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DIGITALIZATION OF STUDENT'S PROFORMA

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Abstract: This project is aimed to develop an online student's proforma for an educational institution. The proforma is a protocol to check the whether students are eligible to attend the semester examination or not by holding attendance as a criteria. In existing system the records are manually maintained by the administrative user. In manual maintenance there is a chance of data can be misinterpreted. This misinterpretation problem can be overcomed by digitizing of student's proforma. The need of digitalization in student proforma is importance for data processing, storage and data access, because this process allows information of all kinds with different input formats can be carried with the same efficiency. The leave notification is send via the email. The periodic crediting of leave is also automated in the attendance. This system check the constraints for taking leave by comparing leave history. The report generation will alert the candidates are eligible for semester examination or not. This student's proforma will reduce paper work and maintains record in more efficient way.

Keywords: digitization, attendance, email notification, proforma.

I. INTRODUCTION

Now-a-days, there are lots of colleges and Universities around the world and some of them consist of students up to thousands or more. To handle a large number of students may be a problem especially to get the attendance and leave of the students. The manual process is that whenever a lecturer comes to class, they came with a register and manually takes attendance by calling register numbers. This manual process has some flaws because in case where the students can cheat by saying attendance of their friend, the another problem is that the lecturer had to take care of the register and enter the attendance into the attendance log, calculate the attendance percentage. This would be a big problem in the colleges and Universities. It has become possible to share information through a network anywhere, anytime, since the development of high-speed internet and wireless communication infrastructure. Many universities or colleges have switch from traditional educational teaching models to more modern models using ICT and planning a strategy of a U-Campus, setting up an ubiquitous computing environment. Among them, in the case of online Attendance System, that is already a variety of goods and services has been launched.

II. LITERATURE SURVEY

[1] Gargi Soni, Mansi Fumakiya, Kamal Kadam "STUDY PAPER ON STUDENT LEAVE MANAGEMENT APPLICATION" in IJESRT international journal of engineering sciences & research technology December, 2016.

In India, most of the schools and colleges are not using this technology. They are still stuck up in old fashion of writing applications on paper. Authenticity of such approvals is also questionable. They may be fake. Thus our application is a revolutionary step towards the secure and more transparent way of submitting your documents which are genuine, certified and accurate. All calculations are to generate a report is done manually so there is some greater chance of errors. Here the faculty has to suffer a lot through the calculation and if there is a loss of some report then it may cause a lot of problem. This is time consuming also due to overestimate calculation [1].

[2] Ayazahmed Patel "WEB BASED STUDENT INFORMATION MANAGEMENT SYSTEM USING MEAN STACK "May 2016.

This paper provides a easy way for maintaining the student information's for the institutions. It can be used by educational institutions to maintain the records easily. Achieving this goal is difficult using a manual system as the information is disorganized and it can be redundant and collecting relevant information may be very time consuming. This project focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paper work and automating the record generation process in educational-institutions [2].

[3] Vishwakarma R Ganesh "ANDROID COLLEGE MANAGEMENT SYSTEM" International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) April 2016.

This CMS is an Intranet based application it can be accessed throughout the organaizatios or a specified department. This system (C.M.S) is being developed for an engineering college to maintain and facilitate easy access to information. For this the users must be registered with the system after which they can access as well as modify data as per the permissions given to them [3].

[4] Lalit Mohan Joshi,"A RESEARCH PAPER ON COLLEGE MANAGEMENT SYSTEM" International Journal of Computer Applications, July 2015.

CMS is defined as an application based on Intranet that aims to all the levels of management providing information within an institution. This system can be used as a information management system for the college or education institutions. For a given student/staff the Administrator creates login id and password, using these student/ staff can access the system to either upload or download some information from the database [4].

[5] Sayali Dombe, Prof. Sunil Yadav, Sneha Chikane, Pooja Ahire, Minal Landge," AUTOUPDATION OF SIP PROTOCOL LOG IN WIRELESS NETWORK FOR APPLICATION IN FACULTY MANAGEMENT SYSTEM" International Journal of Advanced Research in Computer Science and Software Engineering 5(5), May- 2015.

To overcome the complex and manual systems we have decided to come up with the technologically advanced Android App. The proposed system provides authentication server and the android phones which act as clients and the monitoring is going to be done through this android phones only. Mobile phone needs to have its wifi enabled and perfectly working to be able to establish connection with the central proposed system. There are various features proposed in the developing application. This project is loaded in the android phone and whenever the administrator wants to carry out any monitoring activity he needs to open the application in phone and use the features as per need [5].

[6] Pankaj K. Bharne, Prof. V. S. Gulhane," IMPLEMENTATION OF TIME MANAGEMENT SYSTEM WITH ERP SYSTEM FOR ACADEMIC INSTITUTE" International Journal of Engineering, Business and Enterprise Applications, 2 (1), Aug-Nov, 2012.

The main advantages of ERP for Academic institutions are, according to ECAR (EDUCAUSE Centre for Applied Research) organization, the following: Improved information access for planning and managing the institution. Improved services for the faculty, students and employees. Lower business risks. Increased income and decreased expenses due to improved efficiency. They have developed this system to utilize the available human resources in an individual worker to seek their cooperation in accomplishing the general goals of the organization. ERP for time management provides the key features for making the academic institutes more reliable with continuous growth [6].

III. EXISTING SYSTEM

In existing system the records are manually maintained by the administrative user. Here the attendance will be carried out in the form of hand written registers. It will be a difficult job to maintain the record for the user. The human effort is more here. This system requires correct feed on input into the respective field. Suppose wrong inputs are entered, the application resist to work. So the user finds it difficult to use. The existing system is not user friendly because the retrieval of data is time consuming and data is not maintained efficiently. The use of the some technology can be complicated and time consuming. These system need to handle by specialist for maintaining and update the system which can again be very costly. It requires more calculations to generate the report so it is generated at the end of the session. All calculations to generate report is done manually so there is some greater chance of errors. Here the faculty has to suffer a lot through the calculation and if there is a loss of some report then it may cause a lot of problem. This is time consuming also due to largest calculation. Even after that there is some miscalculation which is very frustrating for the faculty. These calculations also affects the marks of the students which will finally reduce to their percentage.

IV. PROPOSED SYSTEM

In proposed system chances of data losing is not possible because data is maintained in the form of database and digitalization of students information. Every day attendance, leaves and notices information is updated in to database using a user friendly GUI. This application is an online application which makes more flexible to access information. In case, if there is some holiday, then the data is being updated automatically under well-defined graphical user interface and thus this software also makes the work load less for the department and management class as well as make easy access to the information for the authorized persons.

V. OBJECTIVE

- Enable the process with efficient, reliable record maintenance by using centralized database, thereby reducing chances of data lose.
- Leave history can be reviewed.
- Applying constraints for taking leaves by comparing leave history.
- Alert notification through Email.
- To decrease the paper work.

VI. ARCHITECTURE

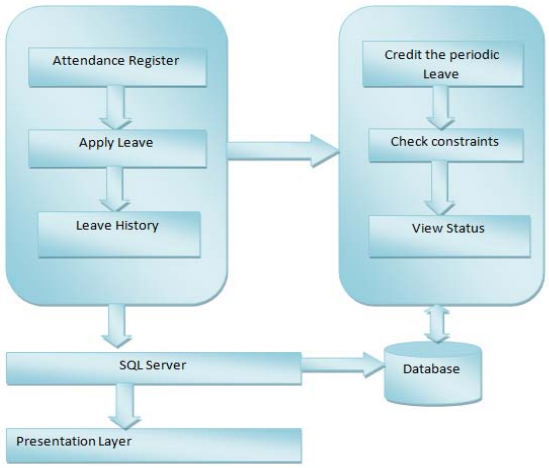

Figure 1. Architecture of Proposed System

Student can apply for their leave through online. Then the leave request is send to the head of the department email, and hod will approve or reject on the leave based on the leave history. Students can view their leave status via the presentation layer.

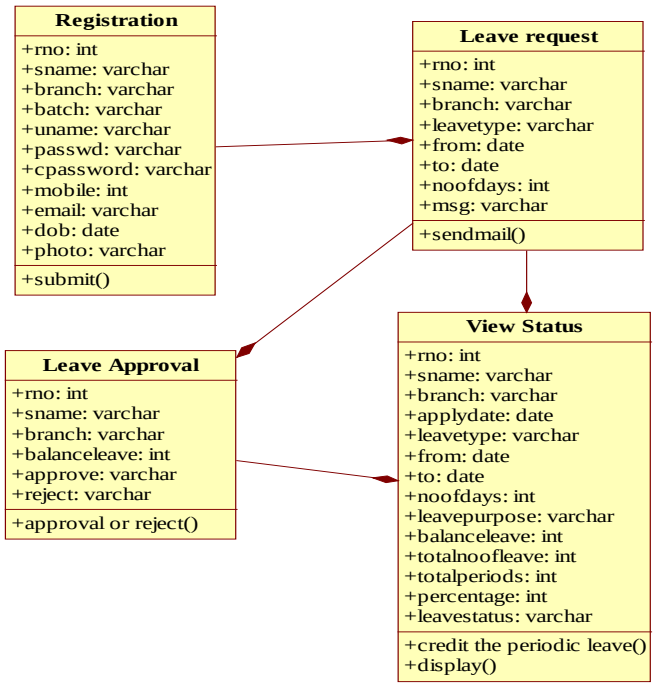

Figure 2. Class diagram

This class diagram explain about the objects and classes inside the system and the relationships between them.the registration class is contain the user detais and then it to be stored in database. Student can apply their leave request through online and their request is send to the mail. Then its send to the leave approval module.students can view their leave status leave status is approval or not.

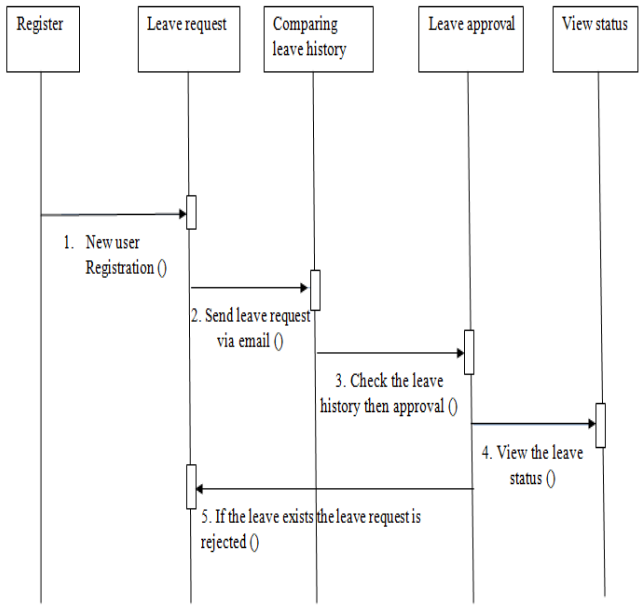

Figure 3. Sequence diagram

This sequence diagram is explained about the interactions between the classes in orderwise.first the new students can register their details and then login to their authorized username and password. They can apply their leave request through email. After that hod can view their leave history and then approve their leave request. If the student leave exists their leave request rejected.

A. Modules description

Registration:

This module is used to new user/student can add their details in the form. students can register their personal details in the system. This module is used to students can view their attendance details and leave status by their own username and password.

Leave History:

This module is used to maintain a attendance system. It consists of students proforma details in the form of attendance. Candidates who have secured seventy five percent attendance and between sixty five percent and above and less than seventy four percent and their shortage is due to medical or sports reasons are eligible for attend exam.

Apply Leave:

In this module students can apply their leave application through the online. User should with their own username and password. A case insensitive comparison is done for a user name and a case sensitive comparison is done for a password if the correct user id and password are supplied then, main menu of online leave form will be displayed to the user.

Request Intimation:

This module is used send the notification through the email. When the students can apply their leave from online at

the time the leave request notification send to their corresponding hod mail id. Then hod can view their students leave notifications and after that check their leave history. Then the approval leave if they are eligible to take leave. Otherwise if the student report is overcome seventy five percent then their leave application should be rejected by hod.

Credit Leave:

This module automatically the leave dates are credit in their attendance. The leave notification is approved or reject by the head of the department. If the leave is approval then the leave is credit in their attendance. It will calculate the percentage of attendance and will remind the students are eligible to attend the semester or not.

View Status:

This module is used to students can view their leave is approval or not. Students send the leave form to the head of the department through online. It will show the balance leave and attendance percentage of the semester. The report generation will alert the students are eligible for semester exam or not.

VII. RESULTS

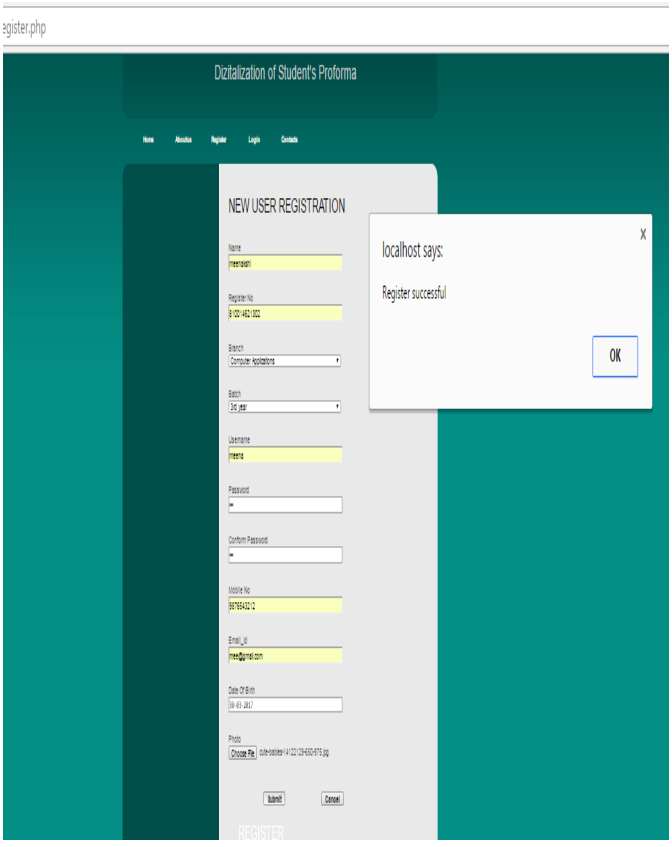

Figure 4. Registration

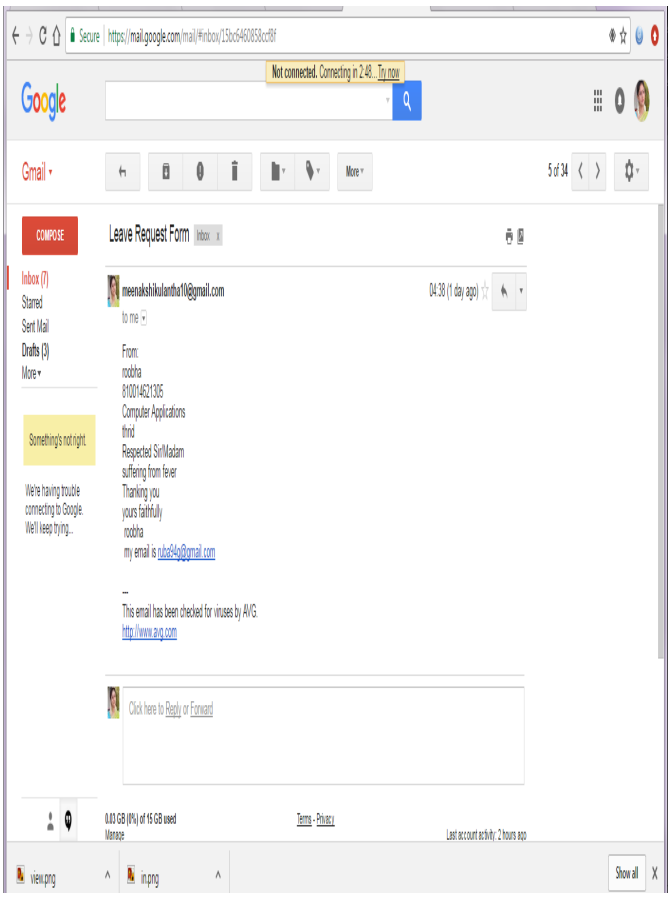

Figure 5. Request initiation form

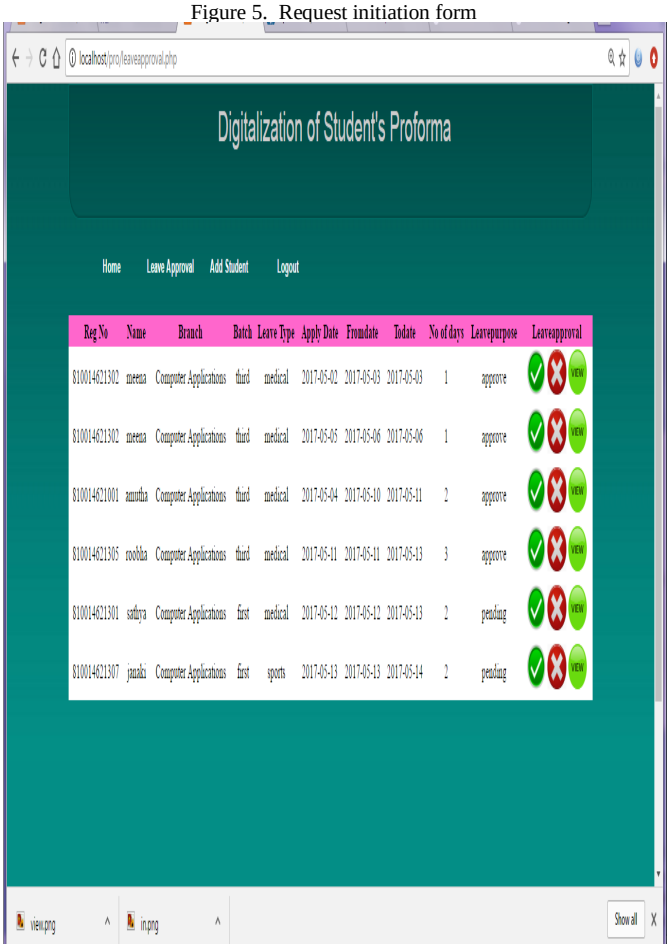

Figure 6. Approval status

Figure 7. View status

VIII. CONCLUSION

This system offers a reliability, time consuming and easy to access. It can be used as a base for creating and enhancing applications for viewing reports, tracking attendance for colleges. Students and their parents will also view attendance and curriculum details using this application. It provide high security and a system that reduces the work and resources required in traditional process. The proposed system provides the new way of computing and displaying records with responsive and attractive user-interface.

IX. REFERENCES

[1] Gargi Soni, Mansi Fumakiya, Kamal Kadam "STUDY PAPER ON STUDENT LEAVE MANAGEMENT APPLICATION" in IJESRT international journal of engineering sciences & research technology December, 2016.

[2] Ayazahmed Patel "WEB BASED STUDENT INFORMATION MANAGEMENT SYSTEM USING MEAN STACK "May 2016.

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[6] Pankaj K. Bharne, Prof. V. S. Gulhane," IMPLEMENTATION OF TIME MANAGEMENT SYSTEM WITH ERP SYSTEM FOR ACADEMIC INSTITUTE" International Journal of Engineering, Business and Enterprise Applications, 2 (1), Aug-Nov, 2012.