

# College Portal – A management to facilitate virtual college system

Tarique Ahmad  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[tarique.ahmad275@gmail.com](mailto:tarique.ahmad275@gmail.com)

Syed Danish Ali  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[da.naqvi99@gmail.com](mailto:da.naqvi99@gmail.com)

S. Harish Krishnan  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[hari56@yahoo.com](mailto:hari56@yahoo.com)

Dhyey Valera  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[dhyeyvalera9@gmail.com](mailto:dhyeyvalera9@gmail.com)

Swastik Singh  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[singhswastik59@gmail.com](mailto:singhswastik59@gmail.com)

Sumit Sharma  
Department of Computer Engineering  
Thakur College of Engineering  
& Technology  
[lavishsumit9906@gmail.com](mailto:lavishsumit9906@gmail.com)

## Abstract—

*Due to lack of proper medium for students and management to interact and there is a chance that students can miss any critical notification from management such as student's fee alert or any announcement regarding events organized in college. This application does all automated work regarding maintaining and disseminating all information, which is extremely useful in colleges. It provides the study materials of all the courses currently pursued by courses. It simultaneously provides a community chat system to all the users who can ask anything at any time individually or in group. The administrator and student are two primary functional requirements in the given system. Proper login with time & role-based secure access is provided to admin, and users.*

**Keywords**—College Portal, Community Chat, Web application

## I. INTRODUCTION

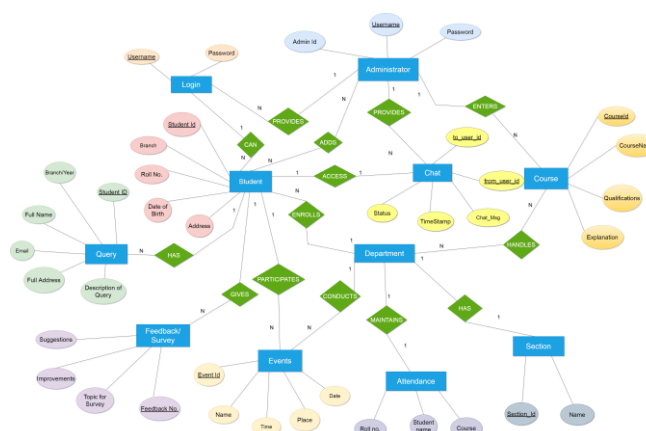
The college portal provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career are critically important in the university as well as colleges. The student information system deals with all kinds of student details, academic-related reports, college details, course details, curriculum, and other resource-related details too.

It tracks all the features of a student from the day one to the end of the course which can be used for all reporting purpose, monitoring of attendance, progress in the class, completed semesters, years, coming semester year curriculum details and all these will be available through a secure, online interface embedded in the college's website.

It also facilitates us to explore all the activities happening in the college. Different reports and Queries can be generated based on vast options related to students, batch, course, faculty, exams, and even for the entire college. The steps followed in developing include (a) Design of the system architecture; (b) Database design; (c) High-level design of

the project code; (d) User interface design; (e) Connecting the user interface with the database. The college portal system is identified as an appropriate method for managing information in college. College portal is based on real-life situations, taking into consideration all possible conditions and functionalities of the daily work in the college.

## ER DIAGRAM:



The college portal system is identified as an appropriate method for managing information in college. College portal is based on a real-life situation, taking into consideration all possible conditions and functionalities of the daily work in the college. This system considered an excellent first step in implementing performing online-based information management in college. Overall, the college portal seems to be a learning management system that appears to be user and management friendly. It is aimed at overcoming the shortcoming of manually operated processes. The college portal provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date

information regarding a students' academic career are critically important in the university as well as colleges.

College portal is based on real-life situations, taking into consideration all possible conditions and functionalities of the daily work in the college. The application runs among four different modules that share the same database.

Overall, the college portal seems to be a learning management system that appears to be user and management friendly. It is aimed at overcoming the short-coming of manually operated processes

## II. IMPLEMENTATION:

### PROPOSED SYSTEM

The website will provide a way for parent student and faculty to communicate with each other in terms of marks, attendance of student that the respected parent need to know, online through website which is based on PHP programming. This will solve all drawbacks of manual process, increase the efficiency and speed up all works to be completed. At college managements side a person can view the details of students will than print the details of student. Every student, parent (linked to student Account), faculty will be provided with unique Login Id and password. Also all the data will be at least once validated from the college database. For this purpose the college database are being retrieved directly. So this process also helps in maintaining integrity and consistency.

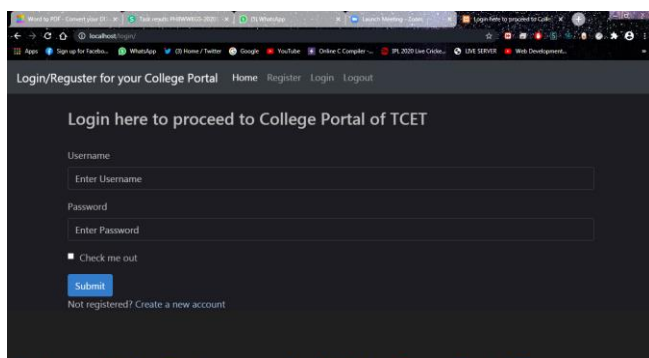


Figure (1)

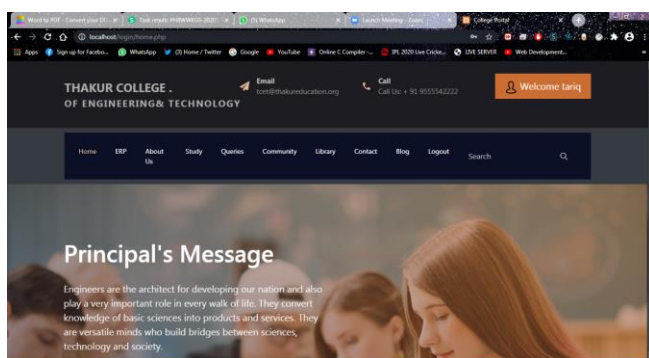


Figure (2)

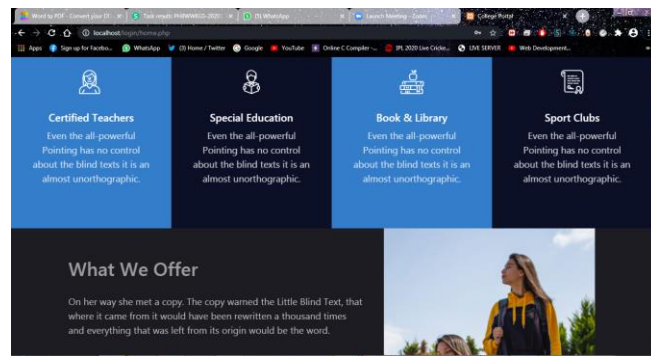


Figure (3)

## III. SYSTEM FLOW

The complete flow of the process is as follows. When Student uses this system for the very first time, while registering, the verification is done through the admin user. Once verification is completed, student can use the system. The validation of the information filled during the registration of account is done using the system and institute database, and only after that, the registration is been completed and the student/parent/faculty account is successfully created.

The admin (institute authority) controls complete work flow by giving the access permission to the student and the parent, updating institute database, & updating student details and reflecting the changes in the records of the student. As there is module of the Parent which is interlinked by his/her ,Son/daughter account by which the parent can see the progress of the particular student by various information and the permission of the parent account is given by the admin user .

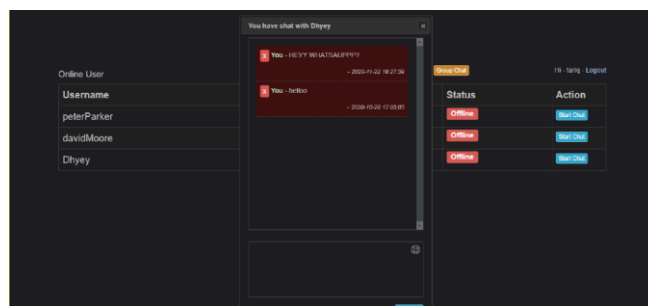


Figure (4)

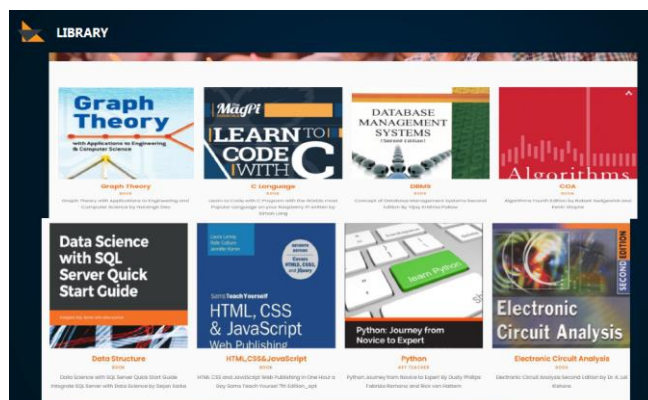


Figure (5)

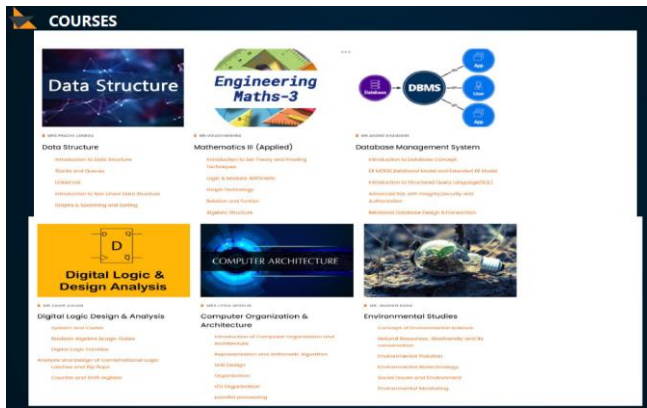


Figure (6)

#### IV. RESULT AND VALIDATIONS

For each input submitted by user(student/parent/faculty), validation is needed to be performed. No false format of details can be submitted in the input section of different students. Validations with respect to the rules instructed by college authority are done. The Login Id and password depends in which class and semester he/she belongs to. So, the user is not permitted to access data of different class and semester

#### V. ADVANTAGES

This project has a login page which allows to login only the registered user and thereby the unauthorized user are prevented to use the side and information in site .Login using the provided login ID and password through admin side. This system can also be used to display the entire syllabus, updates details to the user. The computer user will be able make quick download of notes /paper from anywhere using internet Usage of this site will greatly reduce time in engineering document sharing.

#### VI. CONCLUSION

This system, in addition to lessening the work load on the institute, it also fixes any false data about the users that the institution may have. It is a benefit for the users' whose important time and energy is preserved, for the affected educational college's authority whose workload is immensely reduced, whose services are secured from misuse.

#### VII. ACKNOWLEDGEMENT

We wish to acknowledge the help provided by the staff in the computer science department of the Thakur College of Engineering & Technology. We would also like to show our sincere appreciation to our guide Ms. Jesal Varolia who helped us to finalize our project. She constantly provided support and motivation to help us do this project with more vigour and gave it a boost.

#### VIII. REFERENCES

- [1] Yovita Tunardi, Rita Layona, Budi Yulianto, "Gallery Portal Web for Promoting Students' & Lecturers' Masterpieces".
- [2] Rami A. Y. Raba, Mohammed M. I. Awad, "Students' Portal Architecture based on SOA".
- [3] He Zonggang, Zheng Junsheng, "Design and Implementation of Student Attendance Management System Based on MVC".
- [4] Patricia E. Ragan, Ph.D. Arthur Lacey, M.S. Robert Nagy, Ph.D. "Web-Based Learning and Teacher Preparation: Lessons Learned".
- [5] Xiao HongJu, Wang Fei, Wang FenMei, Wang Xiu Zhen, "Some Key Problems of Data Management in Army Data Engineering Based on Big Data".
- [6] Zhenzhong Yang, Huanhai Bai, "Building a Maturity Model for College Library Knowledge Management System".
- [7] Jhon O. Inoco, Alexander A. Hernandez, "Assessment on the Effectiveness and Satisfaction of Students in e-Student Information Portal".
- [8] Puspita Kencana Sari, Adhi Prasetyo, "Campus Information Portal based on Portal Technology".