INTERNATIONAL JOURNAL OF PURE AND APPLIED RESEARCH IN ENGINEERING AND TECHNOLOGY

A PATH FOR HORIZING YOUR INNOVATIVE WORK

STUDENTS PORTAL

PROF. S. A. DHAWALE, HRUSHIKESH DATKAR, SUMIT PAWAR, HARSHAL TEMKAR, ASHWINI UMALE, PRATIK CHANDURE

Department of Information Technology, DRGITR Amravati

Abstract: Today's education scenario is rapidly changing and demanding. The system demands greater levels of communication between college, student and faculty members to have optimum use of resources. Today's industry talent demands are soaring with more and more skills requirements in all fields. Colleges and institutions generating creative students' needs focused approach on such talents and industries so as avail best of benefits to their candidates passing out. Our team is proud to present student portal system fulfilling these demands and enacting as a bridge of communication amongst students and faculties of colleges. A student portal basically aims to expose the students to the various activities around them and guide them to their improvement.

Keywords: Students Portal

PAPER-QR CODE

Corresponding Author: PROF. S. A. DHAWALE

Access Online On:

www.ijpret.com

How to Cite This Article:

S. A. Dhawale, IJPRET, 2016; Volume 4 (9): 1289-1298

1289

INTRODUCTION

The student portal is a web portal where all information and all services that students need can be found in one place. Students now can interact with their administration and mates both at the same time. It might be one of the best use of the technology for the benefit of student. Students Portal is a Web Application and private workstation which can run by any institute for drafting of their notifications and information to Students and Faculties. In this project there are three main Section Administrator, Teaching Staff and Student Section. Administrator has higher authority in the portal, He controls all the operations of the portal also provide the notices to low level users such like Teaching staff and students. The role of the administrator is to provide valuable information and give activation to the user. Administrator can give instruction to student as well as to the teaching staff. Teaching Staff also play vital role of providing information such as providing notices, timetable, question banks, Campus placement information and any other valuable document in the form of image or word document etc also he can provide notices of his own department and class to end users.

Students can view all the information provided by the higher level authority.

1. LITERATURE REVIEW

There are many benefits of students portal that our addressed in the literature. Building a sense of community, easy access to information at pivotal moments in student development, providing personalized, relevant information at the exact time of need, and giving students proactive information to help make appropriate decisions are just a few common benefits addressed in the literature. These benefits could have a positive impact on students' development, collegiate experience, and in turn their retention. For example, the University of Buffalo found that their portal helped reduce their attrition rate. The experience of the University of Buffalo indicates that where institutional portals help tackle the causes of student drop out they have been effective in enabling retention

Many factors, however, contribute to the educational effectiveness of technology, like portals. Students from low socio-economic backgrounds may have had limited experience with technology, creating a disadvantage as they enter college and beyond. Students with learning and physical disabilities also may have disadvantages because of past and current issues in access to a variety of technology hardware, web sites, and course/content management systems. Colleges and universities that respond rapidly to the needs of users and content providers will significantly decrease the probability of failure and reap many successes.

2.   ANALYSIS OF EXISTING SYSTEM

In the current approach employed by most universities, students have no communication medium between them and other officials within the institution; also there is no provision for an information dissemination medium from the management of the institution to the students. This causes a great problem in keeping records of daily attendance, performance of each student on the side of the lecturer, and there are lots of difficulties for the students regarding interaction with their departments and getting up-to-date information concerning their respective departmental activities.

1. The system was maintaining a central base of information.

2. The system was delivering all the information about student profile and results to be accessible by various departments within the institution.

3. The system was declaring syllabus of various courses from each department.

3.   PROPOSED SYSTEM ANALYSIS

The system has been divided into modules where each module is described below.

Administration Module

In this module the administrator enters his/her user name and password, which enables access to the administrator page. This page consists of two following sub modules.

Student Addition/Updating/Deletion: Each Student is added, updated or deleted according to his/her department.

Notice/Updates/Result Generation: On the portal, information about notice, attendance and Internal result is generated.

Administration Authorize: This is a backend for the management, registry, student affairs and other departmental officials to manage student records, requests, and complaints as well as disseminate information to the students and other bodies.

Faculty Module

Department Status: This module gives profile information of various departments associated to the faculties. It gives profile information of all the departments. Anyone can contact these departments through the available complaint form.

Update Syllabus: The syllabus of various branches associated with different departments within the institution is available here. Syllabus can be viewed and downloaded by the students.

Provide Study Material: This module provides the feature of access to read/download study materials available on the website. The module could be edited only by the faculty of the student portal. Any student can download the material available at any time.

Requirement Specification: Requirement specification is a description of what the users of a system will be able to do with it, the functionalities the system should have and how it should react in certain situations.

Student Module

Login: The purpose of this module is to provide entry to the system or website. Based on the type of login, the user is provided with various facilities and functionalities. The main function of this module is to allow the user to use the portal. This module provides types of login Student login.

Edit Profile: This is a separate webpage for students. They can view, edit, and update their profile from anywhere. It also provides them with platforms to view results.

Registration: This module enables students to register for the semester.

Change Password: This module can student able to change our Password.

Requirement Specification: Requirement specification is a description of what the users of a system will be able to do with it, the functionalities the system should have and how it should react in certain situations.

Students have options to change password, retrieve password (when forgot) or entirely remove from this Student portal project.

Students will be able to see the notice posted by the Administrator or any of their respective Faculty member.

The Faculty registration must also be authorized by the administrator before they can access their accounts.

The Centralized control is with the Administrator who is responsible for the authorization of registration of students and faculty.

4.   DESIGN MODULES

Data Flow Diagram: This is a process model used to depict the flow of data through a system and the work or processing performed by the system. In this model, there are three users of system, The rounded rectangle represents users and
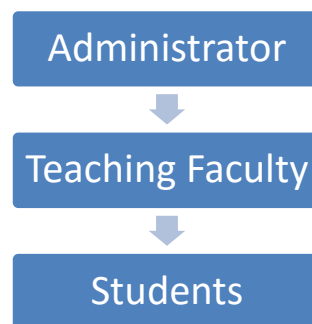
Administrator

Teaching Faculty

Students

Fig. Interaction of user

The arrows represent data flows, or inputs and outputs. This system use waterfall mechanism as shown in below fig.

Use Case Diagram:. A use case describes the sequence of events of some types of users called actors like Students, Teaching Faculty and Administrator. Using activity part of the system functionality to complete a process. Each use case captures a piece of functional requirements for some users. All the use cases together describe the overall functional requirements of the system. The first step in requirements capture is to capture requirements as use cases.

Fig. Use case diagram of student portal

Administrator Module: In this module the administrator enters his/her user name and password, which enables access to the administrator page. This page consists of two following sub modules.

Student Addition/Updating/Deletion: Each Student is added, updated or deleted according to his/her department.

Notice/Updates/Result Generation: On the portal, information about notice, attendance and Internal result is generated.

Faculty Module: - This module gives profile information of various departments associated to the faculties. It gives profile information of all the departments. Anyone can contact these departments through the available complaint form.

The syllabus of various branches associated with different departments within the institution is available here. Syllabus can be viewed and downloaded by the students.

Faculty module creates a platform for students to view and select courses to be taken for the current semester.

Student Module:-This is a separate webpage for students. They can view, edit, and update their profile from anywhere. It also provides them with platforms to view results. Students enable to register for the semester.

5.   DEPENDANCIES

System Development Software Tools

- MySQL database to store information.

- Eclipse IDE for development purpose.

- Apache Tomcat Server for creating local server

- J2EE is used to develop architecture of Student Portal.

6.   LIMITATION

Numerous precautions were taken throughout the review process to insure integrity of the findings and recommendations, but there are some limitations that need to be highlighted. Due to other responsibilities and personnel changes, involvement from the content providers. Student/User must first register to have an account to use this portal. Student can have only receive messages but do not have the authority to send messages.

7.   RESULT

The Student portal system is a portal website for colleges or institutes to offer facility to their students & faculties for creating & maintaining their own web profiles. These profiles will be their web identities for and will be useful for various academic as well as extra-curricular purposes. The features rich portal system offers many more facilities for students, faculties and administrator/teachers like the reminder/notice for the upcoming workshops or training and placement sessions as well as campus drives being held in various colleges and it will also allow them to express their point of interests related to their academic curriculum to their respective teachers sort of like a feedback about what are they interested to learn. This portal will also enable students to checkout their respective daily schedule, exam dates, and other important reminders with ease, and all this in their own profile.

8.   SYSTEM IMPLEMENTATION

This system is implemented as follows:

This is login page for Administrator

Fig(a):Admin log in page

This is login page for Teaching Faculty

Fig(a):Teaching Faculty log in page

This is login page for student

Fig(a): Student log in page

This is sign up page for student and Teaching Faculty

Fig(a): Student and Teaching Faculty signup page

9.   CONCLUSION

This project is the great step towards digitalizing the institute by making this we can create smart college campus with smart student also it can be step towards a digital India. It useful to student as well as faculty and also reduces hard work, save time and reduces paper work .It help in to save tree and maintain the ecosystem. Faculty of college can be directly interact with the student. Student portal system is a portal website for colleges or institutes to offer facility to their students & faculties for creating & maintaining their own web profiles.

Portal system offers many more facilities for students, faculties and administrator/teachers like the reminder/notice for the upcoming workshops or training and placement sessions as well as campus drives being held in various colleges and it will also allow them to express their point of interests related to their academic curriculum to their respective teachers sort of like a feedback about what are they interested to learn.

10. REFERENCES

1. Tatnall, A. (2009). Gate ways to portals research. *International Journal of student portals*, *1*(1), 1–15.

2. Usability.gov. (n.d.). *What does usability measure.* Retrieved September 2, 2012, from: http://www.usability.gov/basics/index.html.

3. Maedche A, Stab S, Stajanovic N, Studer R, Sure Y, (2003*). Semantic Portal- The Seal Approach in Spinning the Semantic Web.* London, MIT Press, pp 317-359.

4. Pienaar, H. (2003). Design and Development of an Academic Portal. *Libri*, 53 (2), 118-129.

5. Pickett, R. & Hamre, W. (2002). Building portals for higher education. *New Directions for Institutional Research,* 2002**,** 37-56.

6. Dane Phillip, (2008). Web Portal and Web Portals Types [online]. Available from: http://articles.webraydian.com/article6353-WEB_PORTAL_and_Web_Portals_Types.html.

7. The University of Melbourne Student Portal Guide