

Project Title: Web Based Leave Management System for Centre for IT Support and
Development Services at General Sir John Kotelawala Defence University

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Link: <https://github.com/Dulini18550824/LeaveManagementSystem.git>

User Accounts

Admin → User Name: admin@mail.com

Password: asdf1234

HOD → User Name: hod@mail.com

Password: asdf1234

Registrar → User Name: registar@mail.com

Password: asdf1234

Server Hardware Requirements

- Intel Processor : 3.0 GHz
- Hard Disk Drive : 100 GB Free Space
- RAM : 1 GB

Client Hardware Requirements

- Personal Computer with Internet Connection
- At least 512 Kbps speed internet
- Processor power more than 2.0 GHz

Software Requirements

- Windows 10
- Web Server : Apache 2.4
- Scripting Language : PHP 7.4
- Database Server : MySQL 8.0
- HTML5
- CSS3
- JavaScript
- Laravel

Installation Process

- i. Install XAMPP v3.2.4
- ii. Install VS CODE version 1.56 (1.56.2)
- iii. Install COMPOSER 2.0 (2.0.14) – Dependency Manager for PHP
After Installation → Open cmd → Type **composer** → Enter
- iv. Install nodeJS v14.17.0 – JavaScript runtime built on Chrome's 8 JavaScript engine

Creating the Environmental File (.env) for the VSCODE project

- i. Open **.env** file
- ii. Goto the terminal – Install Composer
Type **composer install** and enter
- iii. Generate the APP_KEY
Goto the terminal → Type **php artisan key:generate** and enter
Copy and paste generated APP_KEY into the .env file

Creating the Database

- i. Goto the XAMPP Control Pannel
- ii. Select MySQL admin button
- iii. Then open phpMyAdmin
- iv. Create the new database

Return to the VS CODE project

- i. Set the created database name into the .env file
DB_DATABASE = Type database name here
- ii. Create and migrate the database tables
Goto the terminal → Type **php artisan migrate** and enter

Changing the Virtual Host Configuration

- i. Open notepad
- ii. Then open **httpd-vhosts.conf** file in the notepad
(C:) → xampp → Apache → conf → extra → httpd-vhosts.conf

iii. Create the following code segment

```
<VirtualHost *:80>
    ##ServerAdmin webmaster@dummy-host.example.com
    DocumentRoot "C:/xampp/htdocs/project_name/public"
    ServerName project_name.test
    ##ServerAlias www.dummy-host.example.com
    ##ErrorLog "logs/dummy-host.example.com-error.log"
    ##CustomLog "logs/dummy-host.example.com-access.log" common
</VirtualHost>
```

Changing the Windows Host Configuration

i. Right click on a notepad and run as administrator

ii. Open **Hosts** file

(C:) → Windows → System32 → drivers → etc → Hosts

iii. End of the notepad, insert the following line and save it

127.0.0.1 project_name.test

Creating a link for Upload a Documents

i. Goto the terminal in VS CODE project

ii. Type the following code

php artisan storage:link

iii. Then the folder will create automatically

Folder Name: **storage**

Folder Path: (C:) → xampp → htdocs → leave_manage → storage → app
→ public

Configuring the Mail Server

i. Create an email account at MailTrap.io

ii. Goto the Inboxes → My Inbox → SMTP Settings → Integrations → Laravel 7+

iii. Copy SMTP settings of MAIL_USERNAME, MAIL_PASSWORD and

MAIL_ENCRPTION

iv. Paste and change it into the root directory of the .env file of VS CODE project