

An Android Application for Leave Sanctionation

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Abstract

This application is proposed to develop a mobile application for online leave Sanctionation system that is of importance to either an organization or an institute. This system can be used to make work automatic and to make workflow smooth of leave applications and their approvals. The regular crediting of leave is also automated. There are features like automatic credit and debit of leave, load adjustment for faculty etc. Leave Sanctionation system will reduce paper work and maintains record in more efficient way.

In this Leave Sanctionation System the task for admin is it collecting requests from all employees checking their record and credit/ debit leave and send the request to superadmin. In this application HOD will have giving the permission for taking the leave. He/she can also view the leave of each and every employee.

This application is most important for colleges, by using this application they can reduce paper work. The purpose of this system is, work should be done automatically. This application is online application; it is connected through data base which will maintain the records of all employees, their leaves (CO, CL, Campus, TR), working hours and all. It is very easy to use. The main aim of this application is used to reduce time.

Keywords: HOD, employee, CO, CL, campus,

1. Introduction:

In this leave Sanctionation system it contains activity of every day. This application can use throughout the college. Staff can submit the leave with their respective HOD. And he/she can approve that leave. It assigning Id, password to every staff while they will login to the form, because of that we can reduce the paper work. There is no chances of losing data, data will be safe and secure in this system. This application can also save our time. We can adjust the leave i.e. called load adjustment in this application.

This application can be developed using android application development, because today every person has smartphone and we can access this application very easily. Now a day lot of people use android OS smartphone and it is user friendly and programmer friendly smartphone.

2. Literature Review

[1] The Employee Leave Database Management system is an Intranet based application that can be accessed throughout the organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is also automated. There are features like email notifications, termination of leave, automatic approval of

leave, report generators etc. in this Tool. The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MS-SQL Server and all the user interfaces has been designed using the ASP.Net technologies.

[2] Management of leave and payroll are critical operations for each institution as it has effect on payment of staff members of any institution and also to complete it accurately and on time. The Current Leave and Payroll Manager both are paper based systems. Though the attendance is Biometric but still it is not that much efficient in terms of matters related to leave management. Manual payment calculation of staff members is too complex and it even takes lot of time and also requires lot of efforts. So if these processes are automated, it would be of great benefit as it would require less time to calculate the salary of the employees. So, a web application that has a payroll management system is considered as one of the way here.

[3] The Mobile HRM (Human Resource Management) project is aimed at developing an online leave management system which is important to an organization. It is a new concept that is been developed for our management to maintain leave record. The Mobile HRM is an Intranet based application that can be accessed throughout the organization or a specified Department. This system can be used to automate the workflow of leave request and their approvals. There are features like approval of leave, cancellation of leave, report generators in this system. The registered people are to be an employee or a staff of the particular organization. At anytime and anywhere employee or staff can apply their leave using this application. There is no necessity for manual filling of leave form and wait to get higher officials signature.

3. Existing System

The current leave sanction system it involves lots of paper work, all database are maintained manually which increases the workload of administrative section. A new application is to be developed to ease the overall procedure and to reduce the amount of paperwork involved. In existing system every college follows manual procedure in which faculty should enter from date and to date in a application and as per that admin should do entry manually. At the end of each month Head of department will calculate leaves of every faculty member which is a time taking process and there are chance of making mistakes in manual process

4. Architecture:

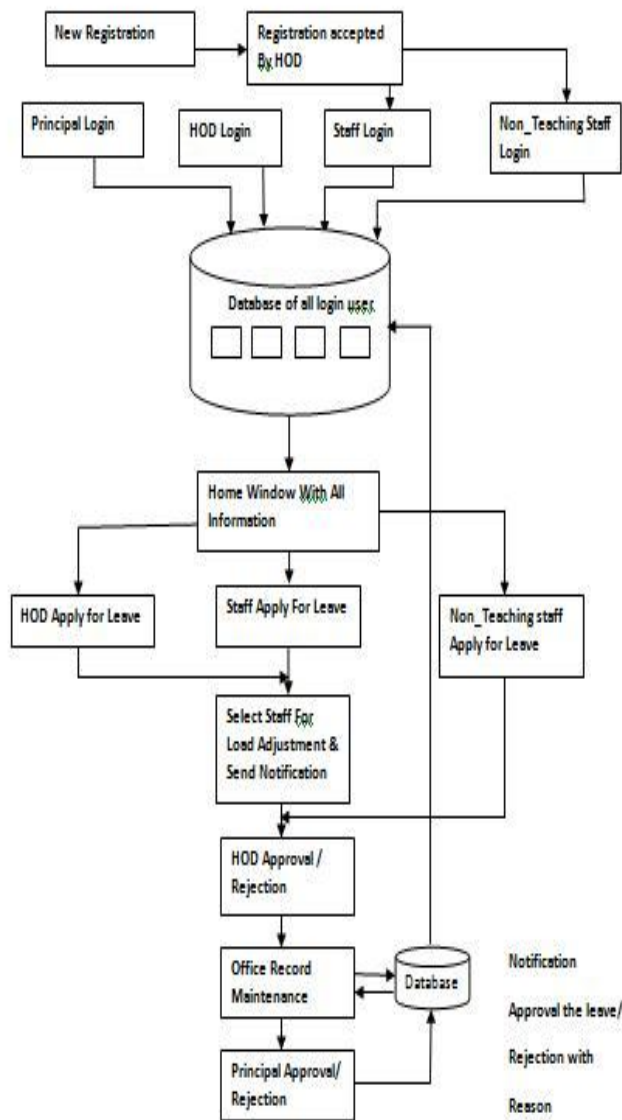


Fig 1: Architecture of Leave Sanctionation

This is the system architecture of the leave sanctionation .In this architecture shows the functionalities of the leave sanctionation. The main modules of this system are principal, HOD, staff and nonteaching staff. If the new registration is found then this will be accepted by the respective Head of Department. After the acceptance of HOD, registration will send to the respective login. After the login the particular dash board will display to the user. In the dash board all the information about user is display like no.of leaves remaining how many no.of leaves have already taken all the details are presented in this dash board. The user can first request for a leave then this leave will be sanctioned from a HOD.

The database is maintained for all login of an institute. The database is more secure which is maintaining all records. As shown in above architecture while applying request for

leave HOD, teaching faculty can select staff from list for adjusting load, as before taking leave it is necessary to adjust own load, so teaching faculty and HOD can select faculty for and adjust load by sending message, respective faculty can check the message and send a approval notification to requested faculty either yes or no. After load adjustment faculty can apply for leave and HOD may approve.

After HOD approval from HOD The request may send to office staff. There office staff can check earlier record and update record in database for respective faculties, i.e. credit and debit of leave, and which type of leave (CO,CL,Campus,TR).

Principal approval module is last processing of request of leave applying. After office staff process the request may send to principal approval for final approval ,where principal can check load adjustment of staff and approve leave.

The final approval from principal will be update in database and a notification will send to requested faculty either leave approved or not.

5. Dataflow Diagram:

Data flow diagram means which takes input, process that input and represent output. Data flow diagram is view of system i.e. how data flow in system.

5.1 Zero Level DFD

As shown in DFD of leave sanctionation, staff can be request to apply for a leave. HOD can check request and accept or reject request of staff. After HOD approval the request send to admin for leave sanction.

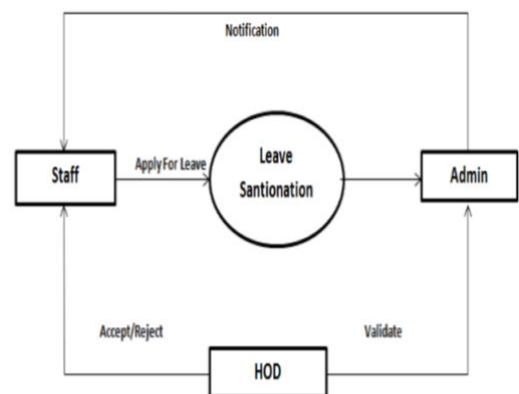


Fig 2: Zero Level DFD

5.2 First Level DFD

As shown in first level DFD of leave sanctionation, the staff can apply for a leave. They will register or login for a staff and then he/she can apply leave, faculty can check whether which leave type he/she will take and then faculty will apply the leave and send the leave request for particular HOD for approval.

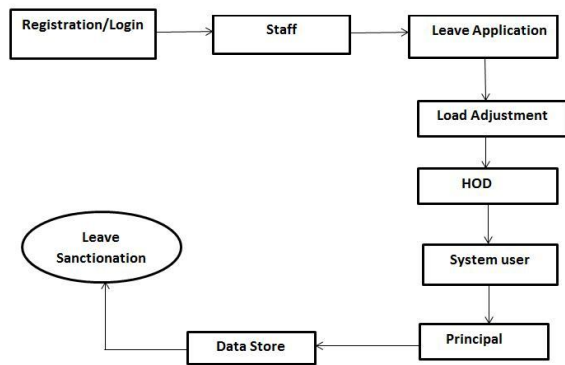
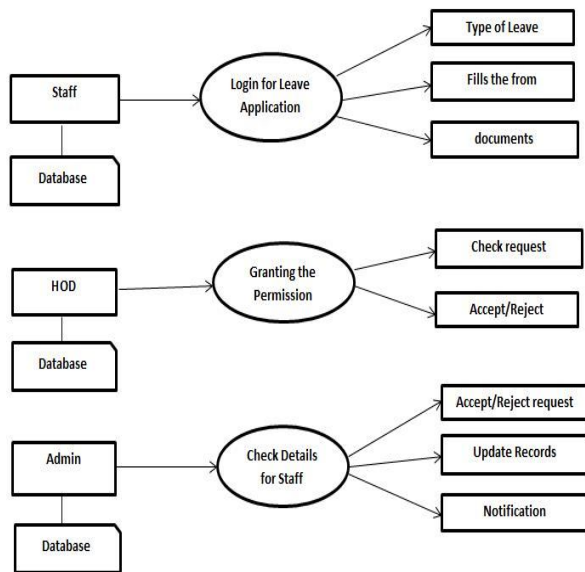


Fig 3: First Level DFD

5.3 Second Level DFD

As shown in second level of leave sanctionation, in this staff will login for leave application and can check the leave, and which type of leave they want they will fill the application form and update the document. After applying the leave that will send to the particular department HOD.

In admin module they will able to check the details of all the staff and he also accept the leave and send leave for further processing.



Conclusion

Leave Sanctionation is very useful for college to maintain in the leave record of the employees. This system maintains the leave details of the staff. This application is to decrease the paper work and easier record maintenance by having the database. This approach basically deals with the record of leaves taken by faculty members and the higher authorities may accept or reject the leave applications requested by the staff.

Thus this system maintains the excess amount of job done by college to maintain the leaves.

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