Documentation for Employee Management System Web Application

Project Name: Employee Management System
Project Type: Web Application
Platform: PHP
Used Programming Languages: HTML, HTML5, CSS, CSS3, Bootstrap, JavaScript
Database: MySQL
Software Tools: Notepad++, Sublime Text, Adobe Dreamweaver
Supported Browsers: Internet Explorer, Opera Mini, Google Chrome, Mozilla Firefox
Supported Operating Systems: Windows 7, Windows 8, Windows 10, Linux, Mac

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Project Overview

The Employee Management System is a web application developed in PHP and MySQL designed to manage employee information, track performance, and handle other HR-related functions. This system is ideal for businesses of all sizes to streamline employee management processes.

Features

Employee Management

1. **Employee Records**
   - Add, update, and delete employee information.
   - Manage personal details, job titles, and contact information.
2. **Performance Tracking**
   - Track employee performance and appraisals.
   - Maintain performance records and feedback.
3. **Attendance and Leave Management**
   - Monitor attendance and manage leave requests.
   - Generate reports on attendance and leave statistics.
4. **Salary Management**
   - Calculate and manage employee salaries.
   - Generate salary slips and manage deductions.

Admin Panel

1. **Admin Login**
   - Secure login for administrators to manage the system.

2. **Manage Employees**
    - Admins can view, add, edit, and delete employee records.
3. **Generate Reports**
    - Generate various reports related to performance, attendance, and payroll.
4. **Settings and Configuration**
    - Configure system settings, such as company details and HR policies.

Software Requirements

- **PHP:** 7.0 or higher
- **MySQL:** 5.6 or higher
- **Web Server:** Apache or Nginx

How to Configure (Run) the Project

1. **Download the Project Zip File**
   Download the zip file containing the Employee Management System source code.
2. **Unzip and Place in Root Directory**
   Unzip the file and place it in the root directory of your web server (e.g., `htdocs` in XAMPP).
3. **Create and Import Database**
    - Open phpMyAdmin (http://localhost/phpmyadmin).
    - Create a new database. Example: `employee_management_db`.
    - Import the SQL file into the database.
4. **Configure Base URL**
   Open `config.php` and set the base URL to your project URL. Example: `http://localhost/employee_management/`.
5. **Set Up Database Configuration**
   Update the database configuration in `config/database.php`.
6. **Access the Application**
    - **Client Interface URL:** http://localhost/employee_management/
    - **Admin Panel URL:** http://localhost/employee_management/admin
7. **Login Credentials**
    - **Admin Login:**
        - Username: `admin`
        - Password: `admin123`

UI/UX Wireframes

Homepage

- Overview of employee management functions, including performance and attendance.

Employee Page

- Detailed view of employee records with options to edit or delete.

Performance Page

- Interface for tracking and managing employee performance.

Attendance Page

- Manage attendance records and leave requests.

Salary Page

- Generate and view salary details and slips.

Error Handling Guidelines

1. **Validation Errors**
   - Display clear and concise messages for validation issues.
2. **Database Errors**
   - Show generic error messages and log detailed errors for further investigation.
3. **404 Errors**
   - Provide a user-friendly 404 error page for not found resources.
4. **500 Internal Server Errors**
   - Display a generic error message and log detailed errors for troubleshooting.

Business Logic

1. **Employee Record Management**
   - Securely manage and update employee details.
2. **Performance Tracking**
   - Track and manage employee performance and feedback.
3. **Attendance and Leave**
   - Process and manage attendance and leave requests.
4. **Salary Management**
   - Calculate and manage salaries and deductions.

Session Management

1. **Session Initialization**
    - Use PHP sessions to manage user authentication and access.
2. **Session Protection**
    - Ensure secure access to pages based on user roles.

3. Access Control