An Industry-Oriented Mini Project

"STUD-FEEDBACK APPLICATION"

Submitted in Partial Fulfillment of the Academic Requirement for the Award of Degree of

BACHELOR OF TECHNOLOGY

In

Computer Science & Engineering

Submitted

By

B.MEGHANA	**(17R01A0504)**
R.MANISHA	**(17R01A05G2)**
K. VINEESHA	**(18R05A0504)**

Under the esteemed guidance of

Mrs.G.Vani

(Associate Professor)

CMR INSTITUTE OF TECHNOLOGY

(Approved by AICTE, Affiliated to JNTU, Hyderabad)

Kandlakoya, Medchal Road, R.R. Dist., Hyderabad.

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(Approved by AICTE, Affiliated to JNTU, Kukatpally, Hyderabad) Kandlakoya, Medchal Road, Hyderabad.

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CERTIFICATE

This is to certify that an Industry oriented Mini Project entitled with: "STUD-FEEDBACK APPLICATION" is being

Submitted By

B.Meghana	(17R01A0504)
R.Manisha	(17R01A05G2)
K. Vineesha	(18R05A0504)

In partial fulfillment of the requirement for award of the degree of B. Tech in CSE to the JNTUH, Hyderabad is a record of a bonafide work carried out under our guidance and supervision.

The results in this project have been verified and are found to be satisfactory. The results embodied in this work have not been submitted to have any other University for award of any other degree or diploma.

Signature of Guide	**Signature of Coordinator**	**Signature of HOD**
Mrs.G.Vani	**Mr.Alagumuthu Krishnan**	
(Assistant Professor)	(Associate Professor)	

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We would like to express our heartfelt gratitude to **Mrs.G.Vani,** our project guide, for her invaluable guidance and constant support, along with her capable instruction and persistent encouragement.

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We thank to all members of the staff and our lab assistants for helping us to carry out the groundwork of this project. We also take this opportunity to thank our parents for their support to complete the project.

DECLARATION

We hereby declare that the work reported in the present report titled "**STUD-FEEDBACK APPLICATION**" is a record of work done by us in the Department of Information Technology, **CMR Institute of Technology, Hyderabad**.

No part of the report is copied from books / journals / internet and wherever the portion is taken, the same has been duly referred. The reported results are based on the project work done entirely by us and not copied from any other source.

B.Meghana(17R01A0504)

R.Manisha(17R01A05G2)

K.Vineesha(18R05A504)

ABSTRACT

Nowadays, educational Institutions are paying increasing attention to the views and opinions of students on the involvement in learning and teaching through reviews or feedback.

This project is focused on creating an Android application which basically takes the feedback from the students about various teachers and performs sentiment analysis on the feedback of all students to segregate out positive and negative feedbacks. 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.

This system reduces time and makes work easy and convenient. The goal of this project is to avoid a lot of manpower and reduce paperwork.

LIST OF FIGURES

1.INTRODUCTION

1.1Motivation

The purpose of the project "STUD-FEED", the manual work makes the process slow and other problems such as inconsistency and ambiguity on operations. To avoid those all problems this system is proposed, where the details of the students and his/her feedback are managed efficiently. It intends to help the teacher get a valid feedback which is provided by a valid model and it also helps to keep the information of student confidential. Student login is used to upload their academic information. The key features of this project are that it converts the students feedback data into rating.

In general, the teacher in order to get the feedback from the students he/she need to print the copies of the feedback form. This creates a lot of waste in time and manual work. The teach must reach the class get a free time of the students and collect the feedback. And should go through each and every form of the students for a better understanding of the feedback given by the students.

1.2. Basic Definitions

1.2.1. The Retrofit API is basically a type-safe REST API client for Android and Java which aims to consume JSON or XML data which is parsed into Plain Old Java Objects. It becomes easy for Android developers to consume web services RESTFUL API.

1.2.2. FLASK: Flask is a lightweight WSGI web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around Werkzeug and Jinja and has become one of the most popular Python web application frameworks.

1.2.3.Naive Bayes classifiers are a collection of classification algorithms based on **Bayes' Theorem**. It is not a single algorithm but a family of algorithms where all of them share a common principle, i.e., every pair of features being classified is independent of each other.

1.3. Problem Statement

The teacher should be able to get the feedback from the student. Students has to enter the feedback through the mobile application. Which they have to create an account and provide credentials to login and enter the feedback for teachers. And the application has to do sentiment analysis on the feedback which is provided by students.

2.EXISTING SYSTEM

The existing system describes about the features of the previous working model and their drawback. Existing system does all work manually. The teacher must register all the required information of the students. If any modifications are required in the profile of any student, it has to be done manually. This is tedious and time consuming, lack of security of data, takes more manpower. This process is so difficult when number of student's increases.

The existing system does not give the assure of confidentiality. This project implemented to overcome all the above-mentioned limitations. It has advantage over paperbased systems as it is computerised.

3.PROPOSED SYSTEM

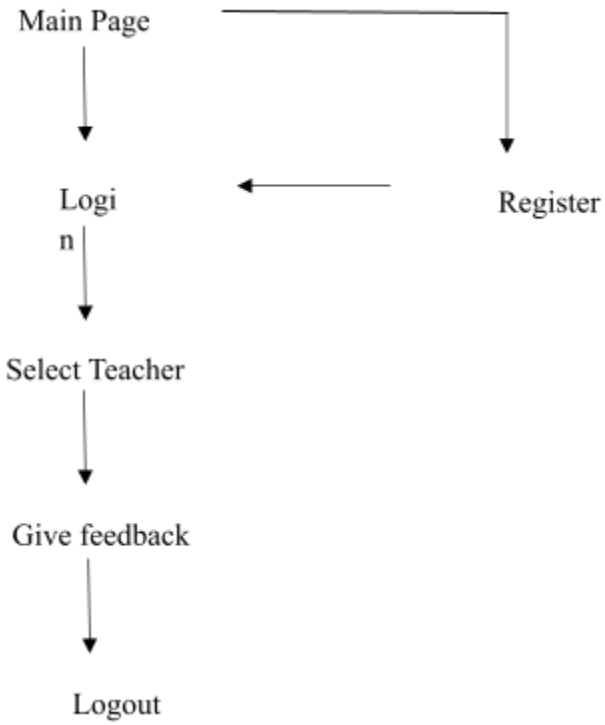
3.1. Methodology

The aim of the proposed system is to develop a system with improved facilities. The proposed system can overcome all the limitation of the existing system, such as teacher's information is maintained in the database, it gives more security to data, ensures data accuracy, reduces paperwork and saves time. The proposed system makes the information flow efficient and paves way for easy report generation, reduce the space, and it is cost effective.

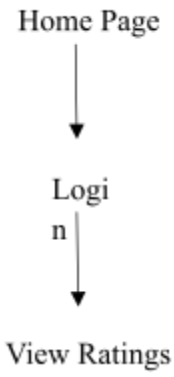
The purpose of the feasibility study is not to solve the problem, but to determine the problem is worth solving. This helps to decide whether to proceed with the problem or not. It involves the analysis of the problem and collection of all relevant information relating to the product such as items that would be input to the system, processing required to carry those data, the output data required to be produced by the system as well the various constraints on the behavior of the system. "STUD-FEED" had undergone the feasibility study so that the proposed system is possible for development deployment in various hospitals. The feasibility study concentrates on the following, such as Operational Feasibility, Technical Feasibility.

3.2. Architecture of Proposed System

Student Side:



Admin Side:



4.SOFTWARE& HARDWARE REQUIREMENTS

The requirements specification is a technical specification of requirements for the software products. It is the first step in the requirements analysis process it lists the requirements of a software system including functional, performance and security requirements. The requirements also provide usage scenarios from a user, an operational and an administrative perspective. The purpose of software requirements specification is to provide a detailed overview of the software project, its parameters and goals. This describes the project target audience and its user interface, hardware and software requirements. It defines how the client, team and audience see the project and its functionality.

Software Requirements:

Operating systems: Windows* 7 or later, macOS, and Linux.

Development tools used: Python3.7 or above, Flask 3.0, Bootstrap, MySQL, Android Studio, Visual Studio Code or PyCharm.

Hardware Requirements:

Processors: Intel Atom® processor or Intel® Core™ i3 processor.

32–64-bit processor

Hard Disk: (min)100 GB

Input device (mouse /keyboard) to select options

Sufficient RAM to run the program (Minimum 2GB)

Android Mobile Version 5.0 or above.

5.IMPLEMENTATION OF PROJECT

5.1 Implementation

The success of the software system product is determined only when it is successfully implemented according to the requirements. The analysis and the design of the proposed system provide a perfect platform to implement the idea using the specified technology in the desired environment. The implementation of our system is made user friendly.

Any software project is designed in modules and the project is said to be successfully implemented when each of the module is executed individually to obtain the expected result and, when all the modules are integrated and run together without any errors.

The Stud-Feed Project can be implemented using any android mobile which displays a home page in which the user can see two buttons: Register and Login namely. If the user has an account already, he/she can click on the login button and fill the username and password fields and can logged in to their account. Otherwise, they can register using the register button and fill the required fields and can create an account. The student can provide feedback about a teacher in the feedback section in detail. The admin can see all the rating of each teacher.

5.2 Results

Mobile App Home page:

Figure 5.1

Registration Page:

Figure 5.2

Login Page:

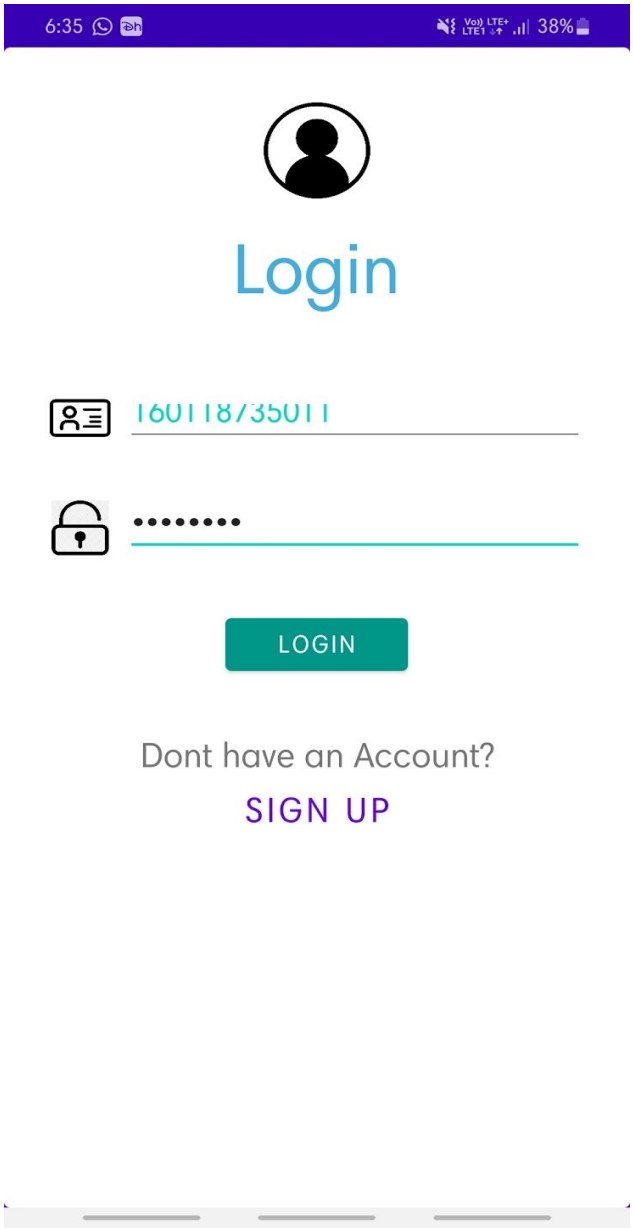


Figure 5.3

Dashboard Page:

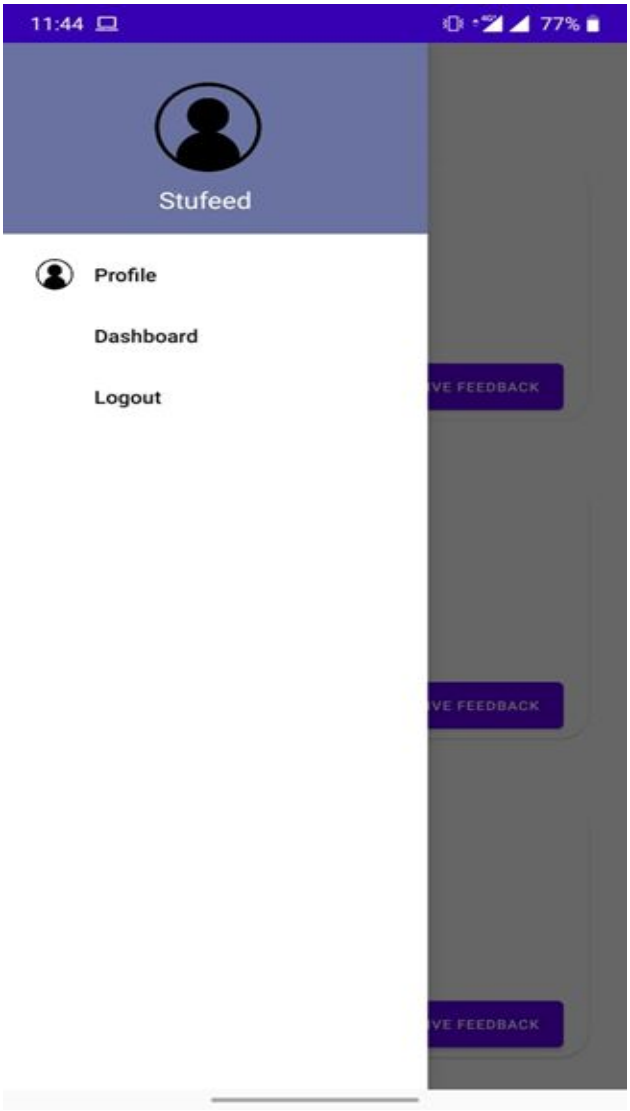


Figure 5.4

Main Page:

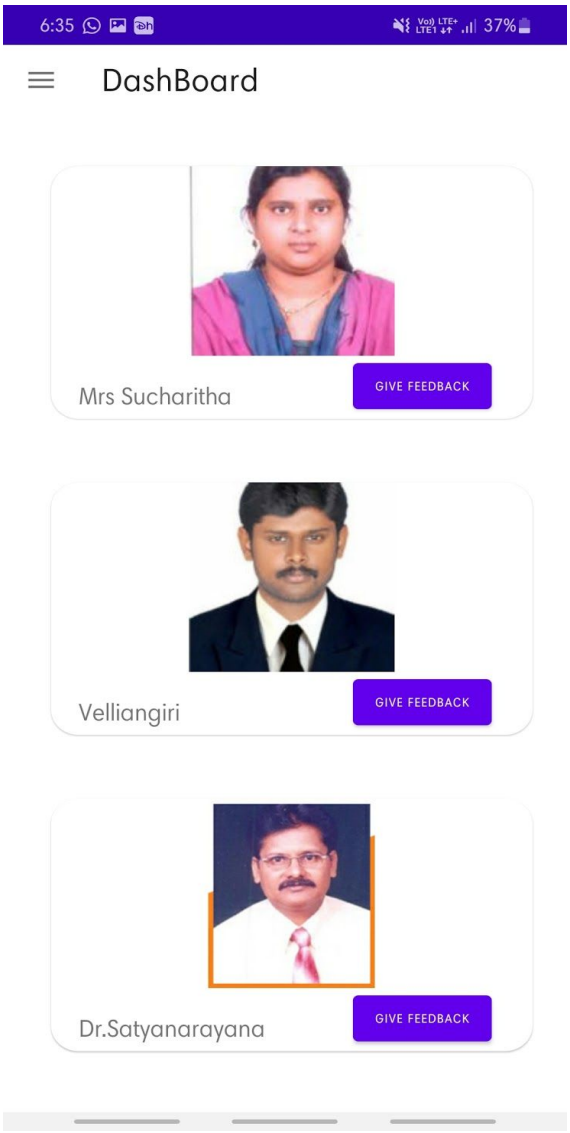


Figure 5.5

Feedback Page:

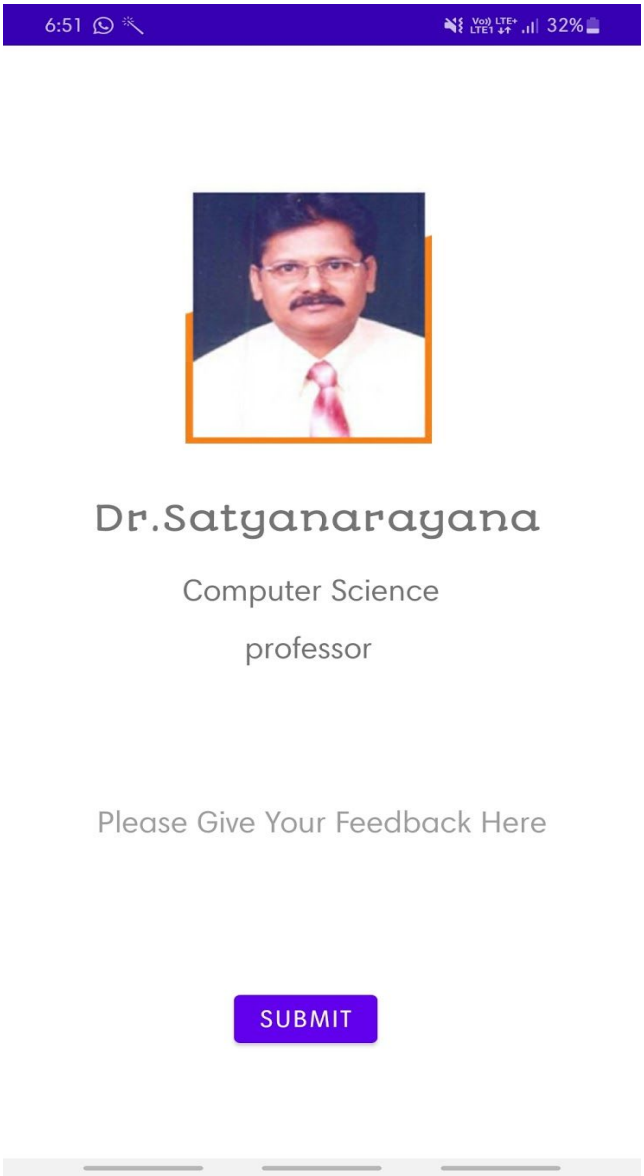


Figure 5.6

Admin Home Page:

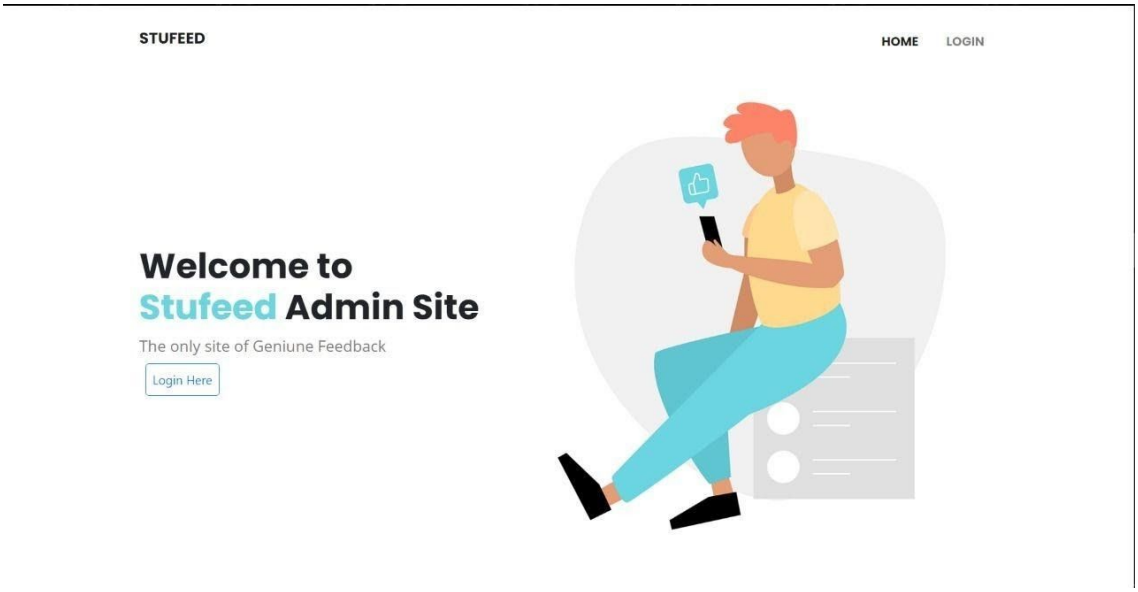


Figure 5.7

Login Page:

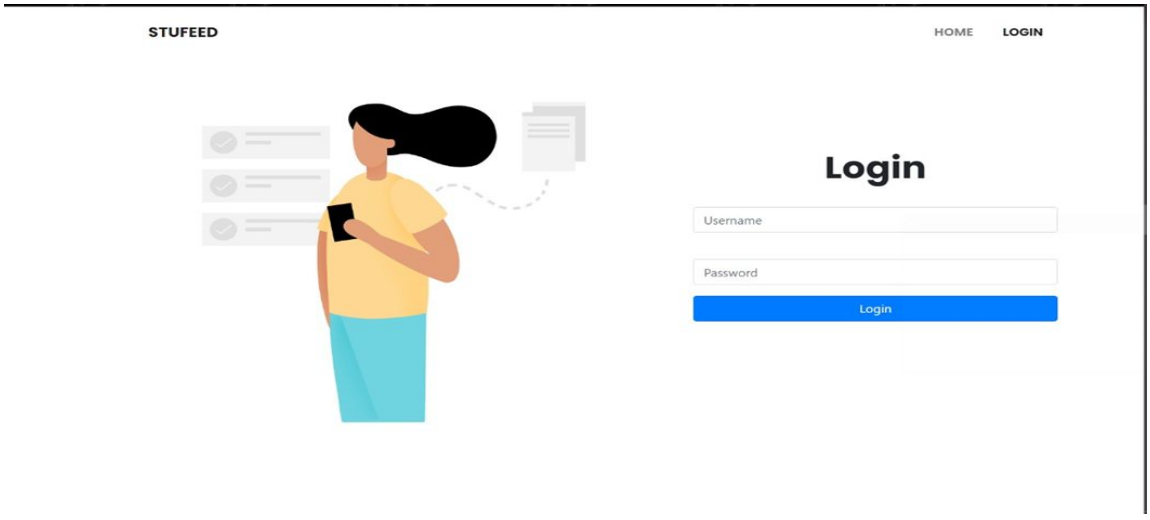


Figure 5.8

6. CONCLUSION AND FUTURE SCOPE

The Stud-Feed Project intends to resolve all the problems of the existing system. The teacher can get a proper feedback from students. The students are provided with a mobile application in which they can register and provide feedback for their respective teachers and describe their problem. The admin can easily view all the ratings of teachers in the website created for admin. We would like to conclude that the project has achieved what it set out to accomplish, even though there will always be areas for potential improvement and enhancement.

As stated above, there is considerable scope for improvement, and many changes can be made to enhance this project. The UI android app can be improved. Also, we can add the feature like students should provide feedback after each class according to the timetable. By this we can conclude that the future scope of this project is very high when implemented using advanced technologies.

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