DIGITAL GATEWAY

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Abstract — An Engineering College is a combination of many complex problems. Without an automation portal, there will be a lot of manual work that takes a lot of effort, time and massive calculations. The proposed system would reduce all the manual work in outcome-based education.

Key Words — Automation, Diet Newsletters, Grievance, Training and Placement, Fee module , College Administrative System

I. INTRODUCTION

College Administrative System [1] is an essential component of outcome-based education. With the help of digital gateway, we can provide an interface for students to submit their newsletters/article to the respective department coordinator through our college portal (web portal [2] [3] [4]), we can collect different types of grievances such as anti ragging, women welfare, and general grievances from the students, we can provide an interface for the students and TNP cell members to communicate about the placement details through mails, and we can create pages to generate reports of fee automatically, scholarship id's entry etc. The major modules are:

- Diet Newsletters
- Grievance module
- TNP module
- Fee module

II. EXISTING SYSTEM

- Students or faculty are submitting the newsletters to the respective department DNL coordinators which is a time consuming and paper-based process.
- Students are complaining about different types of grievances like anti-ragging, women welfare, general grievances to the management in letter formats.
- TNP cell members are communicating with the students by meeting them in classrooms.
- The fee is being maintained in the College Automation Portal but the reports are done manually as there is no feature for the generation of reports.

III. PROPOSED SYSTEM

To overcome these problems, we have developed the Digital Payment Gateway (DPG) and grievance module, where all the work has been made easier.

DNL module allows students to send their newsletters/articles via mail. DNL coordinator will accept/reject/publish/suggest changes for the received newsletter/article.

The grievance module allows students to give complaints about different committees anonymously via mail. The committee coordinator will accept/reject the complaint based on the seriousness of the issue. A meeting will be set by the HOD/principal for the accepted complaints. Actions about the complaint will be taken and resolutions will be entered into the college database.

Students get registered in the TNP cell. TNP cell members will communicate about the information like placement registration links, higher studies, government jobs, training classes schedule via mail. TNP cell members will generate the student's lists who have matched the company's criteria automatically by giving the input like batch, branch, backlogs count, and percentage details.

The scholarship id's excel which contains the scholarship id's and roll numbers of student is directly uploaded and with a single click, all the id's will be uploaded directly into the college database and wherever it is needed to view the scholarship id's, admin can view them by giving input like academic year, branch, batch, year of study.

IV. DIET NEWSLETTERS

Diet newsletters play an essential part in co-curricular activities of the student. The orders of activities of this module are as follows:

- Sending user newsletters to DNL coordinator: All the students will send the newsletters to their respective department coordinator through college portal via mail.
- Accepting the newsletter: Based on the content and topic of the newsletter, the coordinator will either accept or reject or publish or suggest changes to the news letter. The action regarding the newsletter will be mailed to the student automatically.
- **Reports:** In this module all the reports like view all newsletters, view submitted newsletters, view latest newsletters will be generated.

V. GRIEVANCE MODULE

Grievances play a crucial part in the college. This system provides a way of communication between students and staff through college portal.

Students send their grievances to staff either with their details or anonymously through college portal. This communication is done through mails.

Based on the seriousness of the issue, the staff will accept those grievances in their respective logins.

For all the accepted grievances, a meeting will be scheduled by the principal/HOD to discuss about the action of grievance and resolution of grievances.

VI. TNP MODULE

Training and placement cell places a key role in the career of the student. So this module helps the students to know the details of all the activities that are held in TNP cell.

First student will register in TNP cell from their respective CAS logins. They can view and update the details whenever they want. The communication between TNP cell and student will be through the mail they given in the TNP registration process.

TNP cell members will generate the reports like CGPA wise report, backlogs report etc based on the company criteria the eligible students will receive the details of the company through mails.

VII. FEE MODULE

The fee module forms the most crucial part as it is related to the administration of the institute. The fee is maintained manually by the administration office which involves a lot of paperwork. Speaking of fee, there can be a lot of types of fee such as exam fee, tuition fee, other fees, hostel fee, transportation fee, etc., But here let's consider fee as two types:

- Examination fee
- College Fee.

VIII. RESULTS



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IX. CONCLUSION

This paper assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the manpower required and provides accurate information. Malpractice can be reduced. All years together gathered information can be saved and can be accessed at any time. Therefore, the data stored in the repository helps in taking decision by management. So, it is better to have a Web Based system. All the stakeholders, faculty and management can get the required information without delay. This system is essential in the colleges and universities.

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XI. AUTHORS DETAILS



R.Phani Kishore, completed Mtech from jntuk. Having good knowledge in artificial intelligence and deep learning for over 10 years.



Bhogadula Lakshmi Sowjanya, pursuing B.Tech final year at Dhanekula Institute of Engineering and Technology, member of research and development cell at Dhanekula Institute of Engineering and Technology, won 2^{nd} prize in Tech Trix at Dhanekula college fest.



Eluri Hemanth, pursuing B.Tech final year at Dhanekula Institute of Engineering and Technology.



Kunaparaju Dhanunjay Raju, pursuing B.Tech final year at Dhanekula Institute of Engineering and Technology, member of IFERP.



Avirneni Mahesh, pursuing B.Tech final year at Dhanekula Institute of Engineering and Technology.