

WEB BASE INSTITUTE INTERACTIVE SYSTEM

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Abstract: This paper is aimed at developing an Online Intranet WEB BASED INSTITUTE INTERACTIVE SYSTEM (WBIS) that is of importance to either an educational institution or a college. The system (WBIS) is an Intranet based application that can be accessed throughout the institution or a specified department. This system can be used as an attendance monitoring system for the college. Students/staffs logging in may also access/search any information. Attendance and marks will be updated by staff. This system (WBIS) is being developed for an engineering college to maintain and facilitate easy access to information. For this the users need to be registered with the system after which they can access or modify data as per the permissions given to them. WBIS is an intranet based application that aims at providing information to all the levels of management within an organization. This system can be used as a knowledge/information management system for the college. For a given student/staff (technical/Non-technical) can access the system to either upload or download some information from the database.

Keywords- Admin panel, Centralized database, Internet enable mobile devices, smpt.

I. INTRODUCTION

The title of the project is “WEB BASED INSTITUTE INTERACTIVE SYSTEM” (WBIS). WBIS is an Intranet based application that aims at providing information to all the levels of management within an organization. This application provides a virtual tour of campus. Here we will get the latest information about the students and staffs. This system can be used as an information management system for the college. For a given student/staff (Technical / Non-technical) the Administrator creates login id & password, using these student/ staff (Technical / Non-technical) can access the system to either upload or download some information from the database. The front-end will be HTML pages with Java Script for client side validation where as all business logics will be in Java reside at middle layer. And these layer will interact with third layer of database, which will be Oracle database. The web server will be Tomcat5.5. To start

working on this project environment required is a server having Tomcat5.5 as webserver, Oracle10g as database and Java Runtime Environment (JRE) as development environment. The college website developed will be dynamics, interactive, attractive, informative and secured. The college website developed will be dynamics, interactive, attractive, informative and secured.

II. LITERATURE SURVEY

The purpose of this literature review is to provide context that can be used to frame the discussion of characteristics of highly effective basic online education. This includes criteria for effective developmental education courses and for English as a Second Language, as well as what is considered to be the state of the art in effective assistive technologies, and how these technologies might be implemented specifically around developmental education courses for online learning. In each of the three sections, we

examine literature that helps to define what is meant by high quality and then provide basic demographics of the population that these courses serve, as well as literature that presents examples and models of existing implementations of developmental education, English as a Second Language, and assistive technologies.

Review of literature is an early step for conducting research. It enables to avoid the duplication of research work and broadens the understanding of the research problem.

These studies relate to the different aspects of libraries particularly college libraries, including library administration, finance, document collection, library staff, services, physical facilities, use of libraries by students, research scholars and teachers, their information seeking behavior use pattern and user's satisfaction with the resources and services of libraries, etc. In this chapter, a review of the selective and useful studies related to the research problem has been attempted. The survey is a recognized and accepted part of the modern society. It is one of the means by which society keeps it informed, away of bringing under central situations of increasing size and complexity of obtaining perceptive and standard of comparison. A survey gives an oversight of a field and is thus distinguishing from a sort of study which consists of a microscopic examination of a turf; it is a map rather than a detailed plan.

The literature review plays a very important role in the research process. It is a source from where research ideas are drawn and developed into concepts and finally theories. It also provides the researcher a bird's eye view about the research done in that area so far. Depending on what is observed in the literature review, a researcher will understand where his/her research stands. Here in this literature survey, all primary, secondary and tertiary sources of information were searched.

III. AIM AND OBJECTIVE

The aim of this project is to develop a college website which will give statistical and analytical information and it will be useful for college's registered users and website visitors. The college

website developed will be dynamics, interactive, attractive, informative and secured. This project will facilities the college and its various departments to maintain information about students, ex-students, professors, Head of departments, principal and non-teaching staff also. It will provide all the necessary information about the college required to the visitor.

This is a web oriented application allows us to access the whole information about the college, staffs, students, facilities etc. This application provides a virtual tour of campus. This generic application designed for assisting the student of an institute regarding information on the courses, subjects, classes, assignments, grades and timetable. It also provides support that a faculty can also check about his daily schedule, can upload assignments, and notices to the students. Here administrator will manage to accounts of the student and faculties, makes the timetable, and upload the latest information about the campus.

IV. MAIN MODULE OF THE SYSTEM

A. CAMPUS INFORMATION

This module gives the information about

- Buildings/Blocks: It contains the information about the total number of block present in the campus and also the number of rooms present in each block.
- Laboratories: This gives the information about the number of laboratories present in each department.
- Buses: This gives the count of the buses deployed by the management.
- Library: students can borrow/return and can view status of books present in the library.

B. ADMINISTRATION

This module deals mainly with following things,

- Admission: This mainly deals registering the students/staff and assigning them with a login id and password.
- Accounts: This keeps track of the financial details of the college.
- Hostel: It gives information about the college hostel for both boys and girls.
- Bus Routes: This maintains the route details of the buses.

C DEPARTMENT INFORMATION

This module gives the information about,

- Course: This contains the information about the number of the courses offered by the college and number of seats present in each.
- Staff: This contains the number of staff available in each department.
- Infrastructure: This has the details of the assets allotted for each department.
- Syllabus: This provides the academic syllabus of the student from different branches.

D STAFF INFORMATION

This module deals mainly with,

- Profile: This provides personal details of the staff.
- Attendance: This provides the staff with his/her attendance details.
- Salary: provides the staff with his/her salary details.
- Feedback: This feature enables the staff to provide feedbacks to the management.
- View Details: This provides staff to view detail.

E STUDENT INFORMATION

This module gives information about,

- Profile: This provides personal details of the student.
- Attendance: This provides the student with his/her attendance details.
- Marks: This provides the internal/external marks of a student.
- Feedback: This feature enables the student to provide feedbacks to the management.
- Remarks: It contains the remarks written by the faculties about a student.
- Change Password: Provides the student to change his/her password

F EXAMINATION BRANCH

This module contains the information about,

- Examination Form: This gives the information about the issue of examination form.
- Results: This contains the internal/externals marks of a student.
- Attendance: It maintains the attendance of all the students (in order to issue the examination form).

- Seating Arrangement: This has the seating arrangements for the various examinations.

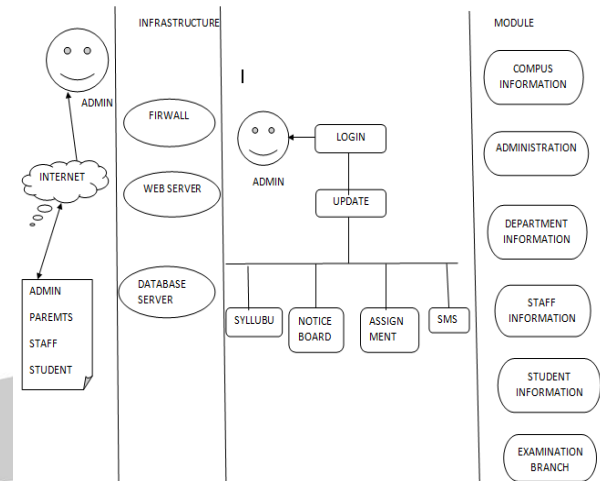


FIG 1: ARCHTECHTURE

V. PROPOSED SYSTEM

A college website has static information. It does not have database connectivity. In order to make the site dynamic and more interactive a database has been linked to college website. In this system there is login facility for students, professors, head of departments, principal and selected non-teaching staff. Students can view mark and attendance of each every student of their respective department. Compared to the existing site, a database has been added to the project. The Home page contains several information about the site like campus, management, facilities, infrastructure etc. First page also has login module helps the user to login to the site. The login provision in this page helps the already registered user to directly access the site and there is a link for registration to a user who is new to this site. Only professors, head of departments, principal and students are allowed to login or register. Other users are only allowed to see the first page and their links.

When they login on the first page they will see the flash news and the latest developments, announcements and associated with college activities. Students can see their result of each semester, unit test, graphical analysis of their progress and also their attendance of each subject. Students have no update right. Professors can only view and update marks of students and of the subjects which they take. Head of

department can view the about all professors but only in this department. HODs can access expense link also. Here they can make a demand for anything needed in the laboratory to the principal. Principal will see the request and approve if he is convinced or else will reject it. Principal has the right to access everyone. He can view graphical analysis of progress of students.

Students, professors, HODs and principals can access library and check the status of books. Weekly report is emailed to parents informing them about their child's attendance. Provision of online form is also provided to the students.

Proposed system aims to successfully provide the following points:

- College website will now database connectivity.
- It is won't be static website, hence it is will be interactive.
- It will provide some access to students, hence they might be updated with latest events or placement drives.
- This system will store the records of professors, students, ex-students, head of departments, principal and non-teaching staff.

Hence it will be a website which has been developed for college in an effort to make it as attractive, dynamic and secured as possible.

VI. CONCLUSION

The basic goal is to facilitate efficient and improvised web search experience to the user. With the help of various new technologies, it can be easy to enhance the web experience to the user. The user would be able to navigate quickly to related web sites which would indeed improvise the search experience. The concept of personalizing the web search according to user would reduce the burden of navigating to different web sites by typing the name of the website in the search bar. The user would have the freedom of accessing all the related web pages and this would pose as a turning point in the user's web experience. Awareness and right information about any college is essential for both the development of student as well as faculty. So this serves the right purpose in achieving the desired requirements of both the communities.

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