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DEVELOPMENT OF STUDENT FEEDBACK APPLICATION FOR ANDROID PLATFORM

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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 a fast rate, maximum numbers of android applications are available for educational purposes. 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 that provides a simple interface for the 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 in their feedback through any android based mobile. Once they submit it, their feedback will be analysed quickly and a feedback report can be generated within a very short period.

Keywords: Student Feedback Application, Online feedback, Android, Mobile Application

1. INTRODUCTION

The "Student Feedback Application" has been developed to overcome the issue in the manual system. The software is designed in such a way to overcome the difficulties faced by the existing system. This app is made for the specific necessity of the college to carry out the systematic operations efficiently. Designed app is user friendly, no prior knowledge is needed to use it. This app leads to a safe, error- less, calculable and good management system. Every Student Feedback Application has different Student needs. The app is designed according to exclusive student management that are required for managerial purpose. It is designed to guide in systematic planning and will ensure that your college is accounted with proper information and details of goals. The system will permit you to efficiently handle resources. This app provides the pupil to give feedback on teaching of the professor. As it facilitates the student to rate the teaching from 1 to 5, allows them to give suggestions on the working system of the institution and the different facilities. These apps deliver feedback via a student teacher interface. It provides a final report of the feedback by getting suggestions from students. The app provides a rating for a particular faculty of a specific semester. This helps the management to make decisions about the performance of the lecturer.

2. RELATED WORK

Survey of the existing systems

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, 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 a 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.

Limitations of the existing system

1. It is quite time-consuming as the student has to write down the answers to the question.
2. As students' handwriting differs it is sometimes difficult for the faculty to understand what they had written.
3. There are high chances of data loss.
4. It is expensive as we require many printouts.
5. It is very tedious to handle the data as it may get wet or damaged.
6. In the handwritten process, there is a lack of security.

We have done the analysis of 10 research paper authored by different author based on feedback application after the complete analysis we had designed our Student Feedback Application by using Kodular application and Firebase for database.

3. METHODOLOGY

The main intention of the proposed system is to design the digital system. The proposed method is implemented on

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the Kodular and firebase app. The data collected through the feedback system can be retrieved by exporting the JSON file which opens in Microsoft Excel by default. In the designed system Student Feedback System, the registered students can generate the feedback anytime anywhere by using their credentials. The feedback generated is stored in the database which can be accessed by the principal, administration, and authorized faculty member. This is timesaving and also effortless.

The administration head can access the feedback reports at anytime and anywhere. By using this application, students can generate feedback reports easily without any higher authority. This app guarantees the security of the feedback reports. With this app, we can provide fast feedback by the students on time. With this user can systematically send their feedback conveniently and efficiently.

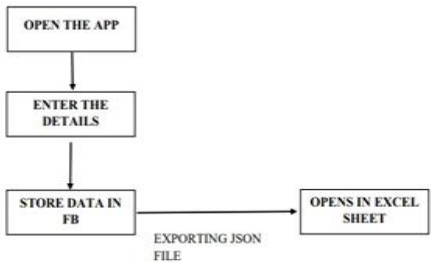


Figure 1 Block diagram of the system

System Description

It has 3 main modules (the people who have accessibility):

Admin

The admin will maintain the entire administration and he can view the final feedback report.

Students

A student gives feedback about their particular department (BCA and B.Sc. IT) staff and also messages and comments about their overall performance.

Management

They can view the comments and ratings given by the students. They can view the final report feedback.

Algorithm

a. Enter the login credentials and press login.

b. Select the branch from the two options (BCA, B.Sc. IT) provided and presses next.

c. Select the year and the semester from the 3 options provided and click next.

d. Enter the 4 subjects of the particular semester and click next.

e. Give the response to the particular set of questions by selecting either yes or no and after completing the questions select next.

f. Rate the experience by answering the particular questions by selecting from 5 options provided under each question.

g. Type your suggestions for the facilities mentioned and click submit.

h. After submitting the response click on the "click here" button for submitting another response or press the back button to exit the app.

Flowcharts

The functioning of application can be clearly understood by the flowchart as it is the diagrammatic representation of it. The flowcharts included are:

Flowchart to access app

The following flowchart mentions the step of how to access the application for generating feedback.

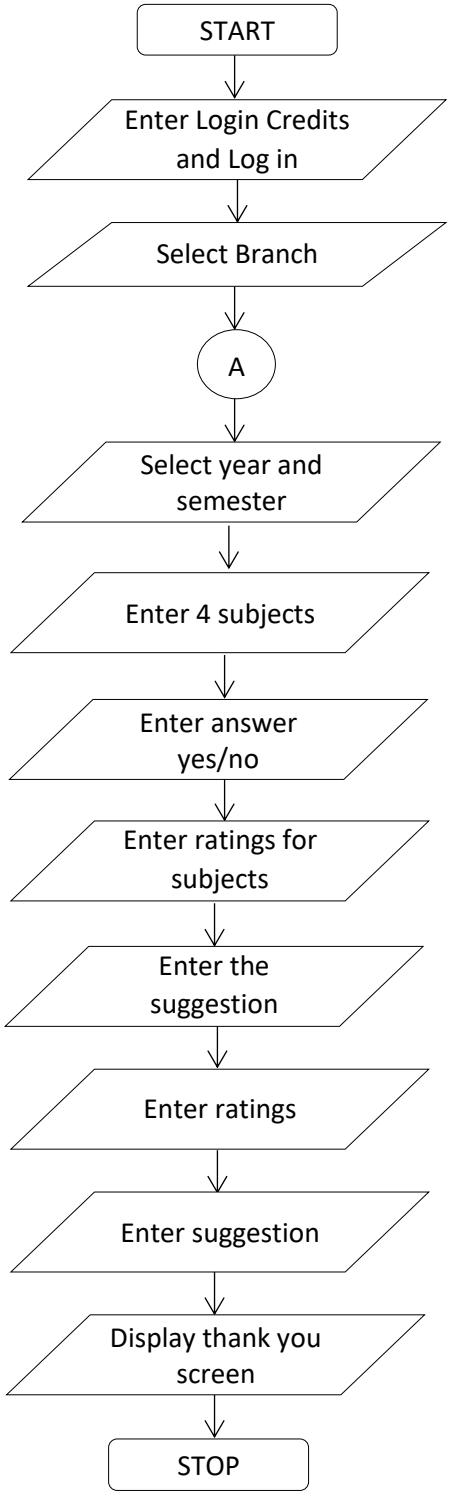


Figure 2 Flowchart of steps to access app

Flowchart that shows working of overall system

The following flowchart displays the complete detailed working of the system:

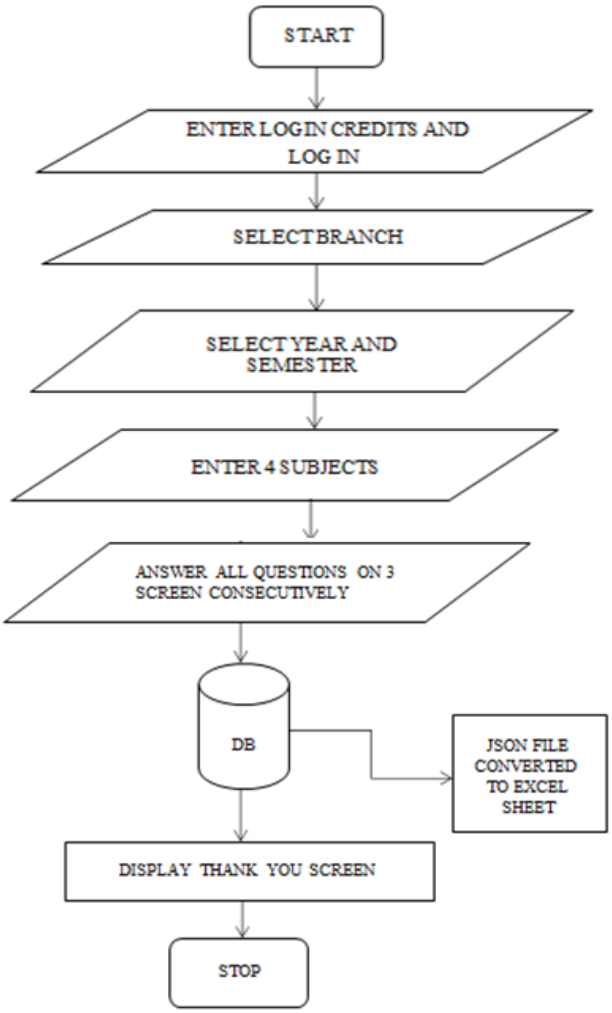


Figure 3 Flowchart of overall System

Flowchart of app that will be displayed on screen:

The following flowchart displays the way in which the application will be displayed on screen:

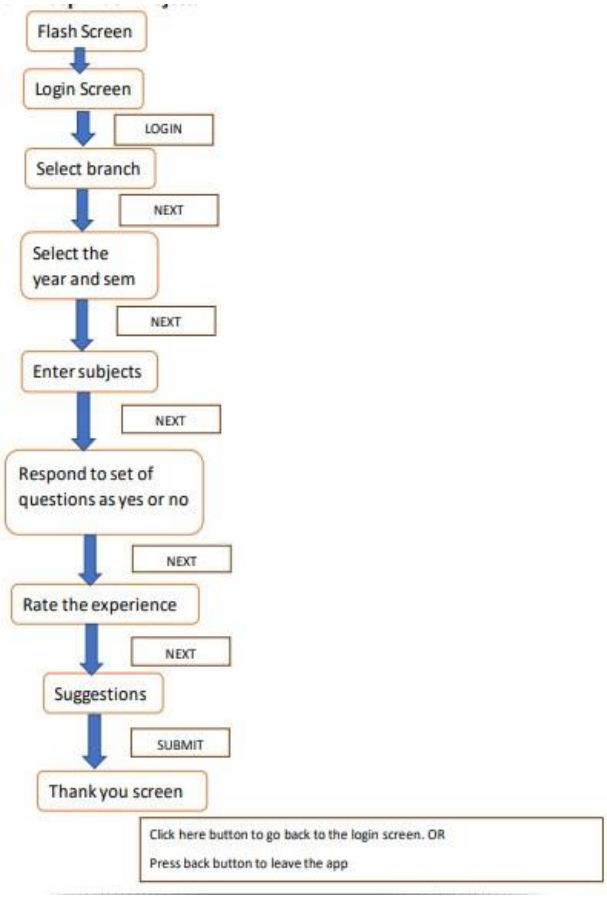


Figure 4 Flowchart of app to be displayed on screen

4. RESULTS AND DISCUSSION

Splash Screen



Figure 5 Splash Screen

Login screen



Figure 6 Login Screen

Through this screen the user will enter his details i.e., Raisoni Email Id and password and will be able to access the control screen.

Select branch



Figure 7 Select branch screen

Through this the user need to select one branch for either BCA or BSc.IT and then click next to go to new window.

Select semester and year



Figure 8 Select year and semester

Through this screen the user selects the year and semester.

Enter subject:

In this screen the user needs to enter the 4 subjects of the particular semester.

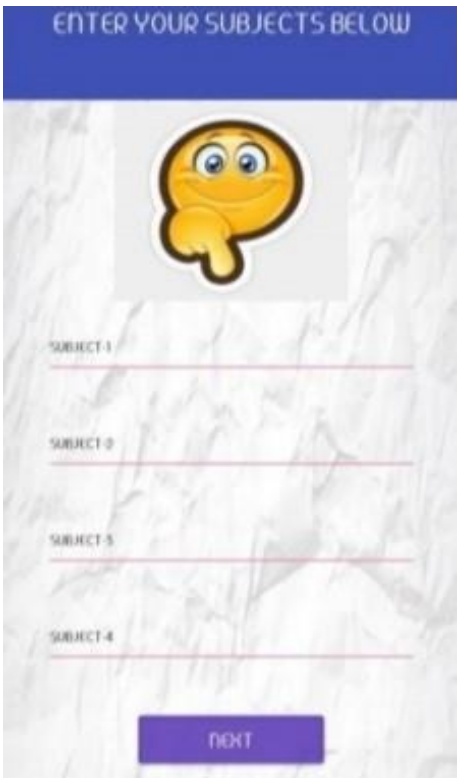


Figure 9 Enter subject screen

Questionnaire screen

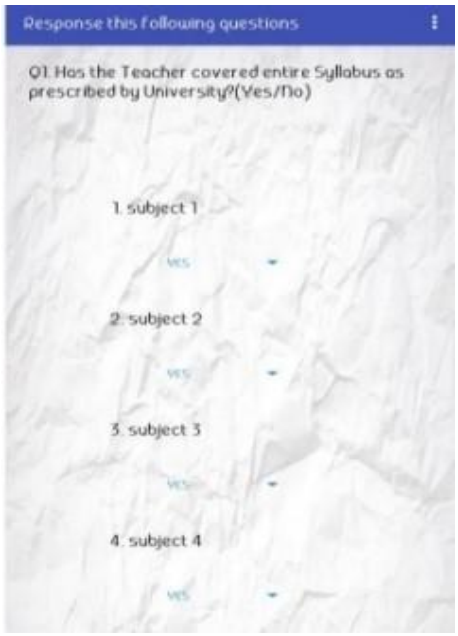


Figure 10 Questionnaire Screen 1

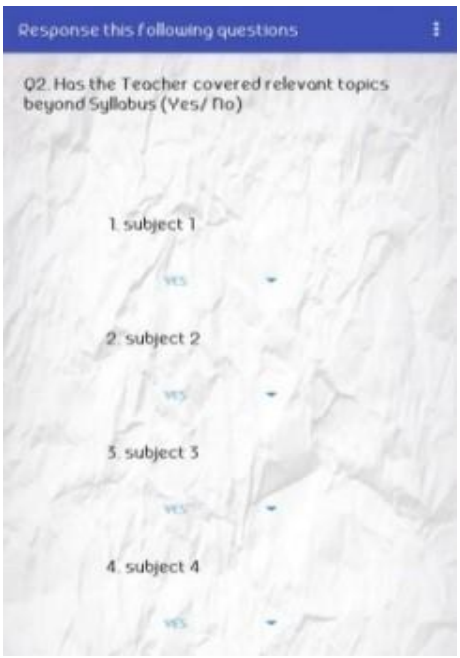


Figure 11 Questionnaire Screen 2

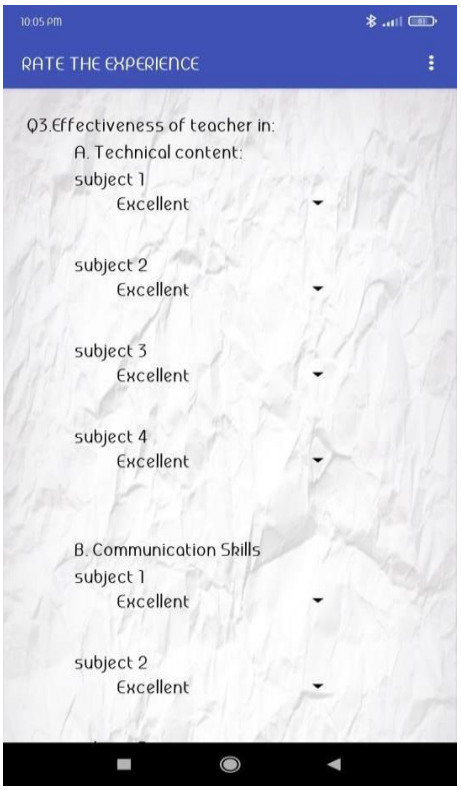


Figure 12 Questionnaire Screen 3

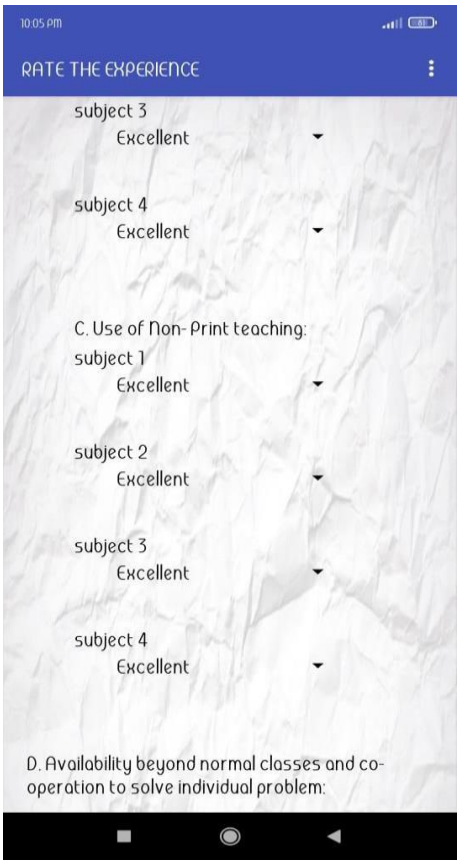


Figure 13 Questionnaire Screen 4

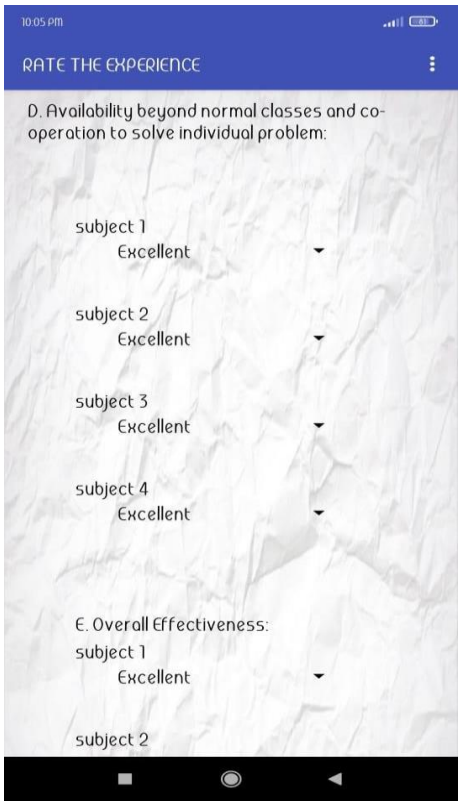


Figure 14 Questionnaire Screen 5

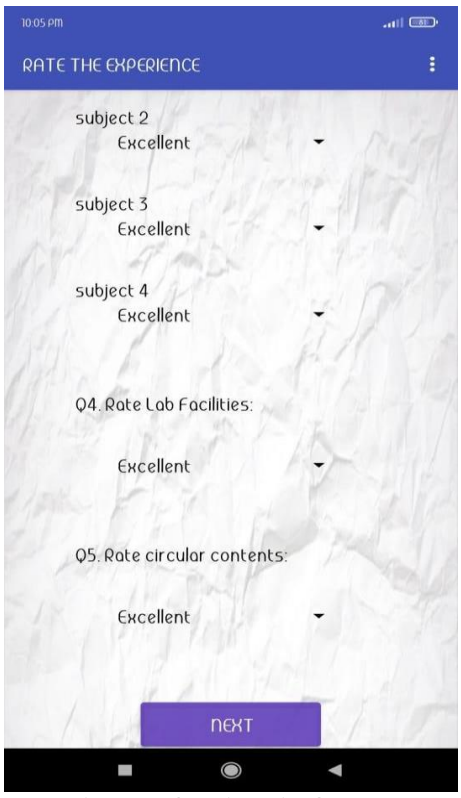
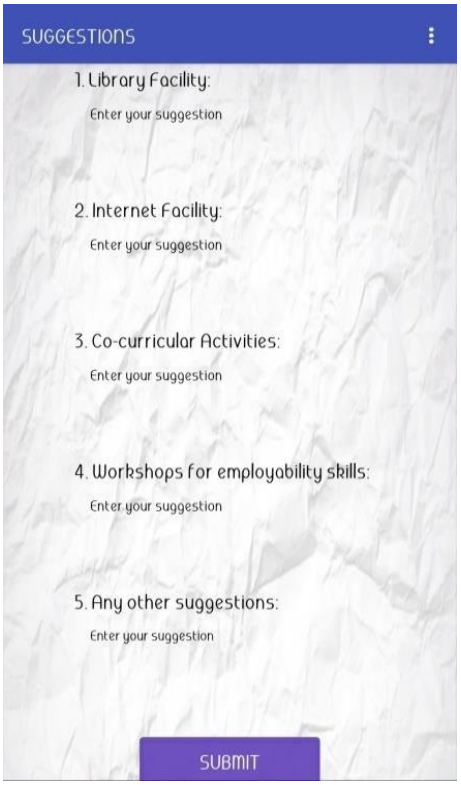


Figure 15 Questionnaire Screen 6

Through this screen the user answers set of questions which are important for feedback generation. The questions asked in the feedback app are:

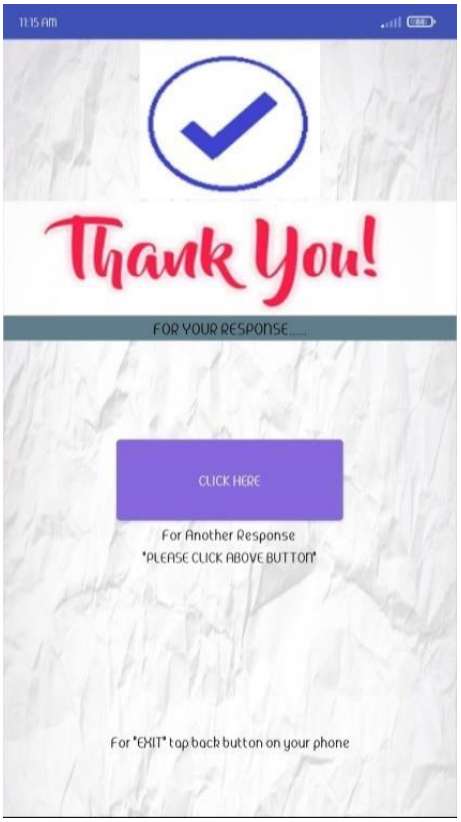
- Knowledge about the subject.
- Knowledge about the topics of the syllabus
- Effectiveness of teacher based on technical content, communication skills, non- print teaching.
- About lab facilities and circular contents.

Suggestion screen



Through this screen the user can suggest some suggestions based on their experience throughout their semester.

Thank you screen



Once the feedback is recorded then the thank you screen is displayed and to submit another feedback one can click on click here or back button to exit.

5. CONCLUSION

This is the student feedback web application for providing the facility to them to give feedback about their faculties and the students can use their login ids to give the feedback. The quality of education may be increase using the feedback process. The work flow of this application is secure and properly maintains the feedback in the database. Normally in conventional system we use maximum manual applications. It consumes lots of paper. The management can view the details of the college. This system is totally user friendly and timesaving. All the modules are designed in a way that a layman can understand the system very easily. Student/ college can reach the place where they want to reach in a very minimum amount of time.

6. ACKNOWLEDGEMENT

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