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Automated & Effective Parent Teacher Guardian (PTG) Scheme

Neha Deshpande¹, Pranjali Gabale², Kranti Jagtap³

^{1,3}Department of Computer Engineering, Savitribai Phule Pune University

Abstract— Our aim in this work is to automate the system of Parent Teacher Guardian (PTG) scheme. PTG scheme is intended to provide parental support to the student in the college. System will group the issues related to student psychology, medical, financial, academics majors and minors. The major contribution of this paper is taking the student behaviour into consideration for the student's progress and teachers will counsel them as per the requirement.

Keywords— Predictive systems, Academic performance, Text Mining, Clustering, Client/Server.

I. INTRODUCTION

A high prediction accuracy of the students' performance is more helpful to identify the low performance students and counsel student. Many studies have explored the contribution of different factors from diverse theoretical perspectives to the explanation of academic performance. These factors have been identified as having important implications not only for the study of learning processes, but also as tools for improving curriculum designs, tutorial systems, and student's outcomes. The paper will further tell about the proposed system which uses automated & effective parent teacher guardian (PTG) scheme and which helps to improve student's performance.

Need: Increase accuracy, Student data consistency, Finding hidden Characteristics of student, Reduce time of assessment.

Scope: System will demonstrate an ability to predict student behavior with limited success and counsel the student and then take appropriate action.

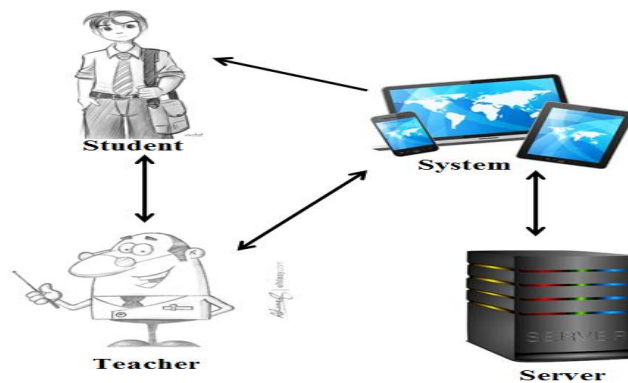


Fig 1. Overview of concept

II. EXISTING SYSTEM

In existing system, first teachers give the proctor form to the individual student. Then student fills the given proctor form and fills all information given in proctor form like medical history, academic data, attendance, financial status, family background and extra-curricular activities. This all information student have to fill manually. Teachers have to collect that form from individuals. And if PTG teacher will get change then student have to fill again the same information. Then teacher need to study thoroughly. Teacher has to consider the all aspects written by the student in proctor form. By studying each and every attribute of proctor form, teacher will analyse the overall student's performance and teacher will give the suggestions for the improvement of student. And if student need any major help then teacher will counsel the student according to need. Teacher has to fill all information about student manually on the database.

If student is performing well in all aspects then teacher can motivate the student and give the guidelines. This will help to student for better performance.

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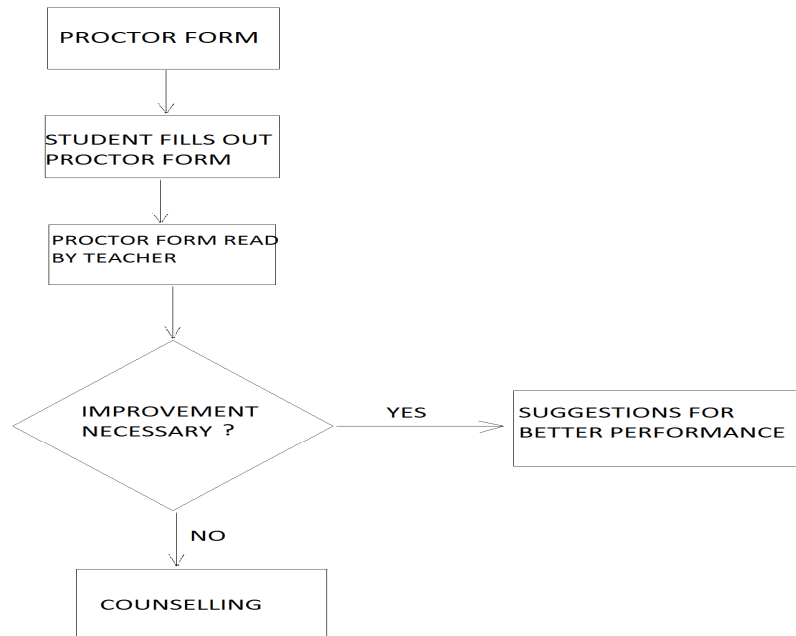


Fig 2. Flowchart of existing System

III. PROPOSED SYSTEM

Now we are going to automate the existing parent teacher guardian scheme for reduce the manual work of teacher and for improve student's performance. In this system teacher do not need to fill the previous information repeatedly in the database. Because previously entered information teacher can see easily. Students have to fill the data on the web application and PTG form will get generated. Then as per the schedule student will get notification about PTG meetings. After the discussion, teacher will gives the comments on student's timeline. Not only PTG teacher but also class teacher and student's coordinator can also give the comments on the timeline. This timeline will get stored on the college database. Then using text mining and clustering algorithm system will generate clusters like medical history, academic data, attendance, financial status, family background and extra-curricular activities. Then system will do S.W.O.T. analysis on each cluster and gives results accordingly. By observing result teacher will counsel or motivate the student as per requirements.

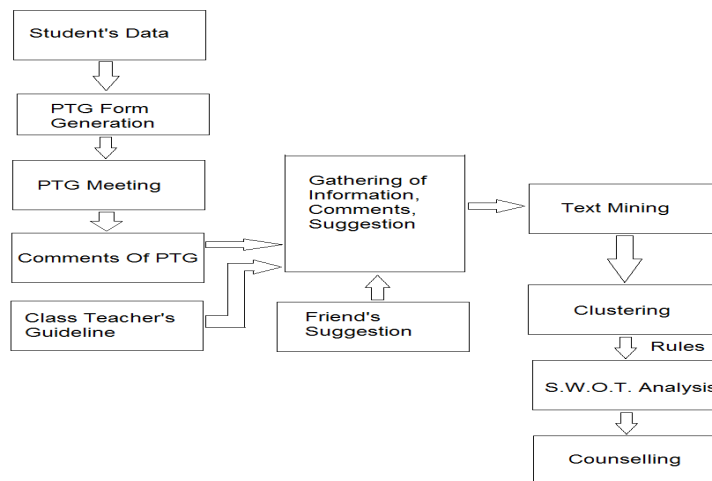


Fig. 3 Flowchart for Automated PTG Scheme

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IV. CONCLUSION

A methodology to predict a suitable career for a student is suggested. A student must be disciplined and should not be prone to violence. It will help the organization to offer guidance to the appropriate student in order to shape their future.

V. ACKNOWLEDGMENT

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