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Leave Management System Administrator Manual

Introduction

This Administrator Manual provides instructions for system administrators to manage the Leave Management System (LMS), a Django-based application for handling employee leave requests and balances.

System Overview

The LMS allows:

- Employees to log in, view leave balances, submit leave requests, and view request statuses.
- Managers to review and approve/reject leave requests.
- Administrators to manage employee accounts, leave balances, and system configurations.

Prerequisites

- Access to the Django Admin Panel (http://127.1.0.1:8080/admin/).
- Superuser credentials for the Django Admin Panel.
- Basic knowledge of Django and database management.

Administrator Responsibilities

- Create and manage employee accounts.
- Initialize and update leave balances.
- Monitor system performance and resolve errors.
- Ensure data integrity and security.

Accessing the Django Admin Panel

- 1. Navigate to the admin URL (http://127.1.0.1:8080/admin/).
- 2. Log in with your superuser credentials (username and password).

Managing Employee Accounts

1. Access the Employee Model:

 In the Django Admin Panel, locate the **Employee** model under the application name (e.g., lms_app).

2. Add a New Employee:

- Click Add Employee.
- o Fill in:
 - Employee ID: Unique integer (primary key).
 - Full Name: Employee's full name (max 100 characters).
 - **Position**: Select Officer, Senior, Principal, or Manager.
 - **Employment Date**: Optional date of employment.
 - **Username**: Set to Employee ID (must be unique).
 - Password: Set a secure password (use "Set Password" form).
- Save the employee.

3. Edit an Employee:

- o Select an employee from the list.
- o Update fields as needed and save.

4. Delete an Employee:

- Select an employee and choose "Delete" from the action dropdown.
- Note: Deleting an employee will cascade to related leave balances and requests.

Managing Leave Balances

1. Access the Leave Balance Model:

o Locate the **LeaveBalance** model in the Django Admin Panel.

2. Add a Leave Balance:

- o Click Add Leave Balance.
- Select the Employee from the dropdown.
- Set Annual Leave Balance (default: 20 days).
- Set Sick Leave Balance (default: 15 days).
- Save the balance.

3. Edit a Leave Balance:

- Select a balance from the list.
- Update fields and save.

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Ensure balances reflect approved leave deductions.

4. Delete a Leave Balance:

o Select a balance and delete it (only if necessary, as it's linked to an employee).

Managing Leave Requests

1. Access the Leave Request Model:

o Locate the **LeaveRequest** model in the Django Admin Panel.

2. View Requests:

 View all leave requests, including employee, leave type, dates, status, and comments.

3. Edit a Request:

- Select a request to update status or comments manually (e.g., for administrative corrections).
- o Ensure balance updates if status changes to Approved.

4. Delete a Request:

o Delete requests if invalid or erroneous (use cautiously).

Monitoring and Troubleshooting

1. Check Login Issues:

- o Verify employee usernames and passwords in the Employee model.
- Reset passwords if employees cannot log in.

2. Leave Balance Errors:

- If an employee sees "Leave balance not found", ensure a LeaveBalance record exists for them.
- Create a new LeaveBalance record if missing.

3. Form Submission Issues:

- o Check form validation in forms.py (e.g., rejection comment requirement).
- o Review server logs for errors (DEBUG=True in development).

4. Database Integrity:

o Ensure no duplicate Employee IDs or usernames.

 Verify foreign key relationships (e.g., LeaveRequest.employee, LeaveBalance.employee).

System Maintenance

• Backups:

- o Regularly back up the database to prevent data loss.
- o Use Django's dumpdata command or database-specific tools.

Updates:

- o Keep Django and dependencies updated (e.g., pip install --upgrade django).
- Test updates in a development environment first.

• Security:

- Use strong passwords for superuser accounts.
- o Enable HTTPS on the production server.
- o Restrict admin panel access to authorized IPs.

Contact

For technical support, contact the development team or refer to Django documentation.