KL PULSE: EMPLOYEE AND LEAVE MANAGEMENT SYSTEM

PROJECT GUIDE:

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INTRODUCTION

- Knowledge Lens is a US and India based product and services technology company.

- They builds innovative solutions on niche technology areas such as Big Data Analytics, Data Science, Artificial Intelligence, IoT, Blockchain, AR/VR and Cloud.

- KL Pulse is the office and leave management system of Knowledge Lens.

PROPOSED SYSTEM

- KL Pulse uses Google SSO Login filtered by user roles to access in to the system.

- KL Pulse allows employees to share their work status for each day with their leads.

- Employees can set weekly goals and work based on that to complete their works.

- Employees can view their goals and the statuses of their works they have added in the system.

- KL Pulse also provides Leave Management System for making it easier for both employees and HRs to manage leaves.

PROPOSED SYSTEM

- Employees can view their available leave information in the dashboard.

- They can apply for leave from the KL Pulse System and see the status of their application.

- HRs have the privilage to view the leave requests of employees and then aapprove or reject them.

- Admins and leads can review the work status of the employees with the help of the system.

TECHNOLOGIES USED

- FRONT-END:

    The UI of KL Pulse is designed using React JS which is a free and open-source front-end JavaScript library for building user interfaces based on UI components.
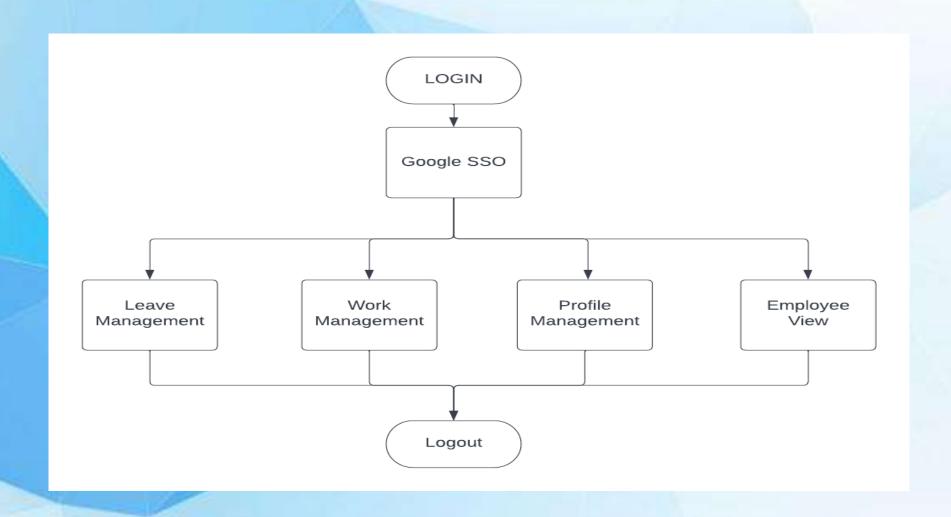
- BACK-END:

    The Back-end of KL Pulse is designed using FastAPI which is a modern, fast (high-performance), web framework for building APIs with Python 3.6+ based on standard Python type hints.
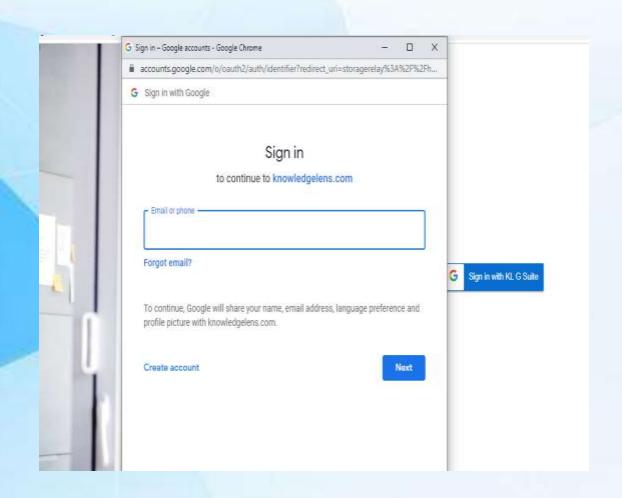
MODULES

1. Login Module
2. Status Module
3. Leave Management Module
4. Profile Module
5. Employee Data Module
6. Apps Module
7. Logout Module
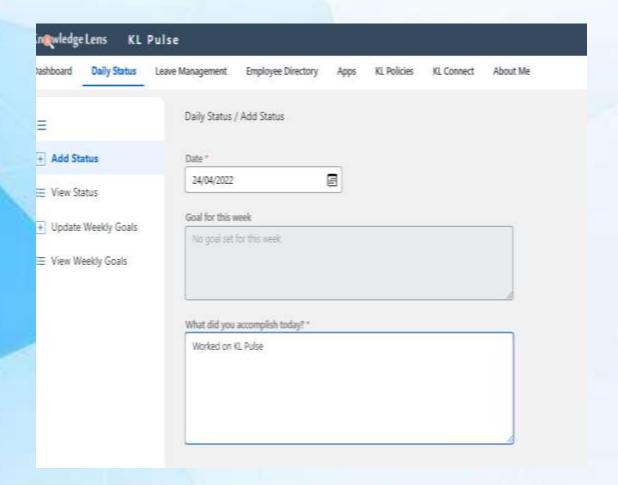
Flow Diagram Of KL Pulse

Login Module

- The login module uses Google SSO (Single Sign-On) login filtered based on user roles.

- The different roles in the system are User, Admin, HR and Managers.

- Admin can control the working of the application.

- HR can view and take necessary actions on the employee requests.

- Managers can view and analyze the employee performance and generate employee reports.
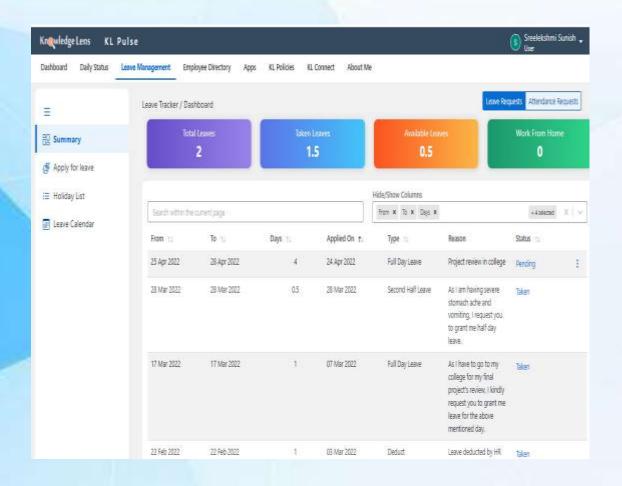
- The users are the employees.

Status Module

- The Status Module contains four parts.

- User can add, update, view or delete weekly goals and under it user can add, update, view or delete status.

- The managers can view and evaluate the works and status of the employees by logging in into their portal.
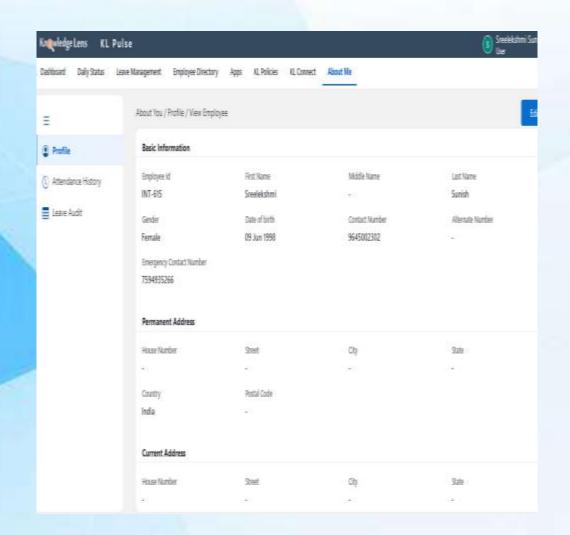
Leave Management Module

- User can view available leaves, apply for leave, view status of the leave, cancel leave, apply for work from home etc

- HR can approve or reject leave requests.

- User and HR can view all employees leaves and work from home in calendar format.

Profile Module

- All users can manage their details.

- View attendance history including punch-in time and punch-out time.
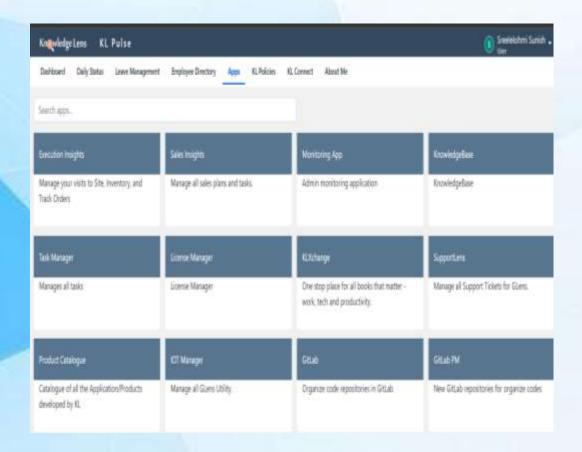
- View leave history

Employee Data Module

- Contains list of all employees and basic details like designation, date of joining, work location, contact etc.
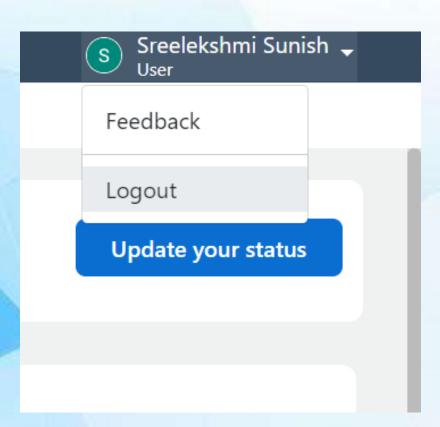
Apps Module

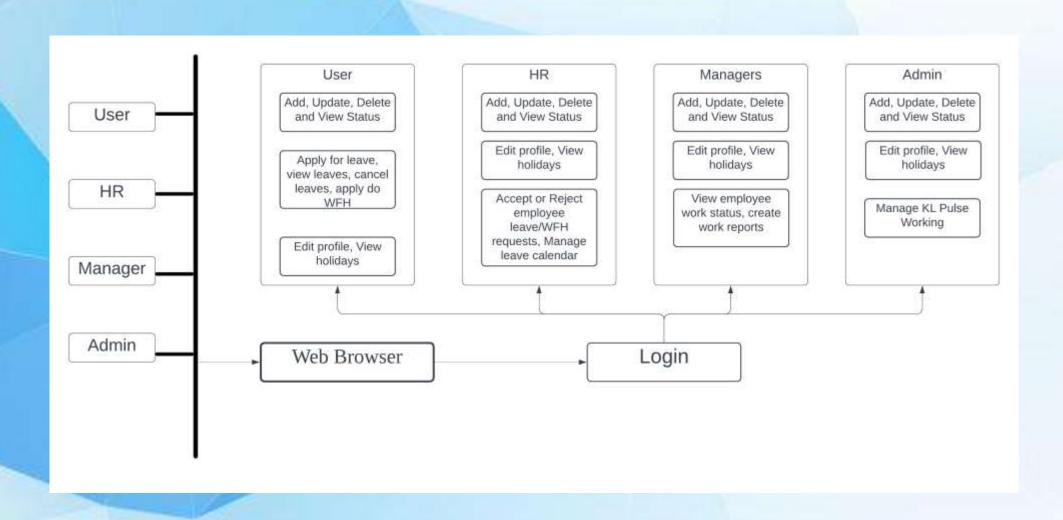- Different other applications are integrated with the system through links.

Logout Module

- Facilitates the user to logout from the system.

System Design of KL Pulse

CONCLUSION

- KL Pulse Employee Management System helps the managers to evaluate and monitor their performance.

- It makes the process of employee valuation and report generation for the team leads and managers much easier.

- KL Pulse Leave Management System automates the leave request process, making it hassle-free for both the management and the employees.

- KL Pulse helps in maintaining the records of the employees which will help human resource team to manage work status, leave approval, leave cancellation and report generation.

FUTURE ENHANCEMENTS

- KL PULSE provides the provision to integrate multiple supporting applications to the system.

- The IT desk supporting system will be integrated with the KL Pulse which will allow the employees to manage their devices.

- Many other applications are being integrated with KL Pulse like Recruitment Management System, Sale Insights, Execution insights etc.

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THANK YOU