receive. They have developed faculty feedback system to provide feedback in an easy and consistent manner to the college HOD or principal. They call it faculty feedback system which delivers via student staffs interface as online system which is acting as Service Provider. Proposed the Online Student Feedback System which is an automatic feedback generation system that provides the proper feedback to the lecturers. Using their system student can give feedback in online system without wasting his time in writing. Developed Student Feedback System to provide feedback in an easy and quick manner to the college principal. By using their system one can take fast feedback about the faculty by students on time. Proposed Online Student Feedback Analysis System (OSFAS). The Online Student Feedback Analysis System (OSFAS) is an automatic feedback generation system that provides the proper feedback about the teachers by using comments and categories like good, interesting, late, interactive, etc. The main aim of their system is not only to save time but also to decrease human efforts.

III.   METHODOLOGY

The main intention of the proposed system is to reduce the use of paper i.e. to develop the paperless system. The proposed method is implemented on the android technology. The data collected through the feedback system will be centrally stored and can be retrieved efficiently as and when needed, hence along with proper data synchronization, proper reports generation is also possible.
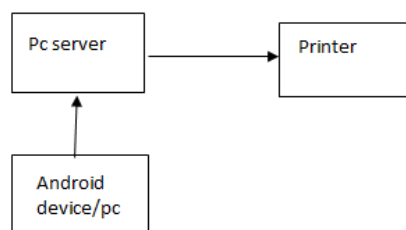

Figure 1

The System will work the as follows.

• **Student Login**:-The students will receive one time password (OTP) for registration at the initial step. This OTP will help us to locate the proper student and authenticate them. Once the student is logged in, he/she will be able to give the feedback for the respected entities like year, class, semester or course teachers. Once the feedback is submitted, the related data will be stored to the server (PC) that will works as the one containing data centrally.

• **Admin Module**:-The admin is be responsible for generating unique ID's and one time passwords for students. He/she is able to add relative entities along with their courses and teachers/instructors or vice versa. The admin has rights to authenticate the students those are going to give the feedback. B. Flowcharts the functioning of the system can be well understood by the flowcharts. There are four flowcharts of the proposed system namely:

• Flowchart for Admin module

• Flowchart for student module

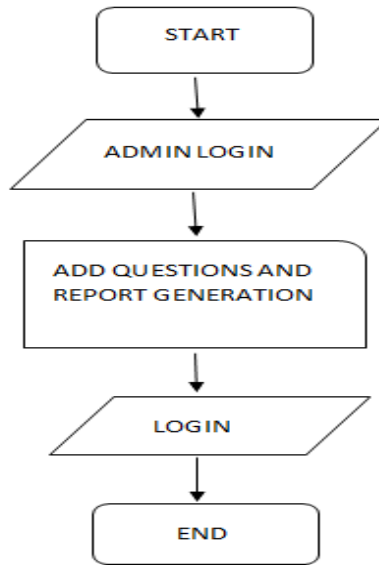• Flowchart for server

• Flowchart of overall system

Figure 2

Through the Admin login (figure 2), one can create the teachers profile; add course/subject and mapping of teacher with the courses/subject. The Admin can also add the question on which the student's feedback can be gathered and analysed. The final analysis of the received can also be done by the admin through his/her login.
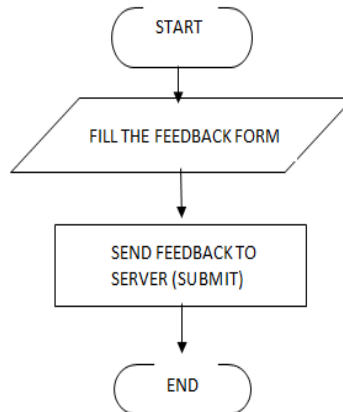

Figure 3

Through the students module (figure 3), the students can login in to the system using the token (password) received by admin. Once the student logs in the system they have to mark their feedback upon the question asked/set and the multiple options available.
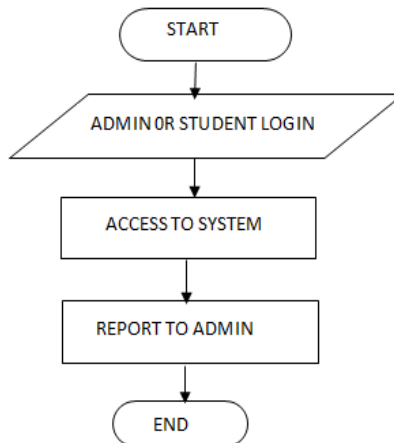
Figure 4

Above flowchart (figure 4) mentions the steps that are carried out at the server for generating the feedback. Initially the when students are registering for the feedback then token is generated. Using that token students can log in into the system then server has to authenticate them. The authentic users only allowed for giving feedback.

• Flowchart of overall system

The overall flowchart (figure 5) of the system explains the detailed procedure and steps involved on the feedback process. As mentioned earlier, the admin has to create the questions and do the teacher and course/subject mapping. Admin also needs to create the tokens/passwords for the students. With the token provided by admin, students can log into the system. The student's login has to be authenticated by admin. After login student are supposed to enter the roll number, select the department, class, subject and the mark their feedback.
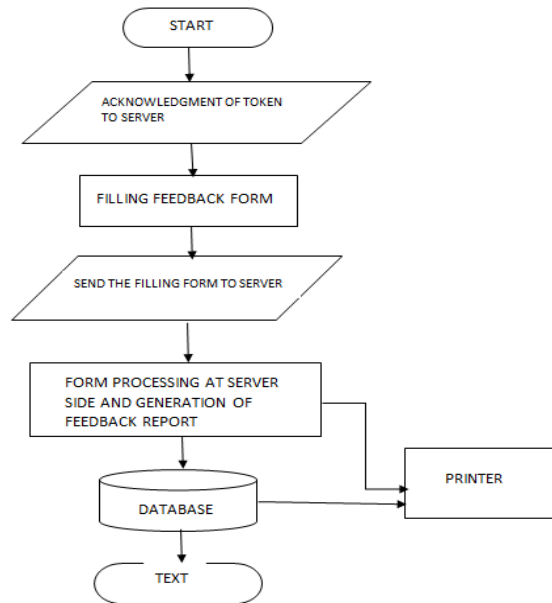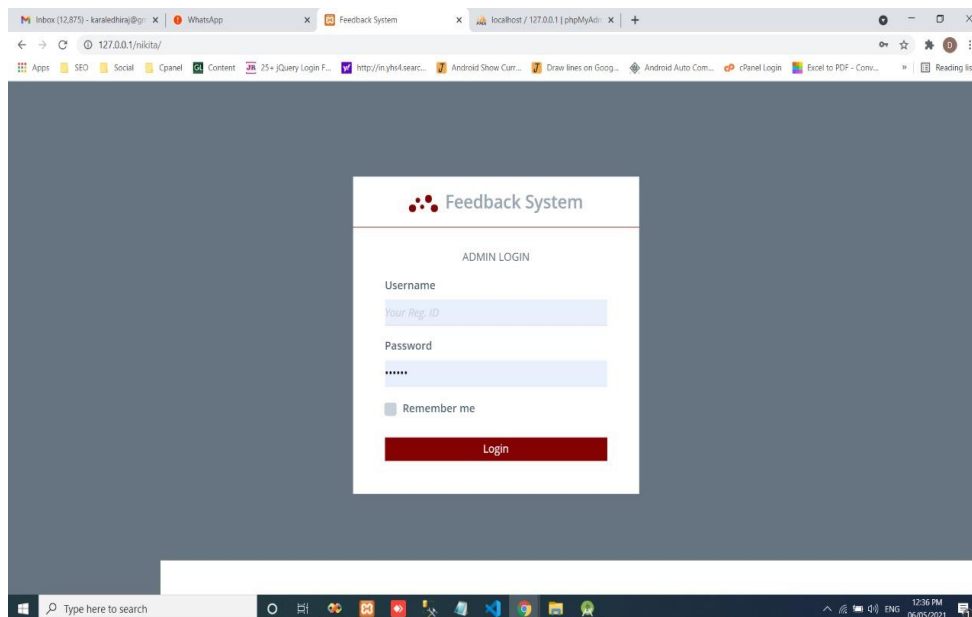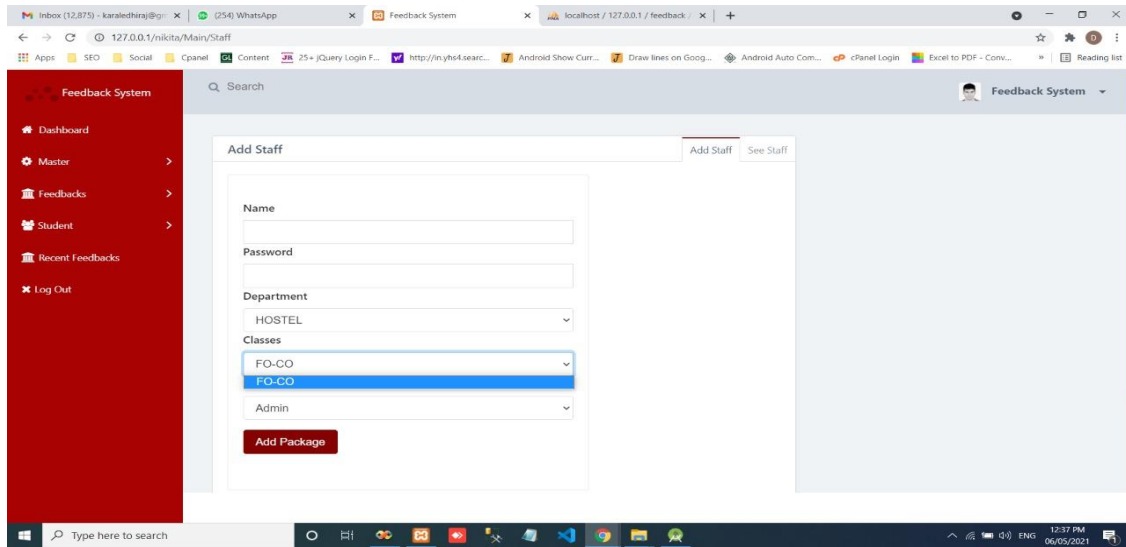

Figure 5

IV.   IMPLEMENTATION
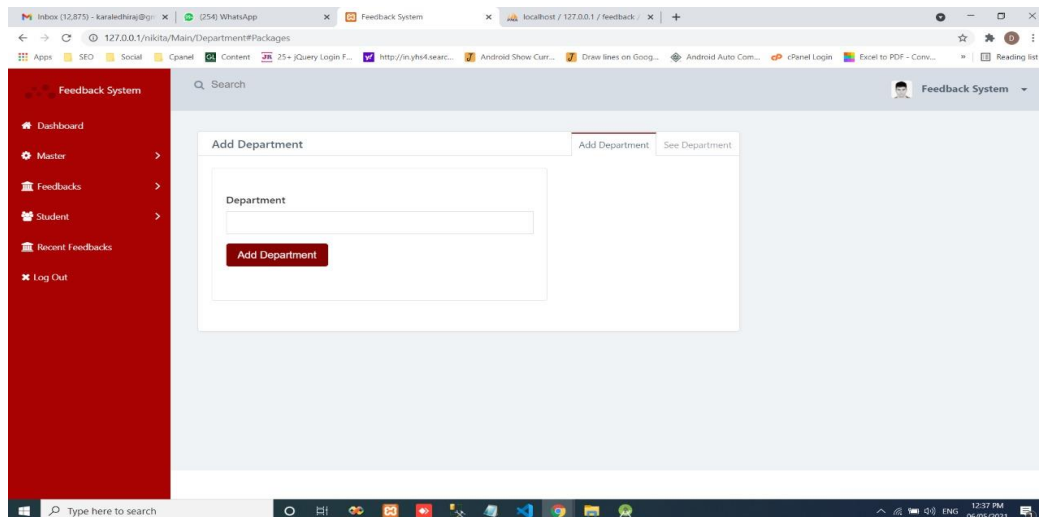
1. Login page

Through this window the admin can login into system. After logging in he can add the courses, teachers and questions of feedback.
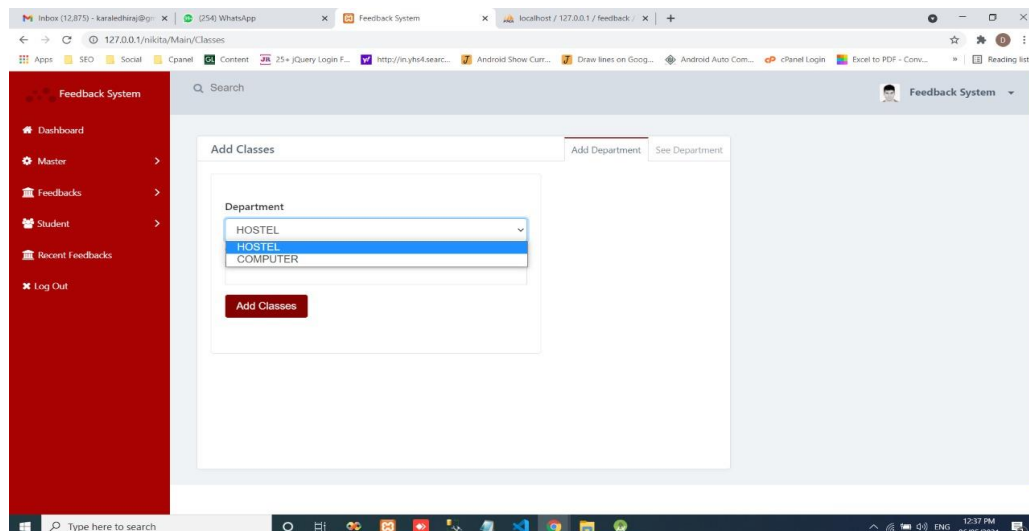
2. Addition of staff

Once the admin is logged into the system, then he has to add the teacher's information into the system.
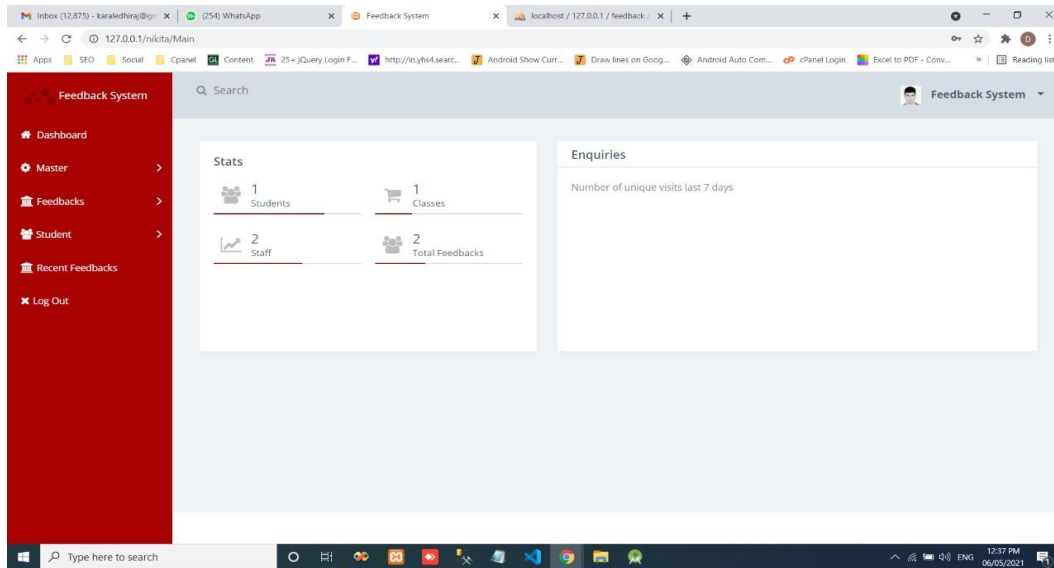
3. Department section

After adding the teacher details, the admin need to add the names of courses, department for which the feedback is to be taken.

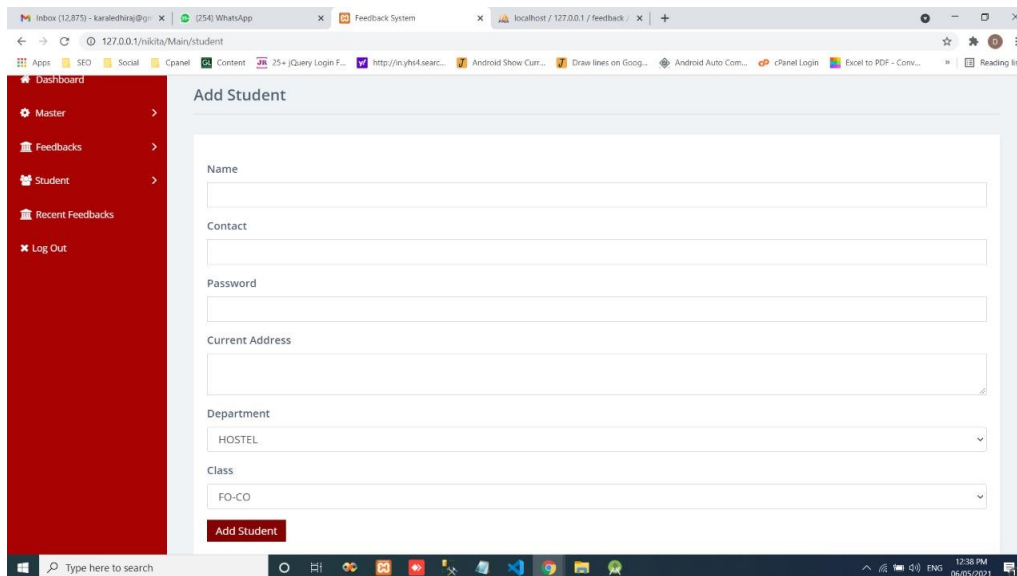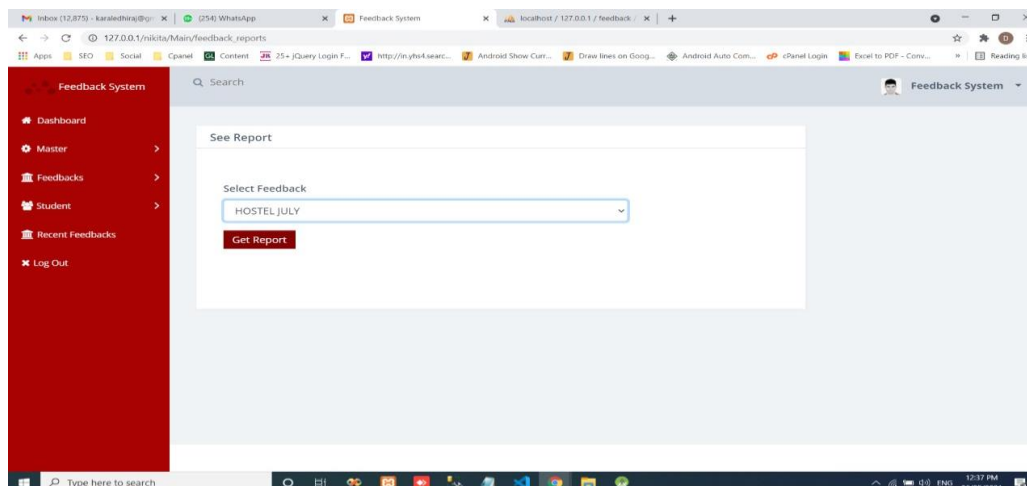## 4. Modification page

5. Dashboard

All the categories are shown on the main page that is the dashboard of the site.

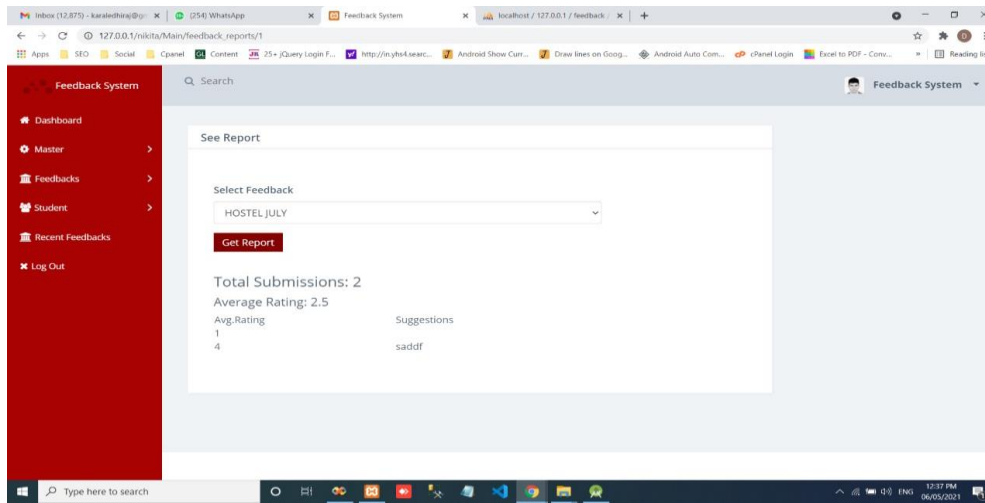## 6. Student information section

This section is helpful for the staff where the student information is stored.
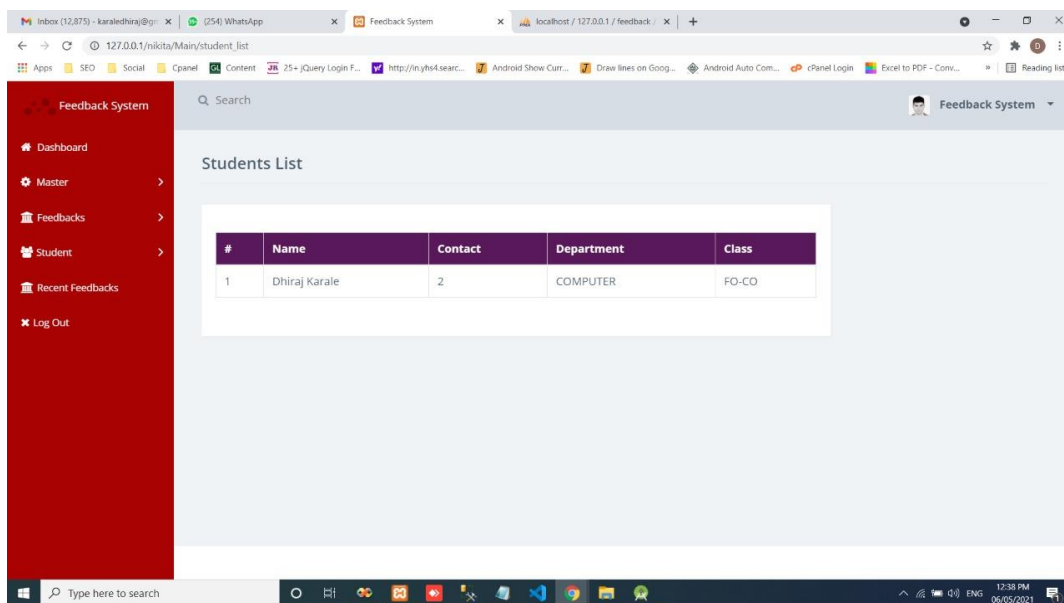
7. Getting result

Here is the page where admin can track the report according to the departments or categories.

8. Final report section

After filling the feedback form here is the final report where the admin have report according to the categories and departments.

9. Student list

Here is the page where the final list of the student who submitted the feedback is tracked by admin only.

V.   CONCLUSION

The traditional system to collect and analyse the student feedback is more tedious and time consuming process. With the android based student feedback system we can collect the student's feedback from any android mobile i.e. feedback collection is very simple and feedback report will be made available directly after analysis of feedback data.

VI.   RESULT

This project is designed for the purpose of reducing the lecturer's time. To reduce the burden of maintaining a huge number of records of students. At the time of feedback generation, it applies formulas for generating feedback on a particular subject. After that, it will display the whole record sheet to the staff when the staff will login in the system. As for the comparison with Manuel feedback or the existing feedback system, the new system is an easier way to manage whole things in a particular manner. As per the existing system, it is a very easy process to save each and every record of an individual student by the use of a database

VII.   REFERENCES

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