



Quality Education through Paperless Evaluation

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Abstract — The maintenance of the entities information is an integral part of an organizational experience and plays a significant role in improving the organizations performance effectively. The current system for the education being used at most of the colleges relies on an inflexible and inaccurate paper system that uses outdated, labour intensive technology, it requires sufficient administrative effort and it is very time consuming.

We are emphasizing on developing this project that will help the different college entities to use the services provided in the college by making use of paperless work in different college/organizational institutes. For this, we are implementing distributed application “Quality Education through Paperless Evaluation” on the basis of web technology. It adds more functionality to already abundant work done in the college institutes. Using this project most of the work in the college institutes can be done without making use of paper. This project involves different entities of the college to log in perform their respective work.

Our proposed system aims to provide benefits to the different college entities to do their work efficiently and timely manner. Quality Education through Paperless Evaluation system will develop to significantly reduce the staff workloads almost to zero. It requires less administrative efforts for all activities of college. Our proposed system will provide a common platform for training and placement services, student attendance, teacher’s attendance, teaching performance evaluation and also maintains profiles of all college entities.

Keywords- Student information system, Feedback to student, College management system, Quality education, Evaluation, report.

I. INTRODUCTION

Administration and management/organization includes a wide variety of tasks. It is therefore necessary at the outset to note the broad areas that will affect the management of school/colleges. Among these are decision-making programs, staff developments activities, time management sessions, teaching performance evaluation, feedbacks from students and reporting to the staffs. More specifically, however are the management and administrative tasks within the organizational environment. These include administrative planning, budgeting, financial control, bookkeeping, staff records, student records, timetabling, circulars/regulations and reporting, staff and students information management.

Many schools and colleges are faced with the dilemma of coping with increased responsibilities and the rapidly changing and often massive flow of information involved in managing institutions. Given the limited human resources at the disposal, management will need tools that can help to enhance the administration of their institutions, while providing the greatest transparency and accountability.

School and College management is therefore among those who will have to adapt to the new paradigm by linking on new strategies and embracing new technologies. The main advantage for using our proposed system is the ability to eliminate duplication of effort. Once data is stored in the system, all authorized users across the various departments and different physical locations may access it. And this, they may even do concurrently. This eliminates the need to replicate documents all the time to send to different departments or personnel. The integrated approach also reduces the manual effort involved in inputting and storing data. Of course, there is also the real opportunity of reducing errors and eliminating the tediousness of long and repetitive manual processing.

Here, we provide an application that is not only used by students but also all entities working in college. Our project is quality education through paperless evaluation. It is required to design a Fully Computerized Automated System, to speed up and to make it easy to use system.

1.1 Aims and Objectives

The main aim of the system is to automate the processes that are carried out in the school/colleges with the improved performance and realize the vision of paperless work and fully automated management system.

The proposed system for college institutes would definitely help the user by saving time and effort by reducing the processing time and volume of errors occurs at the time of evaluation.

The main objective of developing the current project entitled “Quality Education through Paperless Evaluation” is to build effective system which is fast, accurate, consistency, reliable and flexible enough so that it can incorporate any future enhancements. By automating the system using computers, sophisticated technology can be used for making the information more flexible, accurate, and secure and user friendly. Time and man power can be more effectively utilized and online information can be easily available to the user and at the same time we can maintain higher level of security. Every user such as student, staff and administration can able to see the information of each student through online from anywhere and anytime.

II. EXISTING SYSTEM

In the existing system which is carried out mostly in all colleges, we had just results that are usage through manually, here student can check through the computers from a personal computer located at a particular point in place.

2.1. Problems with the existing system process

- Institute incurs expenditure on printing of various activity forms, and in absence of any reliable forecasting system on how much application it is going to receive it may overspend by printing excessive application forms or may fall in crisis if there is access demand of application forms.
- Once printed, changes to the application form are not only difficult but also incurs additional cost.
- Wastage of institute’s resources as same information has to be imparted to candidates / guardians individuality.
- Candidates have to queue up numerous times i.e. to collect form, to submit form, to view merit list, etc.
- Chances of form misplaced are very high, because of huge number of application.
- Wastage of institute’s resources due to involvement of people/teacher in form collection.
- It is tedious and time consuming process to list out the data of candidates, manually check them against the document submitted, resulting in delay and wastage of valuable resources.
- Multiple lists often leads to duplicate of work for institutions, even candidates/guardians have to visit again and again in colleges.

2.2. Disadvantages of existing system

- More time
- More money
- More manpower
- More work
- Less work result
- No accuracy

III. PROPOSED SYSTEM

Regarding the literature research and taking it into consideration its drawbacks and limitations, we proposed the web based Quality education through paperless evaluation system to rectify the existing limitations of paper based system. In this proposed system we are going to develop a web application software which will eliminate all the drawbacks of existing system, which consist of the following dynamic features:

- Common platform for academic courses, value added courses and invited talks.

- Only authorized students and principal, heads, coordinators can access the system with the use of username and password.
- Common platform for training and placement services. Common platform for student's attendance system.
- Platform for staff, admin, committee, principal to evaluate performances of overall college.
- Common platform to maintain data of student, staff, hod and principal. Common platform for staff/teachers and students to upload and download assignments and study materials and make necessary reviews.
- Students can review their academic performances easily when they wish to see.
- Students and staffs can access their required informational details at any time they want. There is no need to carry hardcopies of their details.
- The above system is more secured than traditional system because here we provide more security. Instead of giving login to individual users here we given this authority to college admin. First college admin will register the students, staffs and all college entities and then the respective user accesses the system with the help of username and password given by the admin. If any user wishes to change their credential details he need to contact with college admin.
- The one of the most important future scope of the above system is that only changing some modules of the application we can use the above application for different business purpose.

3.1 Study of technology: ASP.NET

- Microsoft released the first version of ASP.NET in 2002 – A powerful platform with lots of built-in functionality, faster, easier and more disciplined development of dynamic web sites.
- ASP.NET is a server-side technology for developing web applications (i.e. dynamic web site) based on the Microsoft .NET Framework. When a visitor visits a web site written in server-side technology, the server reads the code then processes it according to the direction (gets data from the database if needed) and then sends back the result of the processed code in HTML format to the web browser, which treats the received code a standard HTML page. ASP.NET pages have the **.aspx** file name extension, and can be placed on any web server that supports ASP.NET.
- When a client requests an ASP.NET page, the web server (IIS) looks for files with the **.aspx** extension and passes the page to the ASP.NET runtime (**aspnet_isapi.dll**), a program that runs on the web server that's responsible for reading the page and compiling it into a .NET class by generating an **asp.net** page object. This object file is then used to produce the HTML that's send back to the user. Each subsequent request for this page avoids the compilation process: the .NET class can respond directly to the request, producing the page's HTML output and sending it to the client, until such time as the **.aspx** file gets modified.
- As time had passed, ASP.NET advanced and then, ASP.NET 4.0 came with extraordinary new features as well as an expanded and more powerful framework.

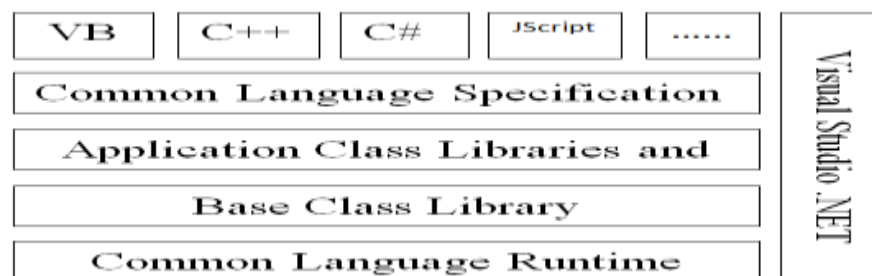


Figure 3.1. .NET Framework Architecture

IV. IMPLEMENTATION OF MODULES

4.1. Student Module

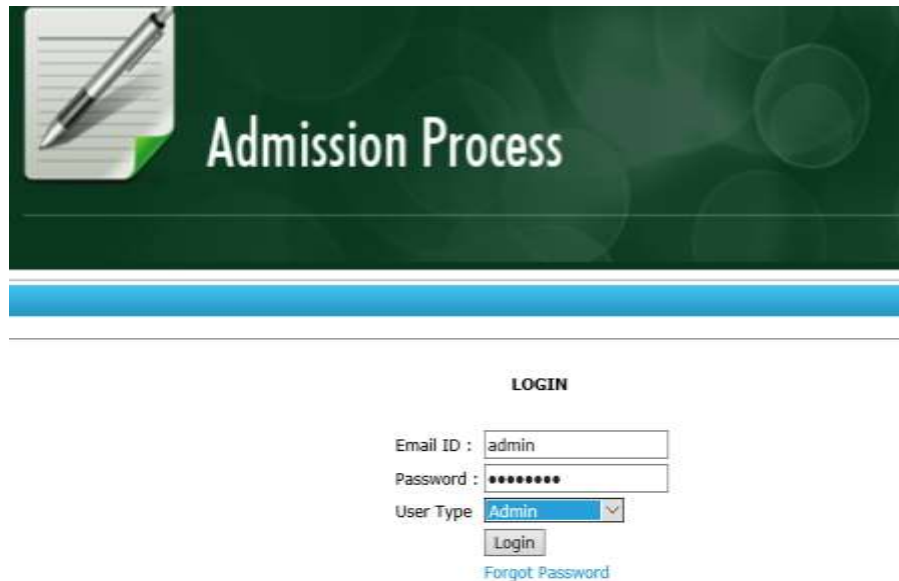
The student is of center focus, because in every college student plays the very important role. Student can access the information of the college, course details, subject details, faculty details, training and placement cell information and exam section information etc [1].

4.2. Staff Module

The staff can update the information regarding the student's attendance, internal marks of the students and any information regarding the subjects they handle. They can also view the student details for better understanding the student performance and improving the efficiency of the student. The staff also gets the updates from the college regarding any events occurring in the college. They can also get the notifications from the placement cell and exam section [1].

4.3. Administration Module

The administrator is responsible for entering the new student, promoting the student from one class to another, from one semester to another and from one year to another. Managing the student accounts like any changes regarding to the name, address etc. The administrator also manages the faculty accounts like entering a new faculty, assigning the faculty to the subjects. The administrator also updates the college related information like calendar of events, information regarding any other events that occur in the college. The administrator will check the all the updates i.e. student updates, faculty updates, exam updates etc. The administrator has the highest level of power in the student information system [1].



Admission Process

LOGIN

Email ID :

Password :

User Type :

[Forgot Password](#)

Figure 4.1. Login page



Figure 4.2. Assignment master

V. METHODOLOGY

Rapid application development (RAD) was used as the system development method. The proponent utilized rapid application development approach in order to ensure that the system is really the users need. Rapid application development is a development lifecycle designed to give much faster development and higher quality results than those achieved with the traditional lifecycle. It is designed to take the maximum advantages of powerful development software. The RAD (Rapid Application Development) model is based on prototyping and iterative development with no specific planning involved. The process of writing the software itself involves the planning required for developing the product. Rapid Application development focuses on gathering customer requirements through workshops or focus groups, early testing of the prototypes by the customer using iterative concept, reuse of the existing prototypes (components), continuous integration and rapid delivery [7].

RAD compresses the step-by-step development of conventional methods into an iterative process. The RAD approach thus includes developing and refining the data models, process models, and prototype in parallel using an iterative process. User requirements are refined, a solution is designed, solution is prototyped, the prototype is reviewed, user input is provided, and the process begins again.

VI. CONCLUSION

This project presents a method for increasing information requested by students with the use of automated Quality education system. In this system college entities can check the details regarding their work directly through the above web application software. Instead of contacting with faculties and admin they can directly access the required information. Our project helps educational institute to do regular activities accurately, fastly and reliably. Our proposed system helps the students and staffs in different manners like students can save their information in the automated system and access when they want. Students can upload their assignments for faculty review and download the respective study materials for daily use.

Similarly staffs can maintain the students class wise details in the system. Staff can download the student's information, their assignments for the review and after review he/she will update the each student's grade. This system is also useful for training and placement services where students get the details of recruitment companies. Hence we conclude that the present system would definitely help the users by saving time and effort by reducing the processing time and volume of errors. The efficiency of the work done would be improved and work satisfaction on the part of the employees after computerization would definitely on high. The customer satisfaction would be definitely higher when compared to the old manual system.

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