ISSN No. 0976-5697

Volume 8, No. 5, May – June 2017

International Journal of Advanced Research in Computer Science

RESEARCH PAPER

Available Online at www.ijarcs.info

WEB ENABLED DIGITALIZATION ADMISSION PROCESS FOR ACADEMIC INSTITUTIONS

T.Mohan
PG Scholar,
Department of computer Application,
University College of engineering, BIT campus,
Tiruchirappalli, Tamilnadu, India.

Dr.T.Senthil Kumar
Dean,
Department of computer Application,
University College of engineering, BIT campus,
Tiruchirappalli, Tamilnadu, India.

Dr.A.Valarmathi
Assistant Professor / HOD,
Department of computer Application,
University College of engineering BIT campus,
Tiruchirappalli, Tamilnadu, India.

Mrs. S. Nalini
Assistant Professor,
Department of computer Application,
University College of engineering BIT campus,
Tiruchirappalli, Tamilnadu, India.

Abstract: "Web-enabled digitization admission process for academic institutions "provides an interface for the upkeep of student information. It can be used by an educational institution to keep the records of students easily. The creation and management of exact, up to date information regarding a student's academic career is perilously important in the colleges. Our intention is to make admission process through the college website using online. It helps the students to address upload/change, photo upload/change and bonafide certificate printing in online. It also generates the date wise and branch wise report. In this project undertaking all types of the student details, academic details, college details, course details, placement details and other related details also.

Keywords: digitalization; admission process; Report, web based;

I. INTRODUCTION

It tracks all the details of a student from the day one to the end of the course which can be used for all reporting purpose, tracking of attendance, progress in the course, completed semesters, years, coming semester year educational details and all these will be available through a secure, online interface embedded on the college website [5]. Achieving this objective is complicated using a manual system as the information is scattered, can be redundant and collecting compatible information may be very time-consuming. All these problems are solved using this project. This project mainly focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paperwork and automating the record generation process in an educational institution [4].

II. LITERATURE SURVEY

[1] Web Based Student Information Management System:

The purpose is to design a college website which contains up to date information on the college [1][2]. That should improve the efficiency of college record management. The system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that subsystem. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. In addition to a staff user interface, the system plans for student user interface, allowing users to access information and submit requests online thus reducing processing time [1]. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security.

[2] A Research Paper on College Management System:

The project is defined as an application based on Intranet that aims to all the levels of management providing information within an organization [2]. This system can be used as an information management system for the college. The front-end will be HTML pages for client-side validation with JavaScript whereas all business logics will be in Java reside at middle layer [3]. The third layer of the database will interact with these layers, which would be Oracle database. The web server would be Tomcat 5.5 version. The server has Tomcat5.5 the web server is required to start working on this project environment like Java Runtime Environment (JRE) as a development environment and Oracle10g as the database [2].

[3] Student Query Management System in Android:

Improve the academic administration processes leaving more time to concentrate on our core activities of teaching, learning,

and research [3]. We propose and implement a new and realistic system for student's as well as for teachers as through this system students can ask queries at any time and get a quick reply from teachers. The teacher can upload assignments, notes and update about extra lectures, exam time table, and notices also. This will reduce the manual work as well as paperwork [3][4]. Help to access the system to all necessary personnel. Effective student query management [3].

[4] A Framework for Web Based Student Record Management System:

The data framework is essential in gathering all information also data of all staff or part in one association to be in one spot [4]. The framework is typically given extremely accommodating errand that will supplant the human as to keep it in the record as the stock or different purposes. To outline a supportive framework with a specific end goal to make simplicity to the client, the framework is created by utilizing Xampp Server interfacing with a database that is using 'PHP' language as the dialect or guideline of the framework [5]. The proposed framework is a standalone framework. This framework centered on recording and updating the information. It is additionally given a report on the other hand printed record to the client in the framework which will make the status of the student simpler to be checked [4] [6].

[5] Online College Management System:

The design and implementation of a comprehensive Online College Management System and user interface is to replace the current paper records [5]. College Staff are able to directly access all aspects of a student's academic progress through a secure, online interface embedded in the college's website. The system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that subsystem [1]. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. In addition to a staff user interface, the system plans for student user interface, allowing users to access information and submit requests online thus reducing processing time [5][4]. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security [6]. The system features a complex logging system to track all users' access and ensure conformity to data access guidelines and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student records to users [5].

[6] Student Information Management System on MEAN Stack technology:

The design and implementation of a comprehensive student information system and user interface is to replace the current paper records [6]. College Staff are able to directly access all aspects of a student's academic progress. The system utilizes user authentication, displaying only information necessary for an individual's duties. The Application is developed using the MEAN stack- a complete open source stack written in JavaScript [2]. The name MEAN is an acronym of the stack components - MongoDB, ExpressJS, AngularJS and Node.JS. All data is thoroughly reviewed and validated on the server before actual record alteration occurs [6]. This approach represents an efficient Student Information Management System on MEAN Stack technology using JavaScript language at both client and server side. And all the computation done on the client side[3]. Thus the development of college management system, which is helpful for Reduction in manual work so less manpower required [1][6].

III. PROPOSED SYSTEM

This project make admission process through the college website using online. It helps to students address upload/change, photo update/change and bonafide certificate printing in online. It's also create the date wise and branch wise report.

- Providing the online interface for students, faculty etc.
- Increasing the efficiency of college record Management.
- Decrease time required to access and deliver student records.
- To make the system more secure.
- Decrease time spent on non-value added tasks.

IV. OBJECTIVE

- Student admission process through the online in anywhere.
- Create an admission report in date wise and branch wise.
- Student address and photo change and update using online.
- Bonafide certificate request and print through our college website.
- Student profile view.
- Long absent student entry by HOD using secure login.
- Re-admission registration form filling through our college website.

V. MODULES

Registration From:

To enter the student details such as registration, Application number, name, date of birth, address, academic details and photo.

Admission card print:

Print the admission card automatic generated and it have some information of the student such as registration no, admission no, name, department, photo, date of admission, contact number.

Admission Report:

View and print date wise and department wise admission report.

Student profile:

View the all information about the student. This module shows the basic and academic details about the particular student.

Address update:

This module helps to new address entry and change old address through the online.

Photo upload:

This module process the student new photo upload and change the old photo to new photo.

Bonafide certificate:

Automatically generate bonafide certificate for user needed purpose and print that certificate.

Long absent entry:

This module to enter the long absent student details via authorized users only. Ex. HOD, Class Coordinators.

VI. ARCHITECTURE

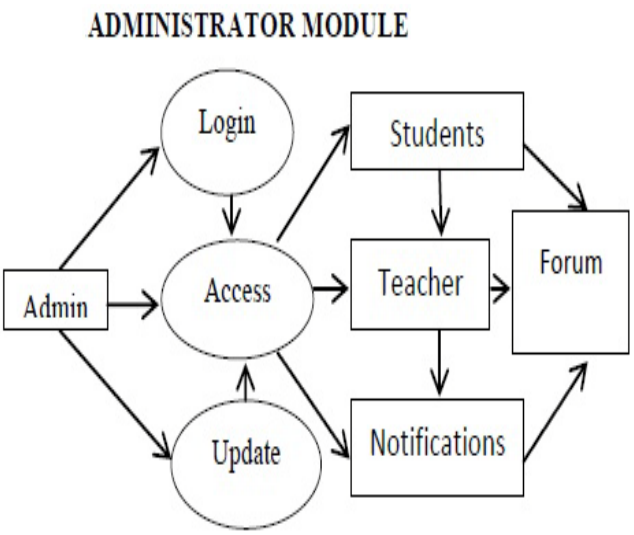

Figure 1. Flow of work

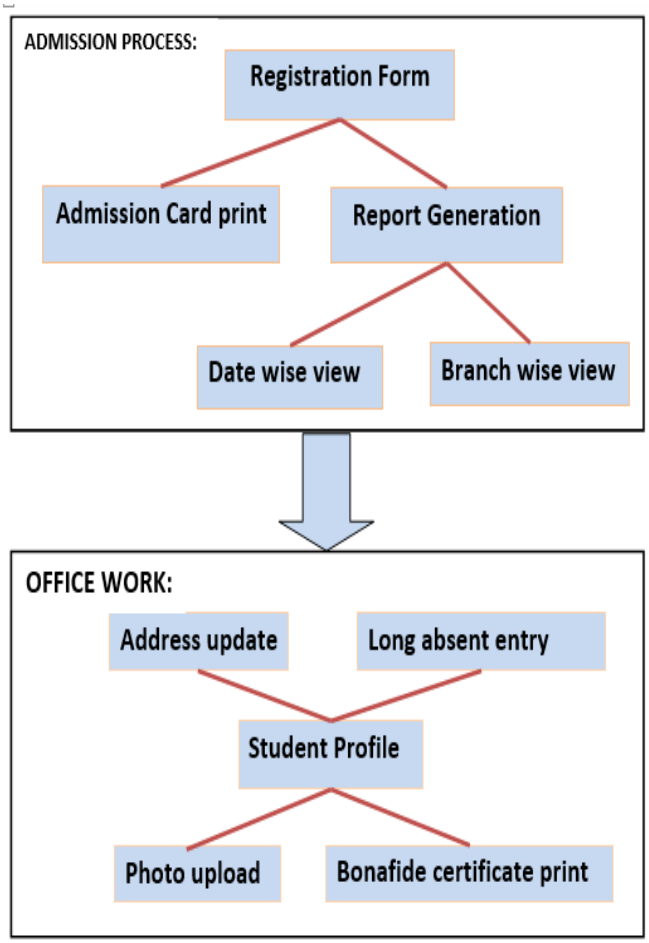

Figure 2. Proposed System Architecture

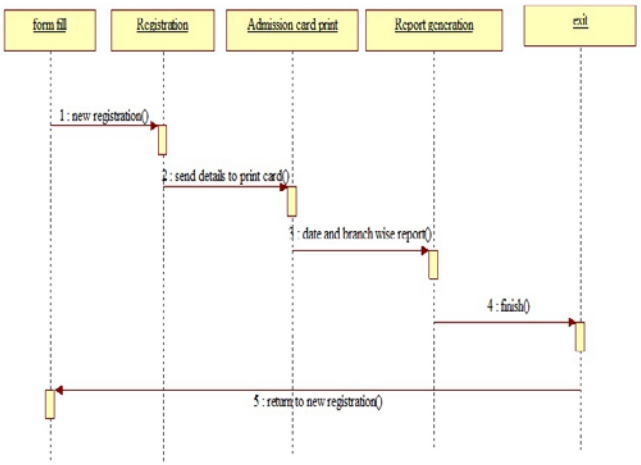

Figure 3. Sequence Diagram

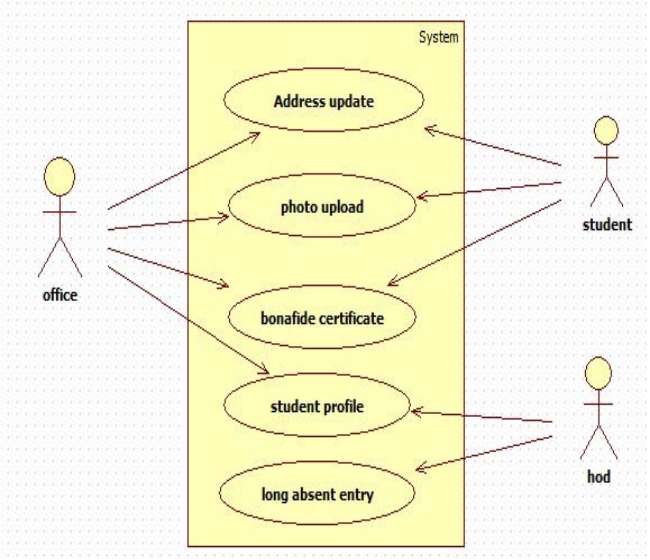

Figure 4. Usecase Diagram

VII. RESULTS

The system starts with login page where the registered user can enter user name and password to be able to access the system. Password can be stored in encrypted format in the database. In this project have two databases, one database can manage all information about the student and another database can manage other information's such as long absent entry.

Staff once complete the admission details, it will be stored in database. That admission details such as student name, DOB, address, photo, old college details, admission date and number, course details and etc.,

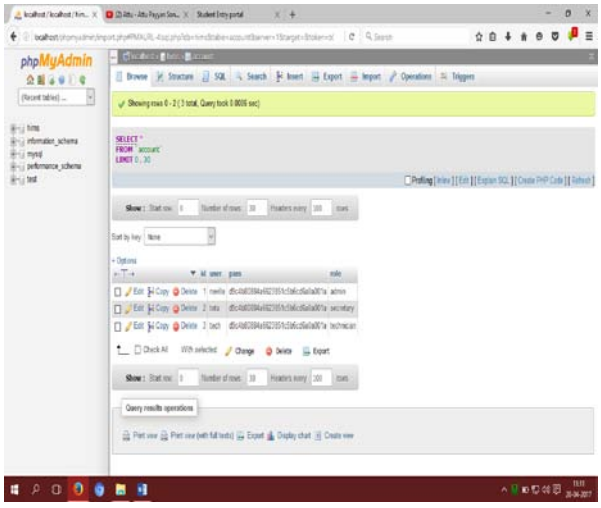

Figure 5. Database

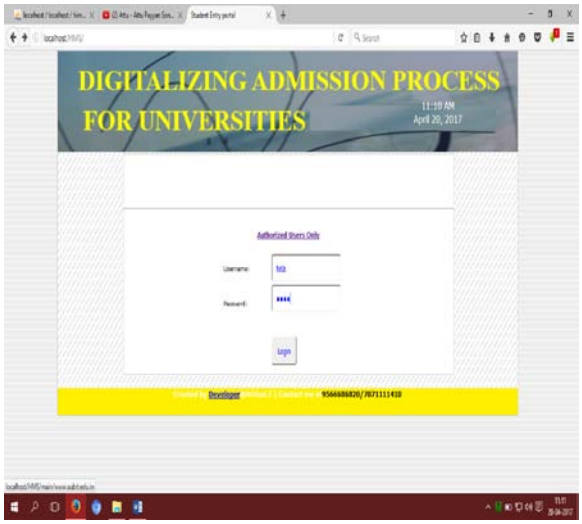

Figure 6. Login Module

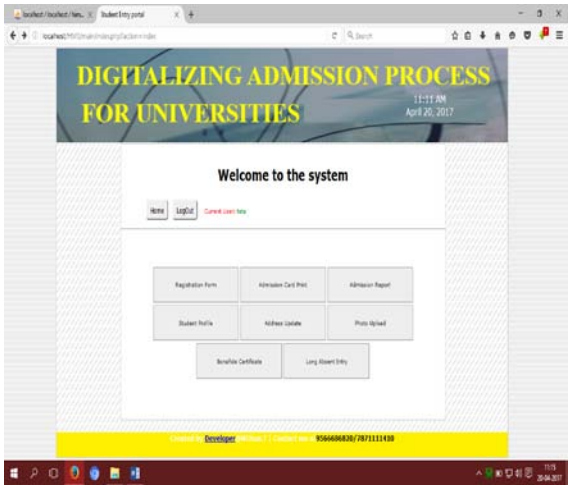

Figure 7. Main module

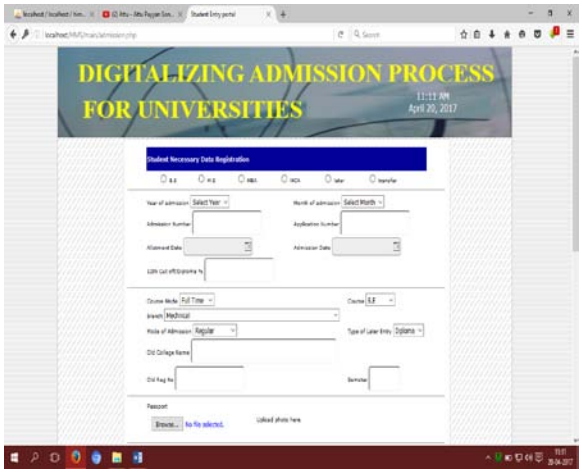

Figure 8. Admission Form

VIII. CONCLUTION

This paper serves in automating the present manual system. This is a paperless work. It can be watched and managed remotely. It decreases the manpower needed. It gives accurate information forever. Misbehaviour can be decreased. All years collectively gathered data can be saved and can be accessed at any time. The data which is stored in the repository helps in taking quick decisions by the administration. So it is sufficient to have a Digitalizing admission process. All the students, faculty and management can get the necessary information without delay. This system is required in the colleges and universities.

IX. REFERENCES

[1] S.R.Bharamagoudar, Geeta R.B, S.G.Totad, "Web Based Student Information Management System", IJARCCE, Vol. 2, Issue 6, June 2013.

[2] Er. Saurabh Walia, Er. Satinderjit Kaur Gill, "A Framework for Web Based Student Record Management System using PHP" IJCSMC, Vol. 3, Issue. 8, August 2014, pg.24 – 33.

[3] Mali Shital, Kulkarni Archana, Metkari Ashwini, Shendage Rupali, "Student Query Management System in Android" IJARET, Volume 3, Issue III, March 2015.

[4] Lalit Mohan Joshi, "A Research Paper on College Management System" International Journal of Computer Applications, Volume 122 – No.11, July 2015.

[5] Kartiki Datarkar, Neha Hajare ,Nidhi Fulzele, Sonali Kawle, Vaibhav Suryavanshi, Dipeeka Radke "Online college management system" IJCSMC, Vol. 5, Issue. 4, April 2016, pg.118 – 122.

[6] Bahubali Akiwate, Ayazahmed Patel Tasleem Nabiwale, Namita Naik, Suraj Patil, "Web Based Student Information Management System using MEAN Stack" IJARCSSE Volume 6, Issue 5, May 2016.