

# Leave Management System for ACE Faculty

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**Abstract-** In the existing Leave Management System, every college follows manual procedure. At the end of each month, administration department calculates leaves of every faculties that why that is time taking process and there are chances of losing data or errors in the leave register. Leave Management System for ACE is a web base system which can be accessed all over the college. This system for managing leaves related information of faculty's approval of leaves from the principal and head of department. The principal and head of department have permission to verify the leave request of their faculties. After verifying the leave application of faculties, the principal and HOD will give remark like approved and rejected.

**Keywords -** Faculty, Leave request, Institution, Types of leaves, Updating records, Approval/Rejection of leaves.

## I. INTRODUCTION

In the existing system paperwork related to leave management, leaves are maintained using the attendance register for faculties. The faculties need to submit their leaves manually to respective HOD which increases paperwork and maintaining the records becomes tedious.

The Leave Management System for ACE has been developed to override the problems prevailing in the existing system. Moreover this system is designed for the particular need of the college to perform operations in a smooth and effective manner. This leave management system for ACE will reduce work as well as possible to avoid errors while entering the data. It also provide error message while entering invalid data and no formal knowledge is needed for the faculties to use this system. Thus by this all it proves it is user-friendly system. Leave management system, as described above can lead to error free, secure.

## II.METHODOLOGY

The main purpose of this system is to management of leaves by online. The main concept of this project is to build a website which should be able to allow faculties/users to apply their leaves applications by online.

### 2.1 Development Phase

- Planning: Project selection, Preparation of documents
- Requirement Gathering: Data collections, Survey
- Design: Create system design, Data flow diagram
- Development: Develop the system planned on the design phase
- Testing: Testing of errors

### 2.2 Development Tools

Front-end Technologies:

This project used the following front-end technologies.

- HTML, CSS, JavaScript and BOOTSTRAP

Back-end Technologies:

This project used the following back-end technologies.

- PHP and MySQL

## III.MODELING AND ANALYSIS

In this project we are going to work on website and this project will help to reduce paperwork and save time in maintaining the leaves in Agnihotri College of Engineering Nagthana, Wardha. The Following are the five modules included in this project:

- Administrator and Principal
- Head of Department (HOD)
- Faculty Model
- Apply Leave Message by Faculty
- Confirm Leave Message by Principal and HOD

### 3.1 Administrator and Principal

In the Administrator and Principal model, the administrator has already username and password but the principal should be requiring registration first and this principal registration will be done by the administrator. After registration the principal will get username and password to login into the system after that he will add Head of Departments (HOD) of all branch, departments and leaves types. The principal can check how much leave applications are pending in my dashboard then he will take action on that applications and will send a confirmation email to the HOD and Faculty/applicant.

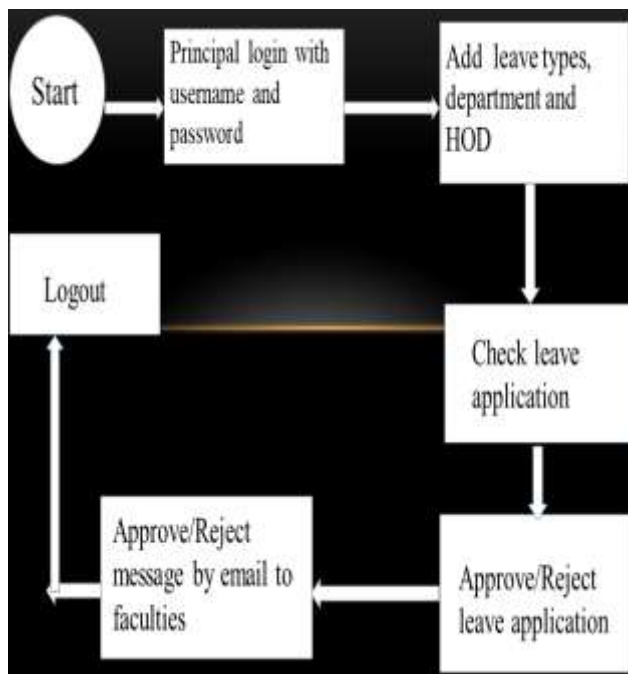


Fig.1: Data Flow Diagram for Administrator and Principal.

### 3.2 Head of Department (HOD)

In the Head of Departments (HOD) model, the HOD should be requiring registration first and this HOD registration will be done by the Principal of the college. After registration the HOD will get username and password to login into the system after that he will login in the system using that username and password then HOD can add faculties of particular departments and manage faculty profile. The HOD can check how much leave applications are pending in my dashboard then he will take action on that applications and will send a confirmation email to the Faculty/applicant.

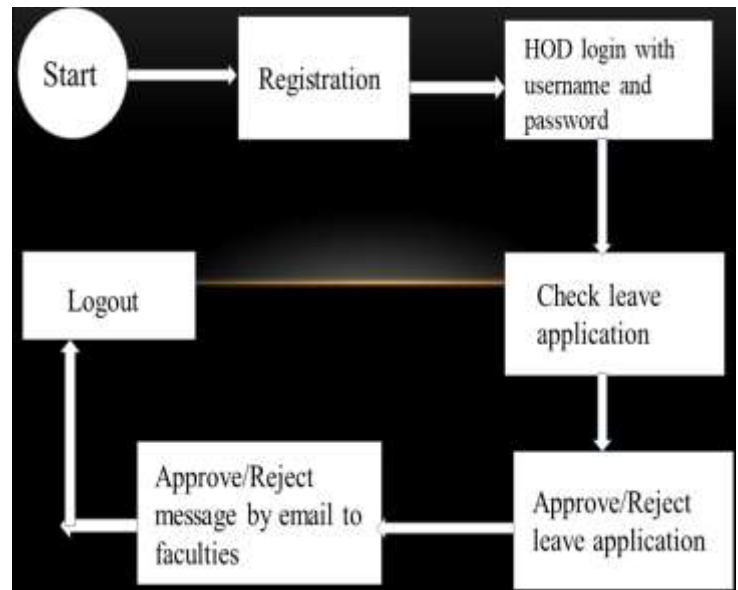


Fig.2: Data Flow Diagram for Head of Department.

### 3.3 Faculty Model

In the Faculty model, the faculty should be requiring registration first and this faculty registration will be done by the HOD of particular departments. After registration the faculty will get username and password to login into the system after that he will login in the system using that username and password then faculty can manage their profile, check leaves types, check leaves format then faculty can apply for leaves request after that they will send a apply email to the HOD and Principal. The faculty can check leave applications status in his dashboard.

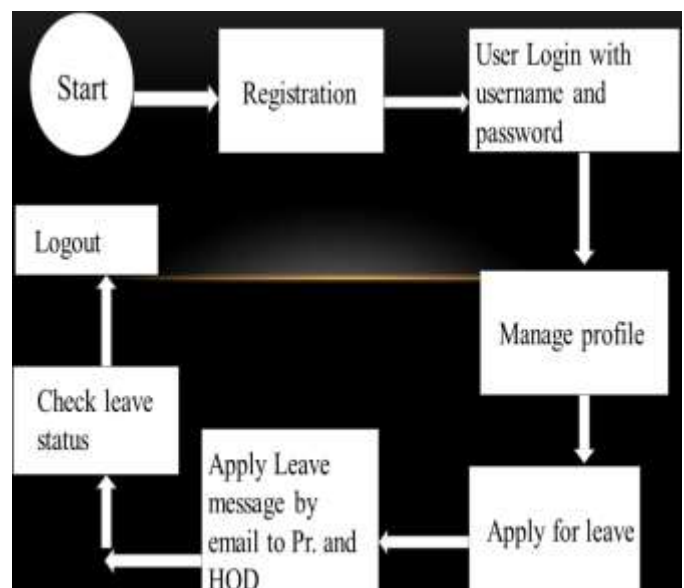


Fig.3: Data Flow Diagram for Faculty.

### 3.4 Apply Leave Message by Faculty

In Apply Leave Message by faculty model, when the faculty will apply for the leaves request then he will send an email message to the HOD of particular departments and the principal of college using apply leave email form and waiting for confirm leave email from the HOD and Principal. In the form there are some fields including the name of the faculty, branch of the faculty, email of HOD and faculty, subject, write a message for HOD and the principal and also he will upload leaves proof with this email form.

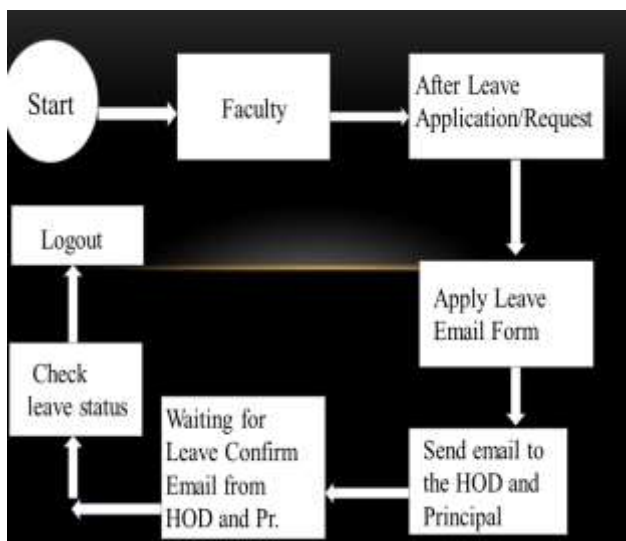


Fig.4: Data Flow Diagram for Apply Leave Email by Faculty.

### 3.5 Confirm Leave Message by Principal and HOD

In Confirm Leave Message model, when the faculty will apply for the leaves request then he will send an email message to the HOD of particular departments and the principal of college using apply leave email form but there is one another email form for the HOD and principal that is Confirm Leave Email form, using this form HOD and Principal will send the email to the faculty. In the confirm leave form there are some field including email of HOD/ Principal and faculty, subject, write a message for faculty and the one more benefits of this form the faculty can also use this confirm leave email form for message to the HOD and Principal.

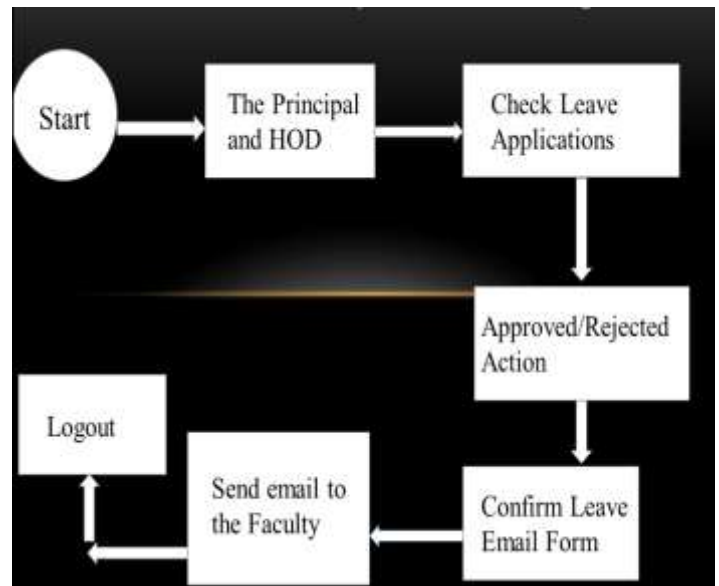


Fig.5: Confirm Leave Email Page.

## IV.RESULTS AND DISCUSSION

The login form/home page is the first graphical user interface displayed when the Leave Management System for ACE is launch figure: 6 show the login form/home page of the Leave Management System for ACE. The Faculty, HOD, Principal and the administrator can login using this home page and they have to enter accurate username & password to login into the system.



Fig.6: Home Page of Leave Management System for ACE.



Fig.7: Principal Page of Leave Management System for ACE.

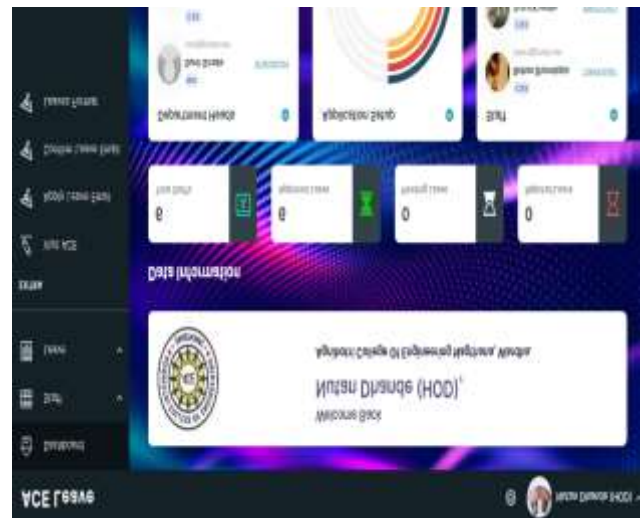


Fig.10: Head of Department Page of Leave Management System for ACE.

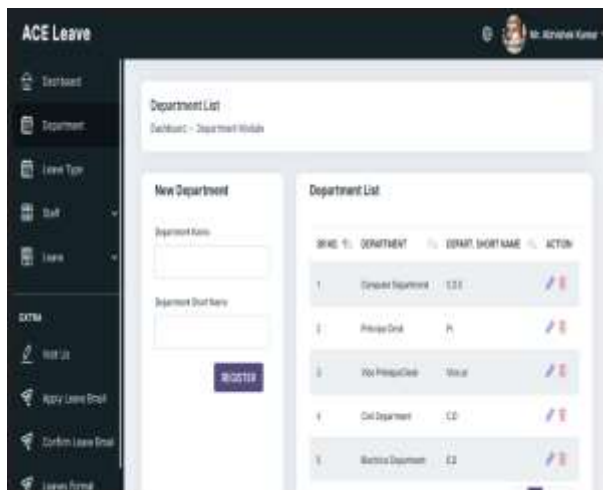


Fig.8: Creating Departments of Leave Management System for ACE by Principal.

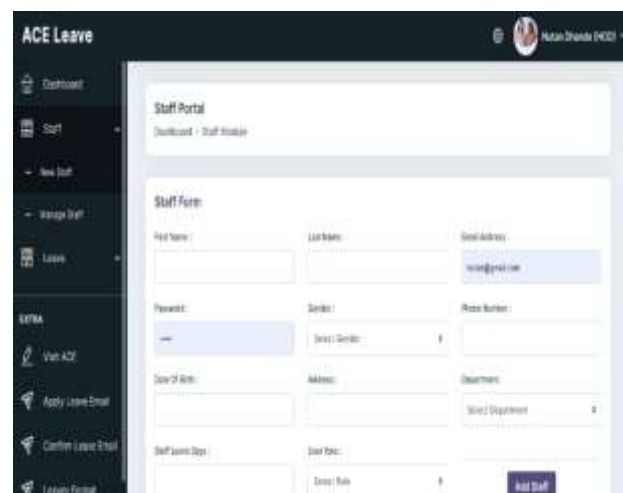


Fig.11: Creating Faculty of Leave Management System for ACE by Principal.

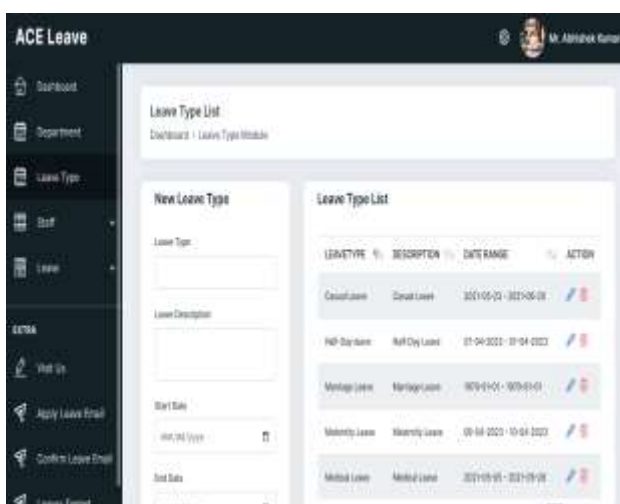


Fig.9: Creating Leave Types of Leave Management System for ACE by Principal

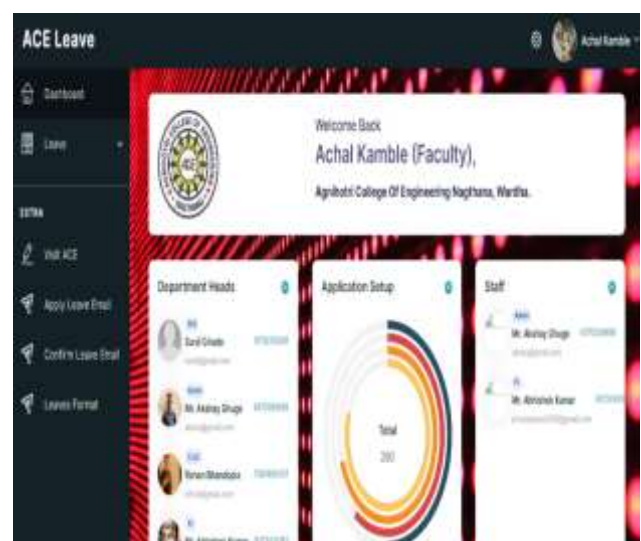


Fig.12: Faculty Page of Leave Management System for ACE.



The screenshot shows the 'ACE Leave' system interface. On the left is a dark sidebar with navigation options: Dashboard, Leave, Leave History, and Leave Form. The main content area is titled 'Edit Your Personal Setting'. It contains a profile card for 'Achal Kambale' with a photo and contact information. Below this is a form with fields for: First Name (Achal), Last Name (Kambale), Email Address (achal@gmail.com), Phone Number (9905524915), Date of Birth (29 December 2022), Gender (Male), Address (Mumbai), and Department (Computer Department). There is a 'Save & Update' button at the bottom right.

Fig.13: Profile Updating of Leave Management System for ACE by Faculty.

The screenshot shows a 'Reset Password' page overlaid on a background image of a modern building interior. The form has a title 'Create Password' and instructions: 'Enter your new password', 'Confirm your password', and 'Create your password'. It includes a 'Create Password' button and a 'Cancel' button.

Fig.16: Reset Password Page of Leave Management System for ACE.

The screenshot shows the 'Staff Form' for a leave request. It includes fields for First Name (Achal), Last Name (Kambale), Email Address (achal@gmail.com), and Available Leave Days (1). There are dropdown menus for 'Leave Type' (selected: Sickness Leave) and 'Department' (selected: Computer Department). Below these are fields for 'Start Leave Date', 'End Leave Date', and 'Reason For Leave'. An 'Apply Leave' button is at the bottom right.

Fig.14: Leave Request of Leave Management System for ACE by Faculty.

The screenshot shows an 'Apply Leave Email' form overlaid on a background image of a building with greenery. The form has fields for: Name, Email Address, Subject, and Message. There is a 'SEND EMAIL' button at the bottom.

Fig.17: Apply Leave Email Page

The screenshot shows a document titled 'Leaves Application Format...!'. It contains two sections: '1) Casual Leave' and '2) Medical Leave'. Each section provides a sample email format for leave application, including subject lines, salutations, and body text. The document is signed by 'Alokay Y. Ghuge (BE Final Yr CSE)'.

Fig.15: Leaves Format of Leave Management System for ACE.

The screenshot shows a 'Confirm Leave Email' form. It has fields for: From (achal@gmail.com), To (Email address), Subject, and Message. There is a 'SEND EMAIL' button at the bottom.

Fig.18: Apply Leave Email Page



Fig.19: Developers Information Page of Leave Management System for ACE

## V.CONCLUSION

This system provides facility to conduct leave management system by online. The development of leave management system carried out to reduce stress of paper based method in managing attendance. The project will implement using PHP programming language and MySQL server database and it starts with a login interface which contains faculties, principal and HOD login.

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