Design and Development of Online Application Management System for Educational Institute

[1]Ms. Sakshi Khalode, [2]Ms. Geeta Bawane, [3]Mr. Suraj Bagade, [4]Ms. Anuja Ghasad

[1,2,3]UG student, [4]Assistant Professor

[1,2,3,4] Department of Information Technology,

[1,2,3,4]Nagpur Institute of Technology, Nagpur, India

Abstract: The most common problem faced by students these days is related to Attendance when they miss to submit an application of leave. They get short of attendance because in the case of emergency, they are unable to send their application. Sometimes due to lack of co-operation they lose their attendance of workshops they actually attended. Sometimes they do not even get the information about the upcoming events which would be beneficial for them. Our technique coming up with ideas, known as brainstorming. Keeping these problems in our mind over all the possible solutions, we generate an idea of creating an application which would solve all above stated problems. In the discussion we create such a system which manage the all type of application of student. This idea overcome all the traditional file system. This application focuses on all type of application as well as attendance of student. It provides all the related details of working days, holidays, events & workshops taking place in the college. AMS is internet base web application that can access by anyone, anytime, anywhere throughout the department or the organization. This system can be automating the workflow and their approval. AMS is reduce the work of paper and pen.

Keywords: AMS (Application management system), Attendance, Application, Students, Approval, Report generator.

I. INTRODUCTION

The objective of this system to Digitalize old file system. In the File system Faculty have to manage the file of the respected class. They have to handle not only one file but more than one file. They have to place that files in organized manner. There are so many possibilities such data loss like loosing of applications which results to less attendance. This system is flexible to access by not only faculty but also students so students can send the applications to respected faculty. Faculty can approve or reject the leave. It managing all type of applications such leave, permission etc. Admin can add the faculty, HOD and Dean. Faculty will add the students of their respected class. Faculty, HOD and Dean get ID, Password from admin and student will get from faculty. Everyone can update the ID passwords or any profile information on their own access. Student can check their leave status also many more operations can do by student and faculties.

Application management system is very convenient to use, simple to understand, the major use of designing such website is to provide a staff and students a better way to calculate their leave details. As the existing system increases the paper work and record maintenance. This is a tedious work, so there is a need of system which makes the record maintenance easy that is the common requirement for an organization.

II. LITERATURE SURVEY

In literature survey it is noticed that there are so many organizations which follow the traditional system i.e. file system. This file system is hectic and complex. Sometime data lose or sometime unable to organized papers. By keeping this idea in mind, we find some solutions over it.

Title	Author	Database used
Mobile HRM for online leave management system	1) A.Mohan Priya 2) G.Shyamala 3) R.Darshini	NA
Student Leave Management system	1) Vikrant Kumar Kaushik 2) Arjun Kumar Gupta	NA
Study paper on leave management system	1) Gargi Soni 2) Kshitiz Nagar 3) Mansi Fumakiya 4) Namita Raghuvanshi 5) Kamal Kadam	NA
Attendance Management System	1) S.K. Jain, 2) U. Joshi, 3) B. K. Sharma	NA

- *Vikrant Kumar Kaushik, Arjun Kumar Gupta, Ashish Kumar, Abhishek Prasad, "Student Leave management system", Under graduate Student, Computer Science and Engineering at SRM UniversityRamapuram Chennai (TN), IEEE 2017.*
  In this paper authors describe the limitation such the leave status cannot be cleared until and unless the HOD approves/rejects the application. The system fails if the server fails, but the data will remain stored in the database.

- *A. Mohanpriya, G. Shyamala, R.Darshini, "Mobile HRM for Online leave management system", Sri Shakthi Institute of Engineering and Technology, Coimbatore, India Anna University, Chennai, February 2017*
  "MOBILE HRM" has been developed to overcome the problem of manually applying leave which is time consuming.

- *Gargi Soni, Kshitiz Nagar, Mansi Fumakiya, Namita Raghuvanshi, Kamal Kadam, "Study paper on student leave management system", Computer Science and Engineering, Acropolis Institute of Technology and Research, Indore (M.P), December 2016*
  This paper is the base paper which handling only one type of application that is leave and attendance. The most popular forms of coding in these days is the generation of applications or apps, that can easily run on our mobile phones on any environment like android, windows or IOS. Now a day, the technology is improving drastically. It is being used in every arena.

III. PROBLEM DEFINITION

The existing system is file management system in which faculty handle the files of different files of different purpose. Faculty have to manage the applications, organized them and store them which result to time and space complexity. Also, this system reduces the risk and work.

IV. PROPOSED SYSTEM

The main objective of this system is to automate existing file system. It reduces the use of paper and pen and also reduce the complexities. The Admin added the faculty, HOD and Dean of the college. Admin also add faculty as per their class and department. Admin provide user ID and Password very initially, then they can change as per their requirement.

IV.I Leave Management system:

Student, Faculty and HOD can submit their application to their higher authority such student will submit to teacher, faculty will submit to HOD and HOD will submit to dean.
Likewise, faculty will remark to student, HOD to faculty and dean to HOD.

IV.II Attendance management system:

On daily basis, faculty will add the attendance if student on leave faculty can add their attendance as presented if they approve their leave. Every student can see their attendance on monthly basis also they can keep track on the applications if approved or rejected.
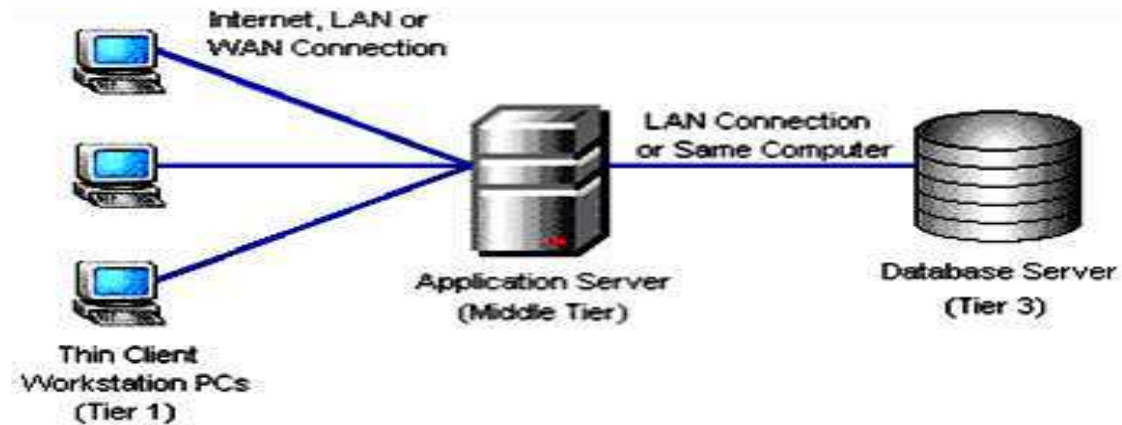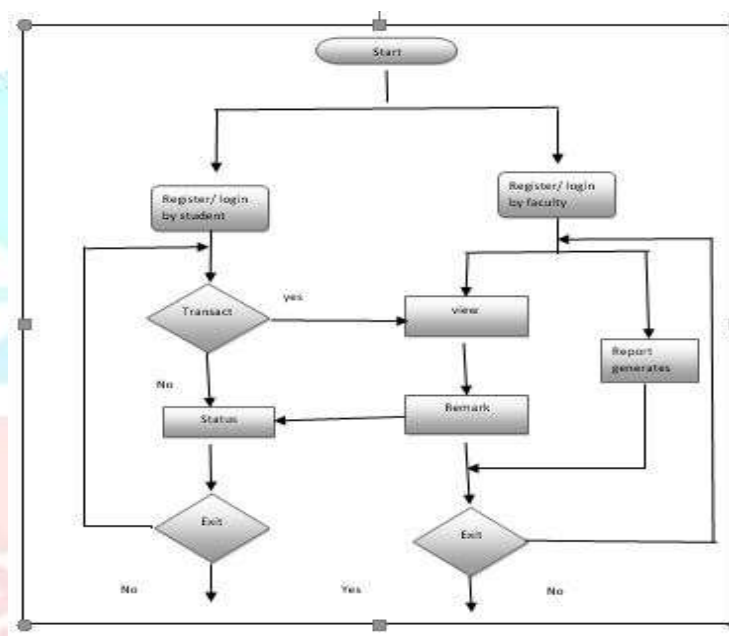

Fig: Block Diagram

Fig: Work flow

V. TECHNOLOGY USED

- .NET
- SQL

.NET is a software framework which is designed and developed by Microsoft. The first version of the .Net framework was 1.0 which came in the year 2002. In easy words, it is a virtual machine for compiling and executing programs written in different languages like C#, VB.Net etc.

SQL (pronounced "ess-que-el") stands for Structured Query Language. SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems.

VI. EXPERIMENTAL RESULT

Fig 1: Home page

This snapshot is of Home page from everyone can login through it. Also, this page shows the Total faculty with their name and number who have been registered.

Fig 2: Admin Panel

From this page admin can add HOD, faculty, Dean also shows report of faculty. It can track the applications which is pending or marked.

Fig 3: Faculty Module

Faculty module will add the student, remark the attendance, add attendance and etc.

Fig 4: Student Module

Student can apply for leave, keep track on it also can track the attendance on daily basis.

VII. RESULT AND DISCUSSION

In this dissertation, we have developed an approach which decrease the use of pen and paper. We know now a day's trees are more required because of global warming so this will little help to nature by reducing pen, paper use.

The proposed approach facilitates Student and faculty relation with one database. This saving large amount of space.

Such an approach can be used for several applications where relevant and required.

The execution time depends on the size of the database.

The result is all document are efficient, accessible, integrated, free of ambiguity and sequential.

VIII. FUTURE SCOPE

- We can use this system into any organization
- We also can extend this system into mobile
- Also, we can add more feature into this system like salary calculation.

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