

Database Management System

Leave tracking System

Group-5

ABSTRACT

Objective:

A leave tracking system which tracks the leave records of faculty and students. This project would make the leave record management easier and students & faculties can make surety of their absence.

Proposed Solution:

An efficient database management system that keeps the record of faculty and students leave record. The user can either be a student or a faculty. For a faculty, the leave type must be specified which should abide by the rules while applying for a leave. If this encounters then the record must get updated and the attendance gets marked.

Incase of students, the leave can either be duty leave or personal leave. The duty leave should be applied a week before with proper details and certification which should be sanctioned by the advisor and the higher authorities.

Technologies Used:

- PostgreSQL for storing and manipulating the records.

Scope:

The project can be extended by implementing the front-end of the leave record management system which can be accessed by their credentials to a web portal, where they can apply, manage and see the status of their leave of absence. Front-end and the database can be linked using back-end (preferably Django).

NORMALIZATION

0NF

Login, Password, id, name, address, phno,
type, leaveid, Reason, ltid, ltname, typecount,
aid, aname, aaddress, aphno, apprstatus,
Exid, Ecount, Estatus,count

lo gi n	pa ss w or d	iid	nn a m e	ad dr es s	ph no	ty pe	le av ei d	re as on	lti d	ltn a m e	co un t	ty pe co un t	ai d	an m ae	aa dd	ap hn o	ap pr sta a	ex id	ec ou nt	es tat us

1NF

Login,leave_id —> Password, id, name, address, phno,
type, Reason, ltid, ltname, typecount, count,
aid, aname, aaddress, aphno, apprstatus, Exid, Ecount

Login,leave_id

pas sw ord	iid	nn a m e	add res s	phn o	typ e	rea son	ltid	ltn am e	cou nt	typ eco unt	aid	an ma e	aad dres s	aph no	app rsta tus	exi d	eco unt

2NF

Login —> Password, id, name, address, phno,

type

leave_id——> Reason, ltid, ltname, typecount,count, Exid, Ecount
aid, aname, aaddress, aphno, apprstatus

Login

<u>login</u>	password	id	name	address	phno	type

Leaveid

<u>leaveid</u>	reason	ltid	ltname	count	typecount	aid	aname	aaddress	aphno	apprstatus	exid	ecount

3NF

Login ——> Password, id, name, address, phno, type

Leavetype——>ltid, ltname,typecount

leaveid——> Reason, count, apprstatus, fromdate, todate, exid, ai,
exid----->Ecount

aid——> a_name, a_address, aphno,

Login,leave_id——>

login,ltid,leaveid——>

Leaveid,exid——>

<u>login</u>	password	id	name	address	phno	type

<u>ltid</u>	ltname	typecount

<u>leaveid</u>	Reason	aid	count	apprstatus	fromdate	todate	exid	aid

<u>exid</u>	ecount

aid	anmae	aaddress	aphno

<u>login</u>	leaveid

<u>login</u>	<u>ltid</u>	<u>leaveid</u>

<u>leaveid</u>	<u>exid</u>