Notification System for College

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Abstract--- This paper proposes an online notification system for a particular college System [1]. The system consists of application such as leave application, resource procurement, and request status. The system allows user to track progress of application through email, [3] then system sends the information about application progress. As per the request made by user reply is sent to user.

Keywords: SHA algorithm, Approval status, Email Notification

I. INTRODUCTION

At present, in most of the schools, colleges, offices the way of applying the request is still in traditional manner i.e. by leave application, other paper works etc. Now this all involves lot of mistakes, mismanagement and longer duration for approval. Also for small-small reasons the applicant is told to write an application and involves wastage of paper.

Now as paper is made from trees, lots of trees are cut down, direct or indirectly effecting our environment. Also to know the status of his application or request, the applicant or user has to go to particular person to check the status. This also involves lot of time of an applicant or user.

II. SYSTEM OVERVIEW

A. Introduction to system design

The Architecture diagram shown in Figure 1.

Block used is as follows

1. User: User is any employee in an organization who has his profile created by administrator and can raise a request for leave or resource procurement.

2. College Notification System: User submits his request for leave or resource procurement through College Notification System. It is basically an interface through which user interacts with the system and can apply for leave or resource procurement request [3]

3. Request Processing Logic: This part handles the load balancing and request approval and rejection logic. Whenever a new request comes, it is assigned to a person who has least number of requests pending with him. For example if there are three persons A, B and C each having 2, 1, 2 request pending with them respectively. Now when new request comes it is assigned to a person B because it has less no of request pending with him as compared to others. Once the request is approved at one level it is sent to next level for approval. At next level also same rule is followed.[5]

4. Database: For storing information about employees, request and application which is confidential information hide using SHA algorithm.[2][6]

5. Email Notification: Deals with sending of Email to user who has applied the request when it gets approved from one level to other.[3][4]

6. Email Server: - This is an SMTP server which will send the email [3]

7. Message Creator: - It connects external system with local process to invoke this to create or send message. Message send such as application is approved by xyz user.

Fig. 1: Architecture

B. Process flow:

Registration

1. User sends request to administrator & administrator assign new account for the user.

2. For encryption of password SHA1 algorithm [2][6] is used and entries made in database.

3. Administrator decides the type of user and grants the access privileges

Fig. 2: Process flow

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Online submission of Request
1. User login to account and add application by giving application name and description.
2. Depend on who sending application mitigation algorithm is used for example if HOD sending application it will pass to Principle.

Sending Notice
1. Sends the notification using email if application is approved or password is changed. [3]
2. The upper layer can broadcast the message using Apriori algorithm to lower level about any notice such as holiday. [4]

III. METHODOLOGY

A. Apriori Algorithm:[4]
Single dimensional, single-level, Boolean frequent item sets.
Finding frequent item sets using candidate are large.
Algorithm:
Ci = Item sets of size one in I;
Determine all large itemsets of size 1, L1;
i = 1;
Repeat generation. Generating association rules from frequent itemsets.
SHA 1 Algorithm[2][6]
Secure Hash Algorithm (SHA) is the most widely used Hash Function in the world [6]. This version (SHA-0) was found to have a serious security flaw, though NIST never published the details of this, and was replaced in 1995 with SHA-1 [2].we are using for encryption of passwords.

IV. SOFTWARE SPECIFICATION

A. Adding a new Application
User can add application & it will be send to higher department.

B. View Application
User can see the application which he / she sent.

C. Add User
Higher department can add user of lower department.

D. Pending Application
When application from lower level to higher level is sent.
E. Email Notification

When user changes password or application is approved the users get notification via Email.

V. CONCLUSION

Transferring the entire structure to digital world. College notification System is web based system where a user can send his application request online. Due to no use of paper; Dynamic Workflow can be implemented in any Organization, School, and College etc. In this the user request passed through certain levels of approval. The user can at any point of time can track the status of his request and with whom it’s pending; the user will also come to know the reason for the rejection of his request if any. Email alert system, which will give alert message to users about their application and status.

REFERENCES

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