

Leave Management System

Platform

Active directory for login authentication
Xampp for php and mysql (phpmyadmin as UI)
Or
Easyphp and mysql

PHP

FOLDERS:

css - css files
home - all the scripts for the website
img - images
logs - the logging files
generatepdf - the script to export to html to pdf
fullcalendar - the source code for fullcalendar plugin
mpdf – the source code for mPDF plugin

Export pdf report

Mpdf is used to export pdf report from html format.

```
include("../mpdf/mpdf.php");

ob_start(); // start output buffering
include "PATH FROM WHICH HTML HAS TO BE CONVERTED TO PDF";
$content = ob_get_clean(); // get content of the buffer and clean the buffer
$mpdf = new mPDF();
$mpdf->SetDisplayMode('fullpage');
$mpdf->WriteHTML($content);

$mpdf->Output(); // output as inline content
```

Documentation : <https://mpdf.github.io/>

Logging system

Call to log is placed in notification_email.php.
Log file records action of all users with their id's:

1. Login time
2. Request time
3. Approval made along with id of employee involve
4. Dis/unapproved made along with id of employee involve

Mailing System

Email is sent when request, approval and dis/unapproved are made.

- Email to Supervisor when user apply for leave
- Email to Super_supervisor when Supervisor apply for leave

- Email to user/supervisor when their leaves are approved or dis/unapproved

Calendar

Fullcalendar, a JQuery plugin, is used to display pending(yellow) and approve(green) leave.

```
<link rel='stylesheet' href='../fullcalendar/fullcalendar.css' />
<script src='../fullcalendar/lib/jquery.min.js'></script>
<script src='../fullcalendar/lib/moment.min.js'></script>
<script src='../fullcalendar/fullcalendar.js'></script>
```

Documentation: <http://fullcalendar.io/>

Sending email

The script below sends email to \$to.

```
$to = "firstname.l@birger.technology";
$subject = "My subject";
$txt = "This is a test email being sent!";
$headers = "From: webmaster@birger.technology". "\r\n";

mail($to,$subject,$txt,$headers);
```

Login check

Each script that demand that the user is logged in will contain this code. This checks that the user has been login and user the user's id as authentication

```
if (!isset($_SESSION['id']) )
{
    session_unset();
    session_destroy();
    header ("Location: please_login.php");
    exit ();
}
```

global_variable.php

This file contains all the static variables that are commonly use in other script.

global_function.php

This file contains functions that are used in multiple scripts.

Functions are as follows:

- *numberofdayswithoutweekends*
Calculate the number of days without weekends and holidays input by user.
- *validateDate*
Check whether input has a valid date format.

- *getlastnamefromid*
Return the lastname of input user.
- *connecttodatabase*
Return connection to database.

MySQL

Table list

Department_tbl

Department ids with corresponding department names.

Employee_department_tbl

Employee ids with corresponding department id.

Employee_leave_tbl

Employee id, leave id, start date, end date, status (Approved/pending) and approved by.

Employee_tbl

Names, employee id, email and title of all employees in the company.

Holidays_tbl

Dates of public holiday or special day with description (counter will not increment if leaves requested contain those dates).

Leaves_tbl

Manages the different types of leaves.

Leave id, leave type and amount allocated per year.

Leave_id	Leave_type
LL	Local_leave
ML	Maternity_leave
OC	Office_closed
OL	Overseas_leave
PL	Paternity_leave
BW	Bad_weather
WE	Wedding_event
SL	Sick_leave
HL	Half_local
CS	Customer_site
TL	Training_lesson

Roles_tbl

Employee ids with corresponding role (Admin, User, Supervisor, Super_supervisor)

- *Admin* -
Add public holiday
Add new User, Supervisor and Super supervisor
Export individual report or group report (filter by department) in pdf
- *Super_supervisor* -
Have access to all employees' record including supervisor and user. Can approve or disapprove leaves of any employees.
- *Supervisor* -
Oversee a department. Can be more than one per department.
See all users in department. Approve or disapprove leaves.
Receive email when User in same department apply for leave
- *User* -
Can only apply, select leaves (start date and end date)
Receive email when leave is approved/disapproved.