Design and Development of Online College Management System

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Abstract: Online College Management System (OCMS) gives a basic interface to support of student data. It can be utilized by instructive organizations or universities to keep up the records of students effectively. The creation and administration of precise, a la mode data with respect to a students' scholarly vocation is basically critical in the college and in addition schools. Student data framework manages all sort of student points of interest, scholarly related reports, school subtle elements, course subtle elements, educational programs, clump points of interest, arrangement points of interest and other asset related points of interest as well. It will likewise have personnel points of interest, batch execution subtle elements, students' subtle elements in all perspectives, the different scholarly warnings to the staff and students refreshed by the school organization. It likewise encourage us investigate every one of the exercises occurring in the school, Different reports and Queries can be created in view of immense alternatives identified with students, group, course, workforce, exams, semesters, confirmation and notwithstanding for the whole school The arrangement officer is in charge of refreshing the position related data like qualified criteria for a specific organization, arriving date for the organization which is wanting enlistment, the rundown of students who are qualified for going to

the enrollment procedure. E-Library (additionally alluded to as advanced library) is an extraordinary library with an engaged gathering of computerized protest.

Keywords: Online College Management System, E-Library, Data flow, student interface.

1. Introduction

The design and usage of a thorough Online College Management System and UI is to supplant the present paper records. School Staff can straightforwardly get to all parts of a student's scholastic advance through a protected, online interface implanted in the school's site. The framework uses client validation, showing just data essential for a person's obligations. Furthermore, each sub-framework has verification enabling approved clients to make or refresh data in that subsystem. All information is completely checked on and approved on the server before genuine record adjustment happens. Notwithstanding a staff UI, the framework anticipates student UI, enabling clients to get to data and submit demands online hence lessening handling time. All information is put away safely on SQL servers oversaw by the school executive and guarantees most elevated conceivable level of security. The framework includes a mind boggling logging framework to track all clients' entrance and guarantee adjustment to information get to rules and is relied upon to

build the proficiency of the school's record administration in this manner diminishing the work hours expected to get to and convey student records to clients.

Goals

• Providing the online interface for students, staff and so forth.

• Increasing the effectiveness of school record administration.

• Decrease time required to get to and convey student records.

• To make the framework more secure.

• Decrease time spent on non-value included undertakings.

2. Data Flow Graph

The point by point stream diagram is appeared in Fig.1 .The plan of the Online College Management System incorporates the outline of the landing page which gives the route to all students and other client to get to the OCMS. Each client of the OCMS has a one of a kind username and secret key. The landing page principally contains a login shape through which another client can enroll, or a current client can login to the framework by entering the username and secret key.
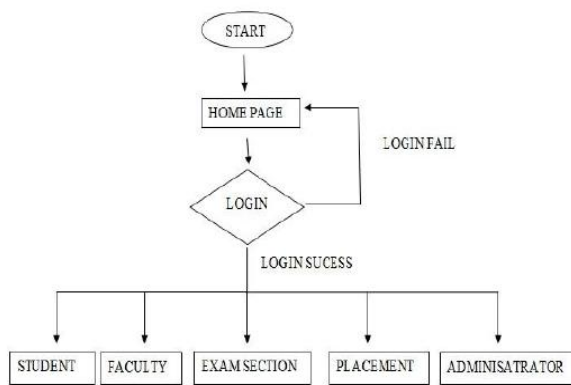
Fig. 1 Data Flow Diagram

Administrator: The administrator is in charge of entering the new student and dealing with the student Accounts. The overseer additionally deals with the broken records like entering another workforce allocating the staff to the subjects. The Administrator likewise refreshes the school related data about occasions that happen in the school. The Administrator additionally refreshes arrangement related data and oversees E-Library. The overseer will check every one of the updates i.e. student refreshes staff, refreshes, exam refreshes and so forth. The chairman has the most elevated amount of energy in the school administration framework.

Faculty: The staff can refresh the data with respect to the students participation, inward signs of the students and any data in regards to the subjects they handle. They can likewise see the student points of interest for better understanding the student execution and enhancing the productivity of the student. The staff likewise gets the updates from the school with respect to any occasions happening in the school.

Student: The student is of focus center, on the grounds that in each undergrad assume the imperative part. Student can get to the data of the school, subject points of interest, preparing and position cell data and exam segment data. The course subtle elements incorporate data in regards to branch he is contemplating, the scholarly educational programs of the school, year insightful subject offered by the branch, the subject points of interest incorporate the syllabus of the subjects, data in regards to the staff dealing with the subjects, the subjects he by and by enlisted for the semester he is

directly examining, participation and inward signs of the subjects, he can likewise ask any inquiries to the staff in regards to the subjects. The situation points of interest incorporate the data about the organizations, the qualification criteria for going to enrollment of the organizations, the procedure of enlistment, the date and time of the enrollment. The arrangement segment refreshes the student data that got chose for an organization. The exam area points of interest incorporate the inside and outer time table it additionally contains the semester final products.

Exam Section: The examination segment is in charge of refreshing inward and outer examination time table. Furthermore, they are in charge of the checking and supporting the inner imprints points of interest refreshed by the staff.

Placement Section: The position officer is in charge of refreshing the arrangement related data like the rundown of student who got set in an organization and the position officer can get to the student data from the student database.

E-Library: E-Library (likewise alluded to as computerized library) is a unique library with an engaged accumulation of advanced articles that can incorporate content, visual material, sound material, video material put away as electronic media formats (as contradicted to print, microform, or other media), along with implies for sorting out, putting away and recovering the documents and media contained in the library gathering.

3. Requirement Analysis

The essential necessities for the outline of the OCMS are:

• Every client ought to have their own identity Login office.

• User can refresh his/her own data and can see the notice, comes about, situation and exam segment refreshes and so forth

• Faculty, situation and exam segments can refresh any of the data.

Database Design Process: It is reasonable for say that database assume a basic part in all zones where PCs are utilized, including business, electronic trade, building, drug, law, instruction, and library science. A database is gathering of related information. A database has the accompanying certain properties: A database speaks to some part of this present reality, now and then called the smaller than usual world or the Universe Of Discourse (UOD) changes to the little world are reflected in the database.

• A database is a sensibly reasonable accumulation of information with some characteristic significance. An arbitrary combination of information can't effectively be alluded to as a database.

• A database is composed, fabricated, and populated with information for a particular reason. It is an expected gathering of clients and some biased application which these clients are intrigued.

Database Management System (DBMS) is an accumulation of projects that empowers clients to make and keep up a database. DBMS is a broadly useful programming framework that encourages the way toward characterizing, developing, controlling, and sharing database among different clients and applications. Characterizing a database includes the

determining the information writes, structures, and limitations of the information to be put away in the database. The database definition or expressive data is additionally put away in the database as word reference; it is called Meta information building the database is the way toward putting away the information on the capacity medium that is controlled by the DBMS.

Controlling a database incorporates capacities, for example, questioning the database to recover particular information, refreshing the database to reflect in the scaled down world, and creating reports from the information. Sharing a database enables a numerous clients and projects to get to the database at the same time. Application program gets to the database by sending questions or demand for information to the DBMS. A question regularly makes a few information be recovered; an exchange may make a few information be perused and a few information to be built into the database.
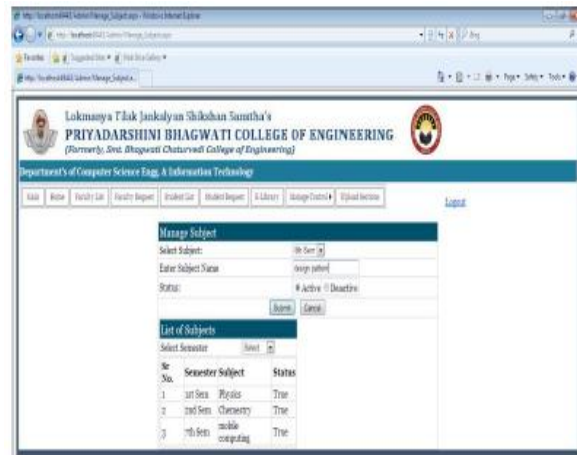
4. Results

Output Home Page
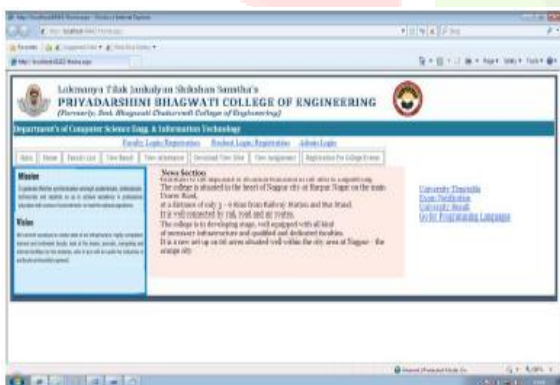
Admin Login

Subject Added

Student List

Faculty List

Student Login

5. Conclusion

This paper helps with computerizing the current manual framework. This is a paperless work. It can be observed and controlled remotely. It decreases the labor required. It gives exact data dependably. Misbehavior can be decreased. All years together assembled data can be spared and can be gotten to whenever. The information which is put away in the vault helps in taking shrewd choices by the administration. So it is smarter to have a Web Based Information Management framework. Every one of the partners, personnel and administration can get the required data immediately. This framework is basic in the schools/lodgings and colleges.

References

[1] Web Portals: The new gateways to internet information and services by Arthur Tatnall (Victoria University, Australia).

[2] Educational portals: A way to get an integrated, user –centric university information system by Marko Bajec (University of Ljubljana, Slovenia).

[3] All about web portals; a homepage doth not a portal make by Howard Strauss.

[4] Boston College university-wide information portal: concepts and recommended course of action; Gleason, B.W (2000).

[5] Zhibing Liu, Huixia Wang,Hui Zan "Design and implementation of online college management system." 2010 International symposium on intelligence information processing and trusted computing. 978-0-7695- 4196-9/10 IEEE.

[6] Zhi-gang YUE, You-wei JIN, "The development and design of the student management system based on the network environment", International Conference on Multimedia Communications, 978-0-7695-4136- 5/10 2010 IEEE.

[7] TANG Yu-fang, ZHANG Yong-sheng, ,"Design and implementation of college student information management system based on the web services". Natural Science Foundation of Shandong Province (Y2008G22), 978-1-4244-3930-0/09 2009 IEEE.

[8] Web portals and higher education; technologies to make it personal: Richard N Katz.

[9] The new international Webster's comprehensive dictionary of English Language.

[10] BBC English Dictionary.

[11] Educational Portal Strategy; Alf Neuman (University of Cologne, Germany), Henrik Hanke (University of Duisburg-Essen, Germany).

[12] M.A. Norasiah and A. Norhayati. "Intelligent student information system". 4th International conference on telecommunication technology proceedings, Shah Alam, Malaysia, 0-7803-7773- 7/03 2003 IEEE.

[13] Jin Mei-shan1 Qiu Chang-li 2 Li Jing 3. "The Designment of student information management

system based on B/S architecture". 978-1-4577-1415-3/12 2012 IEEE.

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