

Employee Leave Management System (ELMS)

Overview

The Employee Leave Management System (ELMS) is a comprehensive web application designed to streamline and automate the process of managing employee leave requests. It provides features for employees to request leave, managers to approve/reject requests, and administrators to manage the system and generate reports.

Features

- **User Authentication:** Secure login for employees, managers, and administrators
- **Leave Request Management:** Submit, view, and track leave requests
- **Approval Workflow:** Managers can approve/reject pending leave requests
- **Leave Balance Tracking:** Automatic tracking of available leave days
- **Reporting:** Detailed reports on leave trends and department statistics
- **Admin Dashboard:** Comprehensive system management tools
- **Responsive Design:** Works on desktop and mobile devices

Technology Stack

- **Frontend:** HTML5, CSS3, JavaScript, Bootstrap 5
- **Backend:** Python, Flask
- **Database:** SQLite (with SQLAlchemy ORM)
- **Authentication:** Flask-Login
- **Charts:** Chart.js

Installation

1. Clone the repository:

```
git clone https://github.com/Nithin-kumar8/flipkart-intern.git
cd elms
```

2. Create and activate a virtual environment:

```
python -m venv venv
source venv/bin/activate # On Windows use `venv\Scripts\activate`
```

3. Install dependencies:

```
pip install -r requirements.txt
```

4. Run the application:

```
python app.py
```

5. Access the application at <http://127.0.0.1:5000>

Usage

Login Credentials

- **Admin:** username admin , password admin123
- **Employee:** username employee , password emp123
- **Manager:** username manager , password man123

Employee Features

- View leave balances
- Submit new leave requests

- Track request status
- View request history

Manager Features

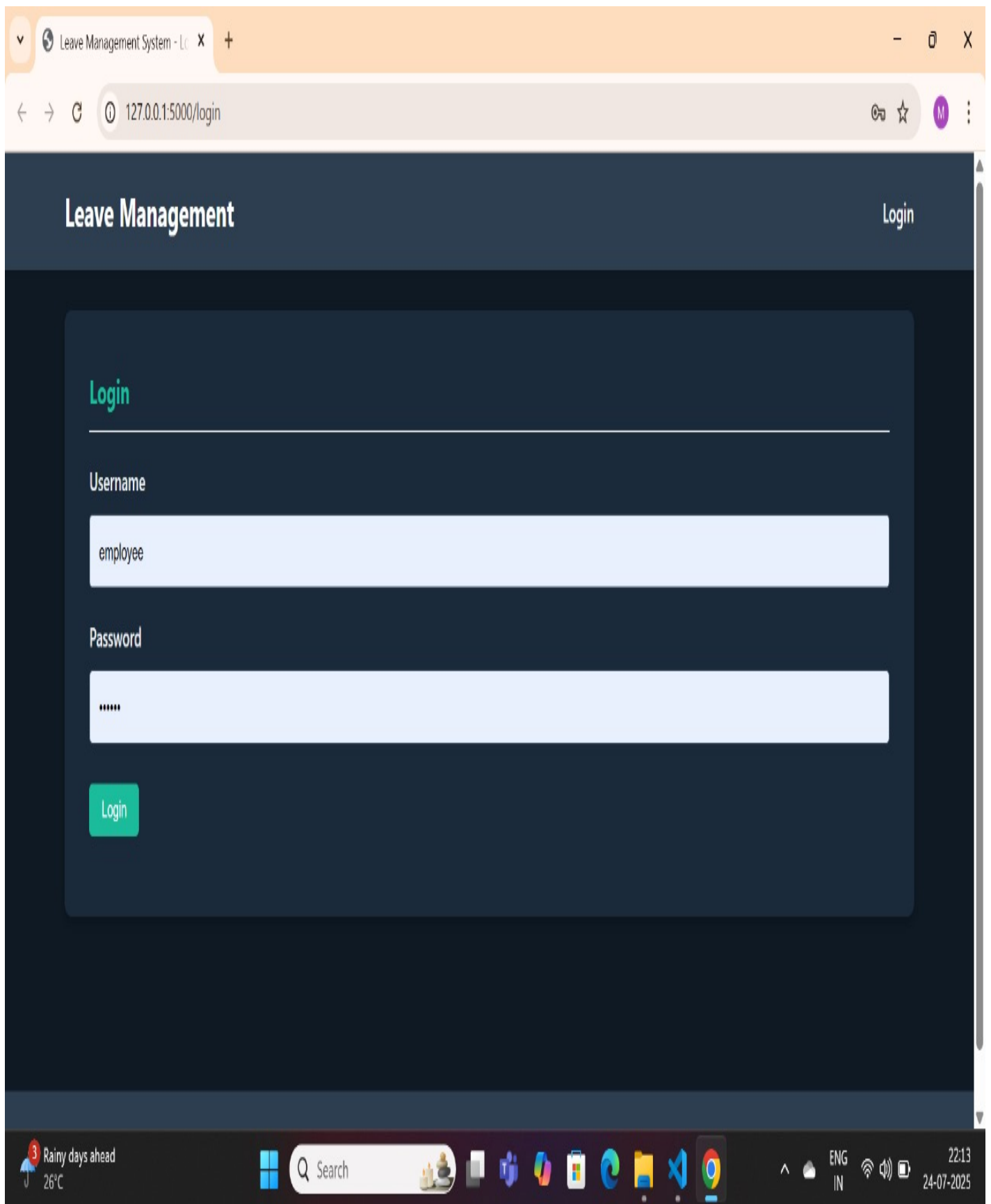
- Approve/reject leave requests
- View team leave calendar
- Monitor pending approvals

Admin Features

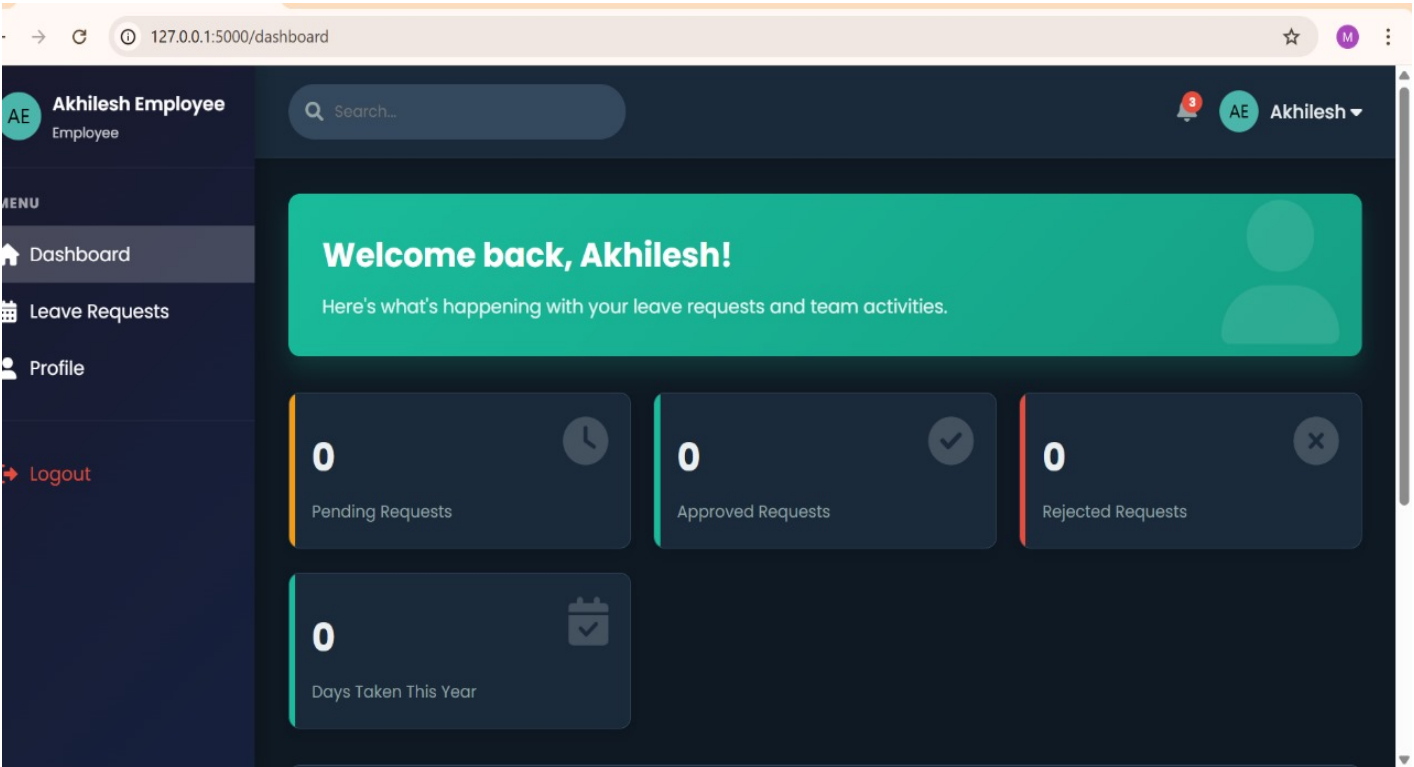
- Manage all users
 - Configure leave types
 - Generate system reports
 - Monitor system activity
-

Screenshots

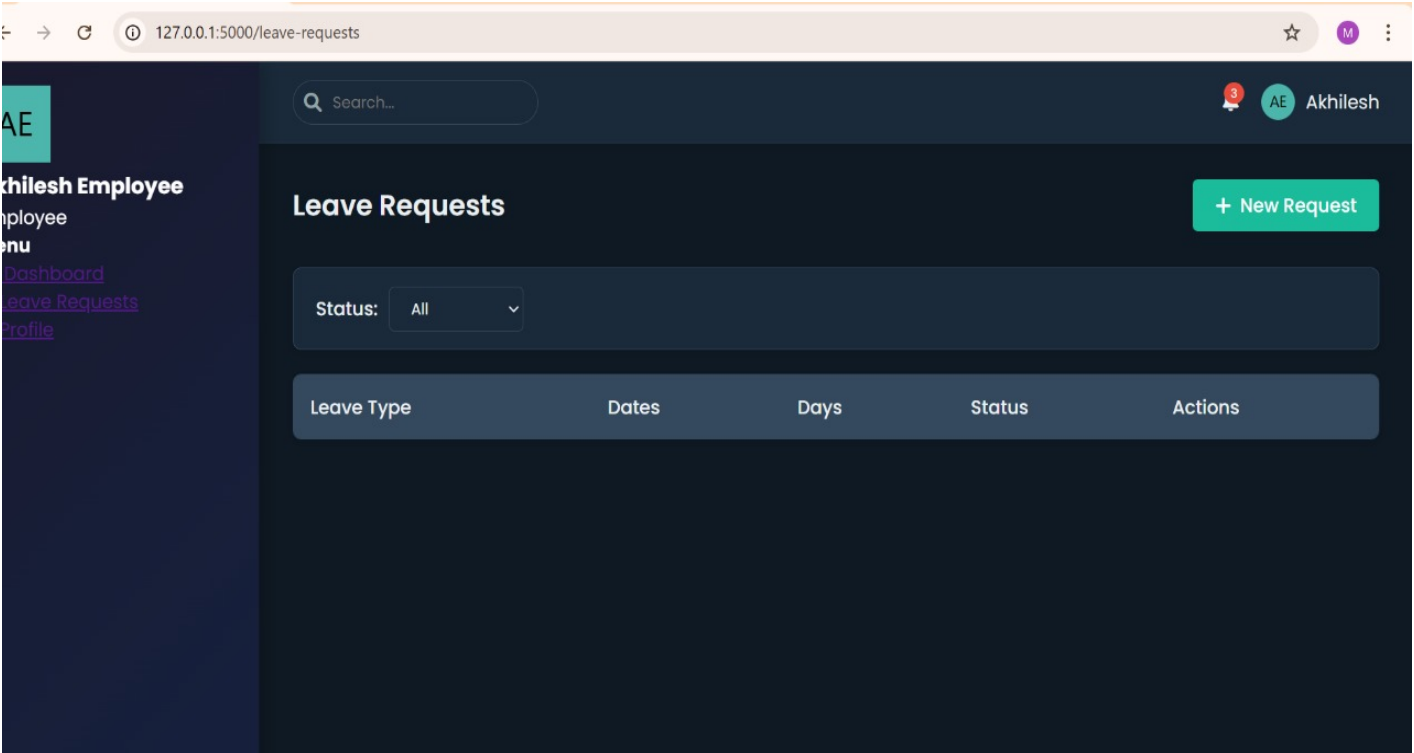
Login page



Employee Dashboard



Leave Request Form



Manager Approval Dashboard

NM

Nithin Manager

Manager

Menu

[Dashboard](#)

[Leave Requests](#)

[Profile](#)

127.0.0.1:5000/leave-requests/1

Search...

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NM

Nithin

Employee

Akhilesh Employee

Department

Operations

Start Date

Jul 25, 2025

End Date

Jul 27, 2025

Days Requested

1

Submitted On

Jul 24, 2025 04:56 PM

Reason for Leave

fever

✓ Approve

✗ Reject

Reports Dashboard

NM

Nithin Manager

Manager

Menu

[Dashboard](#)

[Leave Requests](#)

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[Profile](#)

127.0.0.1:5000/reports

Search...

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NM

Nithin

Reports

Generate Custom Report

Select filters and options to generate a custom leave report

Report Type

Leave Summary

Format

CSV

Start Date

10-06-2025

End Date

30-07-2025

Generate Report

Database Schema

The system uses the following database tables:

- User : Stores employee information
- LeaveType : Defines different types of leave
- LeaveRequest : Tracks all leave requests
- LeaveBalance : Maintains leave balances for employees

License

This project is licensed under the MIT License. See the LICENSE file for details.

Contributing

Contributions are welcome! Please fork the repository and submit a pull request with your changes.

Contact

For questions or support, please contact the project maintainer at sangalaashok@example.com