

Android Application of Leaves Management and Notices for Faculty

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Abstract— Now a days with the emerging technology android is developing with the fast pace in society. From teens to adults everyone is aware of smart phones. In each sector the android applications prove helpful in various ways. Android application makes the day to day life of a person very easy. Thus, we are introducing a project in which we are concentrating on the problems faced by the faculty during their management of leaves and notices. This will prove helpful for faculty members to take leave easily and urgently. This app can be operated by technical/non-technical users. In this the particular faculty applies for the leave or fills the leave form on his/her android app and is forwarded to Head of Department (HOD). Thus the leave is sanctioned when the HOD approves it and then acknowledgement is sent to the particular faculty. Another problem faced by the teachers is when they have a particular notice to be sent at the faculty level e.g. whenever the meeting is to be held, or whenever the notices have to be sanctioned. Our application provides notices module also in which the teacher can display the notices or pass the notices at faculty level. Thus our application will provide a easy and effortless way of communication between teachers.

Key words: Android Application of Leaves Management, Leaves Management for Faculty

I. INTRODUCTION

We are introducing an android application for leave management and notices for faculty. Many faculties face problems while managing their leaves and movement period in the colleges or schools. They are not able to keep the track of their leaves and it is a hectic task for each time for enquiry. Thus, our application is the perfect solution for this problem. Now a days teaching as well as non-teaching faculties have their own android smartphones. Thus there will be no problem in accessing this app. There are various leaves for teachers:

- Medical leaves
- Casual leaves
- On Duty leaves
- Leave without pay(LWP)
- Movement period

Whenever teacher logins through his android app he/she can choose the option he wants viz. leaves and notices. Through this app the teacher can access or request for leave from wherever he is. It eliminates the time and effort wasted in approaching each and every authority for the sign or approval. It also reduces the amount of paper resources needed in maintaining the records of each and every employee in the college.

The whole data will be stored in the database maintaining the records of remaining leaves, sanctioned leaves and notices to be passed. The user has to just fill the form for their leaves by entering their reason and period. It

will be further processed to the HOD where he/she can find the request of the respective faculty and decide to approve or not. Here faculty as well as HOD can do this task from wherever they are any time. Similar with the notices whenever there is meeting to be held or a faculty want to arrange a workshop for students he/she can make use of this app for acquiring the approval.

II. PROPOSED WORK

We are developing an android app on leave management and notices while concerning to reduce the paper work. Our application will manage faculty leave days and communicate instantly to higher authority about leave. The application includes apply for leave, leave history, view request received, view notices, create notices and approve permissions for notices and leaves.

In this we are proposing a three tier architecture consisting of front end technology as android, middleware as php or asp.net technology and at the end sql database.

The principal, HOD and faculty can login and manage their leave applications. They can see their leave status, notices and notifications for approvals of leaves and notices.

The Principal though his account can grant permission to HOD leave and can create and send notices.

The HOD can grant permission to faculty and non-teaching faculty leave and notices. HOD can also create notices and ask for permission to principal.

The faculty can ask for leave permission and notice permission to HOD and can create and send notices to other staff members.

In our app we are going to provide different types of leaves and notices. The user can choose type and proceed further.

A. Features

- Option to view available leaves and record of leaves.
- Option to apply for leaves.
- Protected view of leave requests for different department heads and faculty.
- Option to give permission to leave.
- Alerts to view the new leave requests or notices received.
- Option to create notices and take permission for notices.

III. ARCHITECTURE

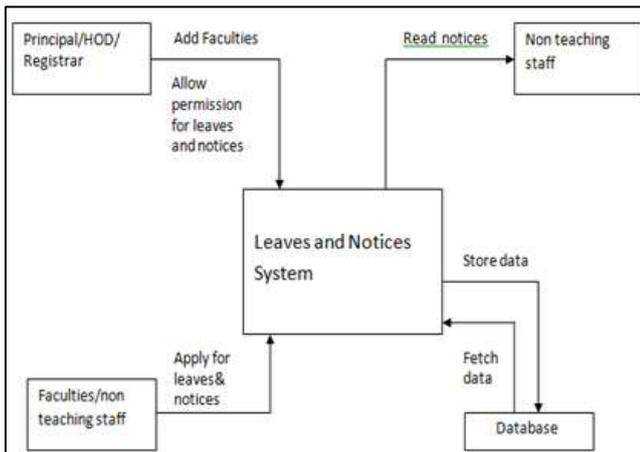


Fig. 1: Architecture

A. Modules

1) Leave Management

Leaves management module will manage leaves of the faculty. It will provide option to view and apply for leaves. This module will also contain option to grant permission for leaves. This module will also provide other option such as view remaining leaves etc.

2) Notices

Notice module will contain all information of notices. This module will provide different option such as create notices and take permission for notices.

IV. LITERATURE REVIEW

A. Leave Manager

Leave Manager is a simple application which manages your leave days and conveys that instantly to your office about your leave.

This application includes facilities for apply for leave, leave history, list holidays and view request received.

The application is helpful for employees of the organization to process the leave but there is no facility for notices and keeping the track of notices.

B. Apps-For-Ops Time Off

Apps-For-Ops is not single app, it is a combination of different apps. Users can choose any one app or user can run them all. There are mainly two parts of the Apps-For-Ops platform: Core Apps and Add-On Apps.

Time Off application allows employees to submit, track and get approval for their Time Off requests in the organization. It allows user for leave categorization, balance maintenance, different levels of approval.

Core Apps are needed to run any of the Add-on Apps. The different Add-on Apps are Expense Claim, Time Off and Travel Request.

C. CakeHR

CakeHR is an application which helps to apply for leave. This app is useful especially for managing working human workforce. The drawback of this app is, it does not include notices.

Drawback of these all applications is that they include some functionality of leaves, not all that we are going to provide in our application. Our application combines both

the modules of leaves and notices management and it includes taking intermediate permissions.

V. FUTURE WORK

Future works include developing application supporting all platforms such as Windows and IOS.

ACKNOWLEDGMENT

The Project 'Android Application of Leave management and Notices for faculty' is supported by Department of Computer Science and Engineering of Dr. J. J. Magdum College of Engineering.

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