

Employee management system

A PROJECT REPORT ON

Employee management system

A PARTIAL FULFILLMENT OF:
BCA SEM-5

SUBMITTED TO:

Geetanjali College of Computer Science and Commerce



AFFILIATED TO:

SAURAstra UNIVERSITY

ACADEMIC YEAR:

2025-2026

UNDER THE GUIDANCE OF:

PROF. Jigisha Ganatra

PREPARED BY:

Davera Hardik

ACKNOWLEDGEMENT

While the report for my project work is ready, I feel it is my duty to offer my sincere thanks to all those who have helped and guided me in this regard.

Action is very necessary to convert our dreams into reality. My dream was to develop the project. To make a successful and useful project, one needs help, understanding, co-ordination from all those who are directly or indirectly involved in this.

Many people have contributed to make this project a reality. I would like to express my gratitude to our **Head of Department "Prof. Brijesh Shah"** for this guidance throughout the project.

While submitting the project report it is my duty to offer my sincere thanks to those who have assisted me in preparing this project report work.

Before I describe in brief about my project, I would like to add a few heartfelt words for those people who had given their time and knowledge to developing this project.

I am thankful to all my college faculties and friends for their kind co-operation.

Your Faith Fully,
Davera Hardik

PREFACE

In the 21st Century of Technology, Computers and related services are the most useful, automatic and highly speed of work. B.C.A is a course in which the practical aspect is as important as the theoretical aspect. In the present world, the importance of education is increasing. Project training in a student's life is like a live experience in the industry. If we have experience then & then we get top of the level.

The most important factor of a B.C.A Course is Project Work. The Project Work is Must for Every Student in a Different Government or Private Organization during the Study Period.

I am developing a project in the 5th Semester of B.C.A, I am a student of Geetanjali Group of Colleges affiliated with Saurashtra University, Rajkot.

I am creating this project dynamic and in this project, we provide insert and delete operation on admin side and select at client side so the user can easily show the site.

I have gone through and studied necessary information in formation, which is collected and presented in this report. I am trying my best in this project. I have taken almost care that the information provided in the project is true and the project is in a smooth-running condition and error free.

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PROJECT PROFILE

- Project Title :- Employee Management System
- Development Software :- Visual Studio 2022
- Front End :- PHP
- Back End :- My SQL
- Academic Year :- 2025-2026
- Developed By :- Davera Hardik
- Submitted To :- Geetanjali Group of College
- Documentation Tool :- Microsoft Word
- Operating System :- Window 11

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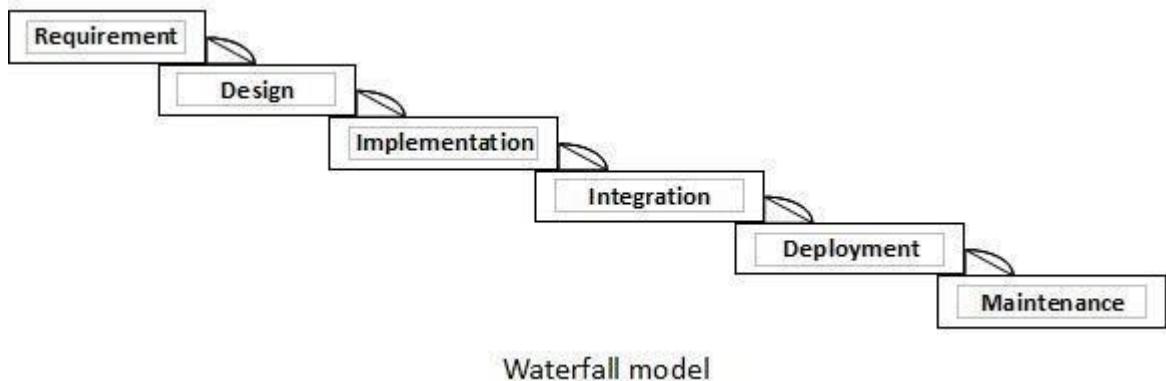
PROCESS MODEL

The Process Model used in our project "College Management System" is a waterfall model.

➤ The Waterfall Model:

The waterfall model is a sequential design process, used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing, Production/Implementation and Maintenance.

The waterfall development model originates in the manufacturing and construction industries: highly structured physical environments in which after-the-fact changes are prohibitively costly, if not impossible. Since no formal software development methodologies existed at the time, this hardware-oriented model was simply adapted for software development



➤ Reason the waterfall model in the software development cycle:

- Since we have well known, clean and fixed requirements therefore it best suits our software development.
- Our product definitions are stable.
- Technology is clearly understood.
- The project is short.

➤ Advantages of the waterfall model:

- This model is simple and easy to understand and use. In this model phases are processed and completed one at a time and phases do not overlap.
- Waterfall model works well for smaller projects where sequence is very well understood

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PROJECT INFORMATION

In the daily Employee Management System, we can use PHP and MYSQL server Database. This is the project which can be used for Manage employee's role vice and handle their issues.

➤ **Superadmin Module:** -

1. Register Employee:

In this section superadmin can register new employees and admins (Add)

2. Employee:

In this section superadmin can manage details of employees and admins (delete, update)

3. Contact Us:

In this section superadmin can manage contact us and the feedback module.

4. Leave:

In this section superadmin can approve Leave and change the status of the leaves and edit admins and employees leave applications, also edit and delete their leaves of admin and employees.

5. Logout:

Through this section superadmin can logout from the website

➤ **Admin Module:**

1. Register Employee:

In this section, Admin can only register new employees (add).

2. Employee:

In this section admin show employees details which were added by them and manage employees (edit, delete).

3. Contact Us:

In this section admin can manage contact us and feedback module

4. Leave:

In this section admin can approve leave and edit leave applications which employees registered by them and they can edit and delete their application if not accepted and rejected by superadmin.

5. Logout:

Through this section admin logout from the website

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➤ Employee:

1. Profile:

In this section employees can view their details

2. Leave:

In this section can view their applied leaves status and edit their applied leaves if not have been accepted or rejected by superadmin and admins

3. Contact Us:

In this section employees can send them feedbacks

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SYSTEM REQUIREMENTS

➤ **Hardware Requirements:**

Processor	Intel(R) Core (TM) i5-8350U CPU @1.70Ghz 1.90Ghz
Ram	16.0GB (15.9GB) usable
Hard disk	64-bit operating system x64-based processor
Operating system	Windows-11

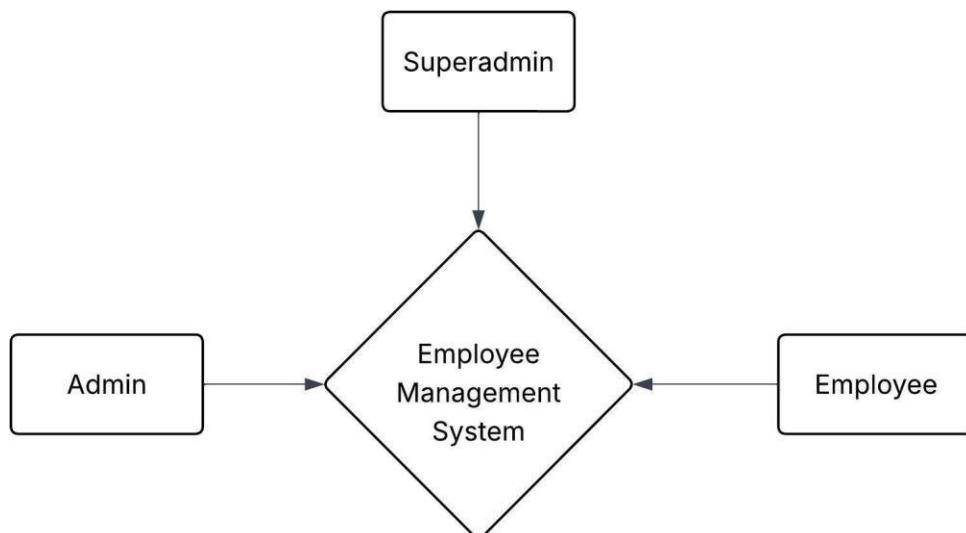
➤ **Software Requirements:**

Front End tool	PHP
Back-end tool	MYSQL
Editing tool	Visual Studio code
Browser	Internet Explorer or Mozilla Firefox or Google Chrome

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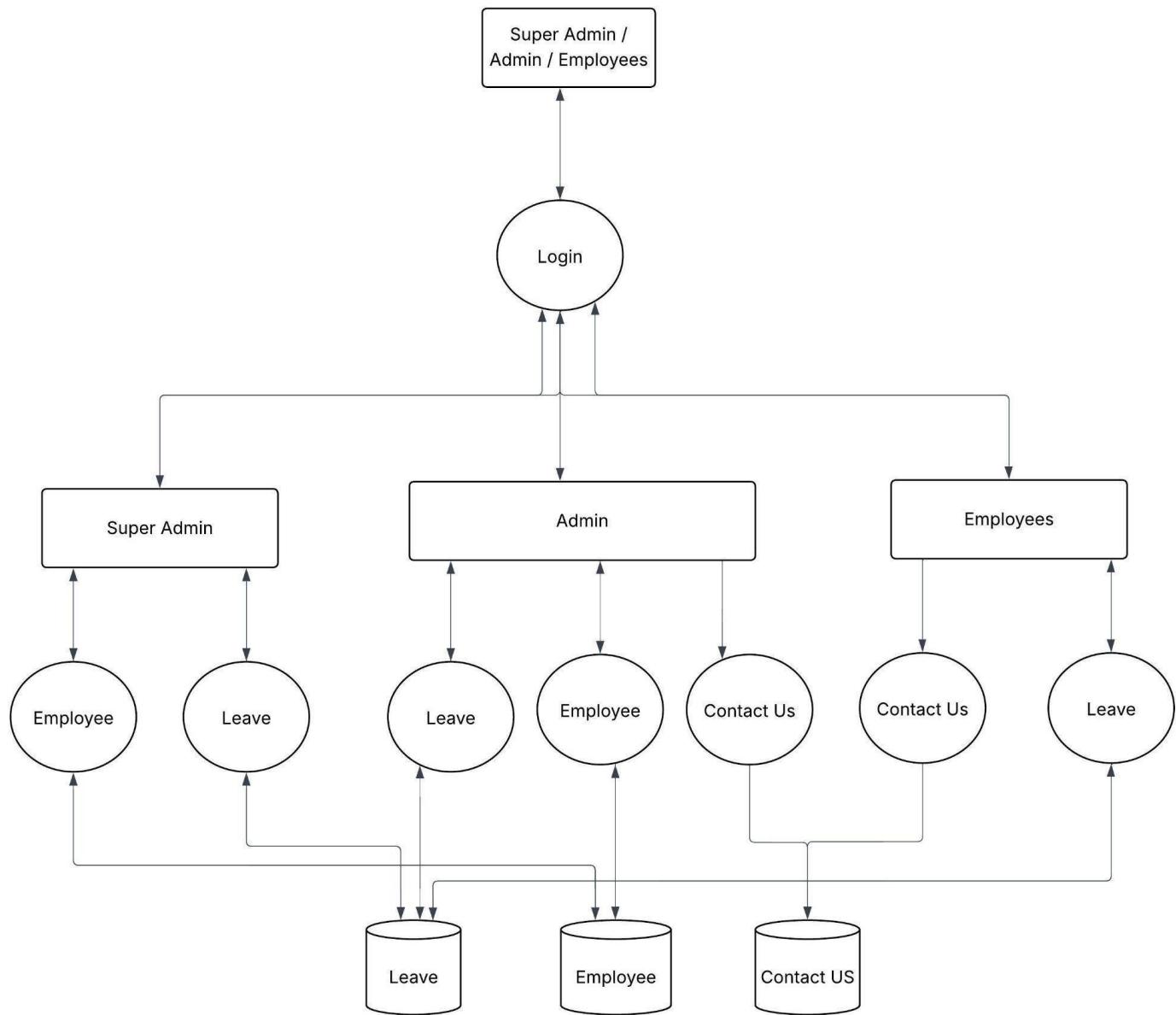
DATA FLOW DIAGRAM

➤ **CONTEXT LEVEL DFD: -**



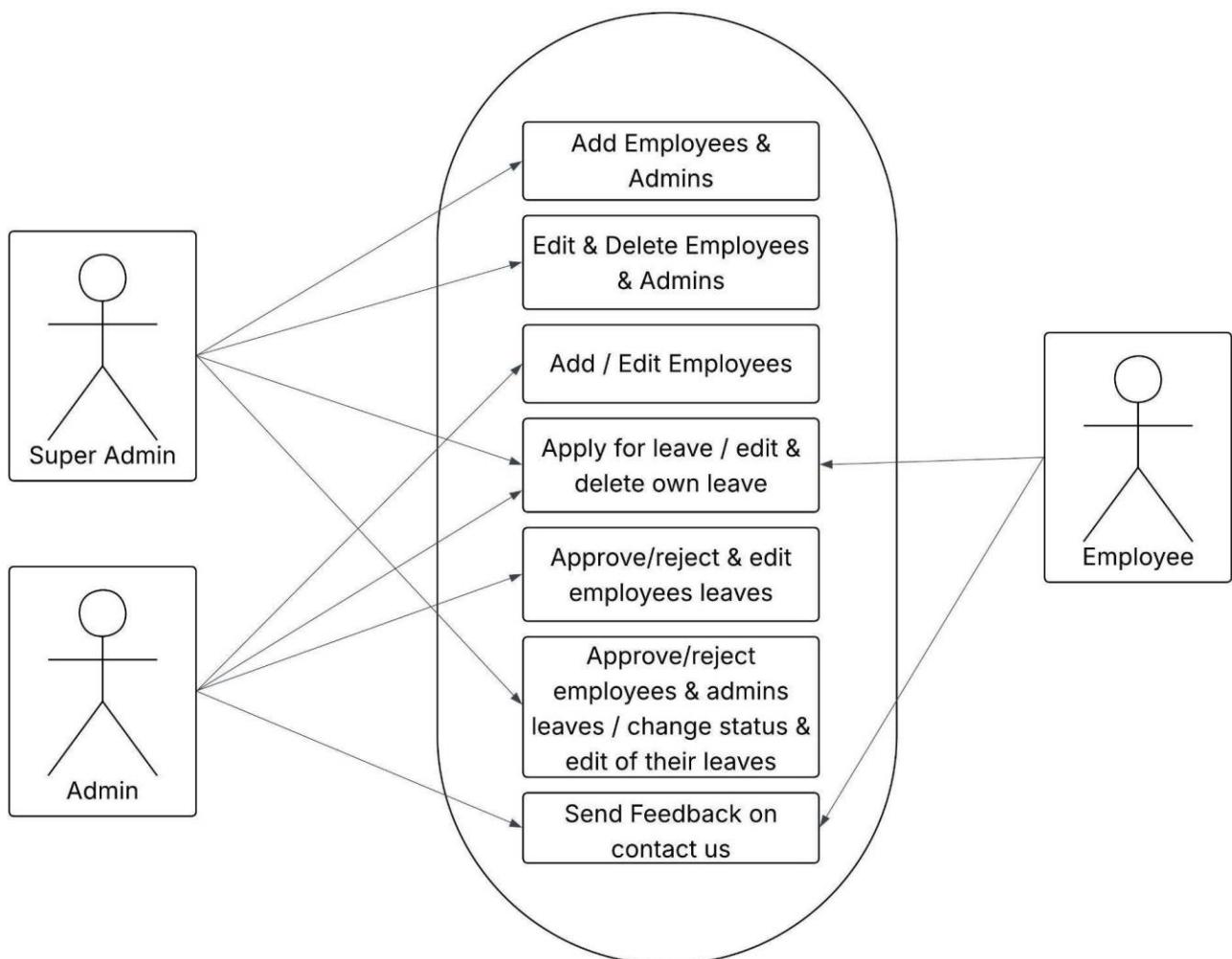
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➤ ONE LEVEL DFD:



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USE CASE DIAGRAM



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DATA DICTIONARY

A data dictionary is a set of information describing the contents, format and structure of a database and the relationship between its elements, used to control access to and manipulation of the database.

➤ DATABASE TABLES:

- _admin_regi
- _emp_regi
- _contact_ua
- _leave_application

1. _admin_regi :-

Field name	Data type	Size	Constraint key
Id	Int	10	Auto increment
Name	Varchar	50	Not NULL
Password	Varchar	50	Not NULL
Contact Number	Bigint	10	Not NULL
Email	Varchar	200	Not NULL
Package	Int	20	Not NULL
JoiningDate	Date	-	Not NULL
DOB	Date	-	Not NULL
Department	Varchar	10	Not NULL
Designation	Varchar	10	Not Null
Created By	varchar	50	Not Null
Updated By	varchar	50	Not Null

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2. _emp_regi:-

Field name	Data type	Size	Constraint key
Id	Int	10	Auto increment
Ename	Varchar	50	Not NULL
Password	Varchar	50	Not NULL
Contact Number	Bigint	10	Not NULL
Email	Varchar	200	Not NULL
Package	Int	20	Not NULL
Joining Date	Date	-	Not NULL
DOB	Date	-	Not NULL
Department	Varchar	10	Not NULL
Designation	Varchar	10	Not Null
Admin	Varchar	10	Not Null
Created By	varchar	50	Not Null
Updated By	varchar	50	Not Null

3. _contact_us :

Fieldname	Data type	Size	Constraint key
Id	Int	10	Auto Increment
cu_name	Varchar	200	Not NULL
cu_email	Int	15	Not NULL
cu_number	Varchar	100	Not NULL
created_by	Varchar	100	Not Null

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4. _leave_application:-

Fieldname	Data type	Size	Constraint key
leave_Id	Int	11	Auto Increment
applicant	varchar	50	Not Null
designation	varchar	50	Not Null
department	varchar	50	Not Null
leave_type	Varchar	100	Not NULL
reasone	Varchar	300	Not NULL
from_date	Date	-	Not NULL
to_date	Date	-	Not NULL
status	int	5	Not NULL
accepted_by	Varchar	50	Not NULL

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TEST CASES

The testing phase is an important part of the software developed. It is the process of finding errors and missing operations and a complete verification to determine whether the objectives are met and the user requirements are satisfied.

➤ Login Screen:

Test Case ID	Module	Test Scenario	Test Steps	Input Data	Expected Result	Actual Result	Status
TC001	Login	Valid Login	Enter valid admin name& password	Admin name: admin, Password: admin@123	User redirected to Home page	As expected,	Pass
TC002	Login	Invalid login	Enter valid username & wrong password	Admin name: admin, Password: xyz	Error message shown	As expected,	Pass
TC003	Login	Valid Login	Enter valid username & password	User name: user_one Password: user@123	User redirect to Home page	As expected,	Pass
TC004	Login	Invalid Login	Enter valid username & password	User name: user_one Password:xyz	Error message shown	As expected,	Pass

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➤ Employee & Admin Register Screen for Superadmin & Admins:

Test Case ID	Module	Test Scenario	Test Steps	Input Data	Expected Result	Status
TC001	Register	Successful Registration	Fill all fields and click "Register"	Name, Contact no, Email, Password, Joining Date, Date of Birth, Department, Designation, Package	Account created & confirmation message shown	Pass
TC002	Register	Missing Field Validations	Leave "Email" and "Contact no", "Password" empty and click "Register"	Name, Joining Date, Date of Birth, Department, Designation, Package	Error message: "Fields are required"	Pass
TC003	Register	Duplicate Email and contact no	Try to register with an already registered email and contact number	Email: test@test.com Contact no: 1234567890	Error message: "Email and contact no already exists"	Pass
TC004	Register	Invalid Joining Date and Birth of Date	Joining date and Date of Birth is same, If Birth of date is invalid means age is under 18 from joining date	Joining Date: 28-9-25, Date of Birth: 28-9-16	Error Message : "Enter Valid dates"	Pass

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➤ Employees & Admins Listing for Superadmin & Admins:

Test Case ID	Module	Test Scenario	Test Steps	Expected Result	Status
TC001	Employee and admins list	Employees and Admins List	Superadmin: All employees and admins listed here, Admins: Which employees listed here which are registered by them.	List of employees and admins shown basis on role	Pass

➤ Show Leave Applications Screen:

Test Case ID	Module	Test Scenario	Test Steps	Expected Result	Status
TC001	Leave (Admin)	Leave Applications List	Superadmin: All employees and admins leave applications listed here, Admins: Which employees leave applications listed here which are registered by them.	Leave Applications list which applied by employees and admins	Pass

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➤ Employees & Admins Edit Screen for Admins & Superadmin:

Test Case ID	Module	Test Scenario	Test Steps	Input Data	Expected Result	Status
TC001	Edit	Successful Edit	Fill all fields and click "Edit"	Name, contact no, Email, Password, Joining Date, Date of Birth, Department, Designation, Package	Account Edit & confirmation message shown	Pass
TC002	Edit	Missing Field Validations	Leave "Email" and "Contact no", "Password" empty and click "Edit"	Name, Joining Date, Date of Birth, Department, Designation, Package	Error message: "Fields are required"	Pass
TC003	Edit	Duplicate Email and contact no	Try to Edit with an already registered email and contact number	Email: test@test.com Contact no : 1234567890	Error message: "Email and contact no already exists"	Pass
TC004	Edit	Invalid Joining Date and Birth of Date	Joining date and Date of Birth is same , If Birth of date is invalid means age is under 18 from joining date	Joining Date: 28-9-25, Date of Birth: 28-9-16	Error Message: "Enter Valid dates"	Pass

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> Leave Screen:

Test Case ID	Module	Test Scenario	Test Steps	Input Data	Expected Result	Status
TC001	Leave (Emp / Admin)	Leave Request	Fill Leave Form and click "Apply Leave"	Leave type, leave reason, from date and to date	Leave request submitted successfully and send message	Pass
TC002	Leave (Emp / Admin)	Missing leave type, From and to date	Submit without leave type and from and to date	Leave reason	Error Message: Fill required fields please	Pass
TC003	Leave (Emp / Admin)	Invalid Date range	From date greater than to date	From: 29-9-25 To: 28-9-25	Error Message: Enter Valid dates	Pass
TC004	Leave / superadmin	Change status	Leave must be approved or rejected	Leave status will be accepted or rejected	Success Message: Leave Status change successfully	Pass

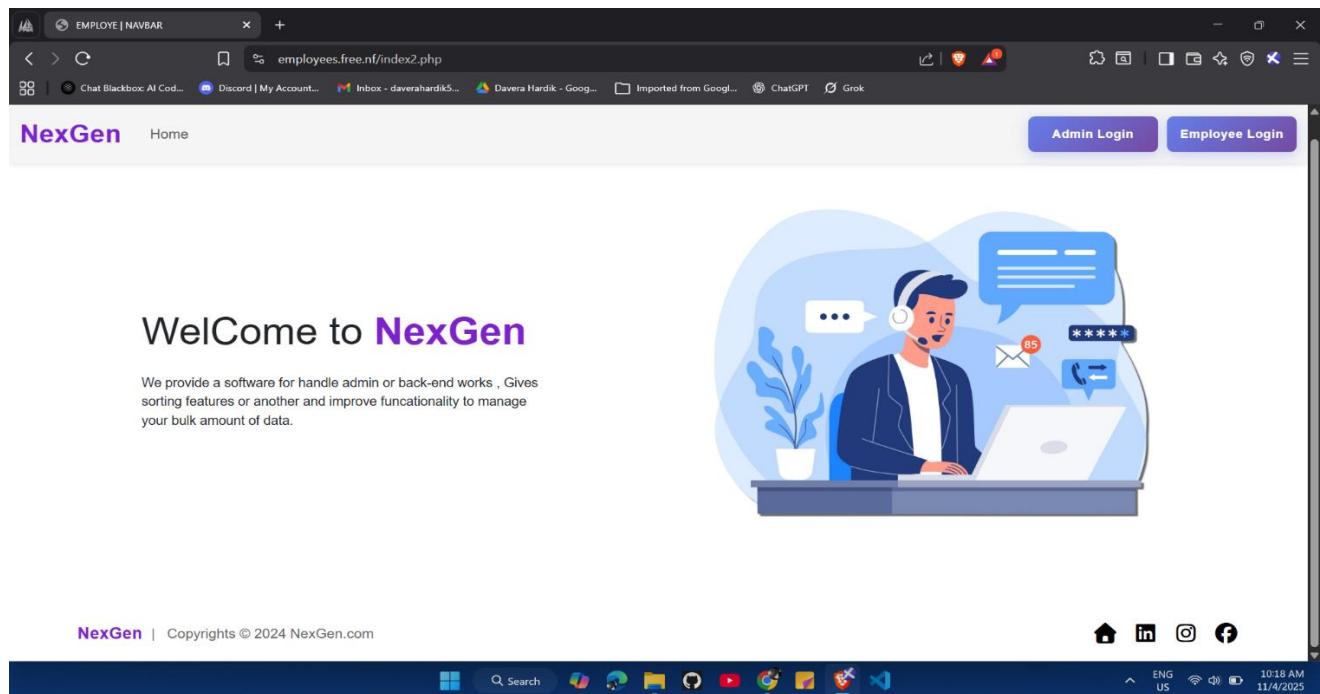
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TC005	Leave / Superadmin	Edit Leave	Leave will not be accepted or rejected	Leave type, Leave Reason, From date and to date	Success Message: Leave Updated successfully	Pass
TC006	Leave / superadmin / admin / Employee	Edit & Delete Leave	Leave status will be pending	Edit: Leave Type, Leave reason, from date, To date	Success Message: Edit -> Leave Application Updated successfully, Delete -> Leave application deleted successfully	Pass

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SNAP SHOTS

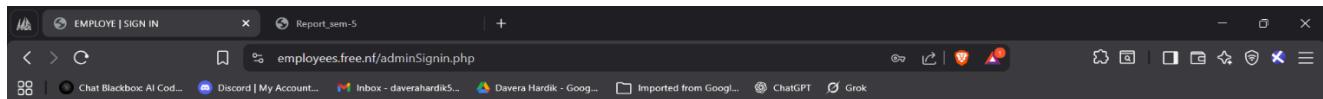
➤ Home Screen:



→ This is the home screen before login of employees and admins

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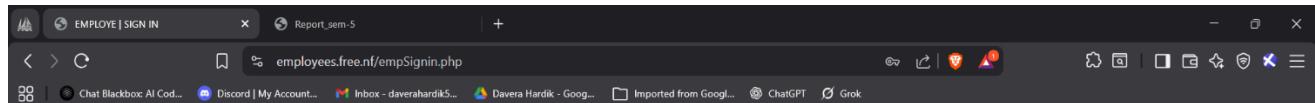
➤ Admin Login Screen:



→ This login form for admins and superadmin, after login they moved to the home screen.

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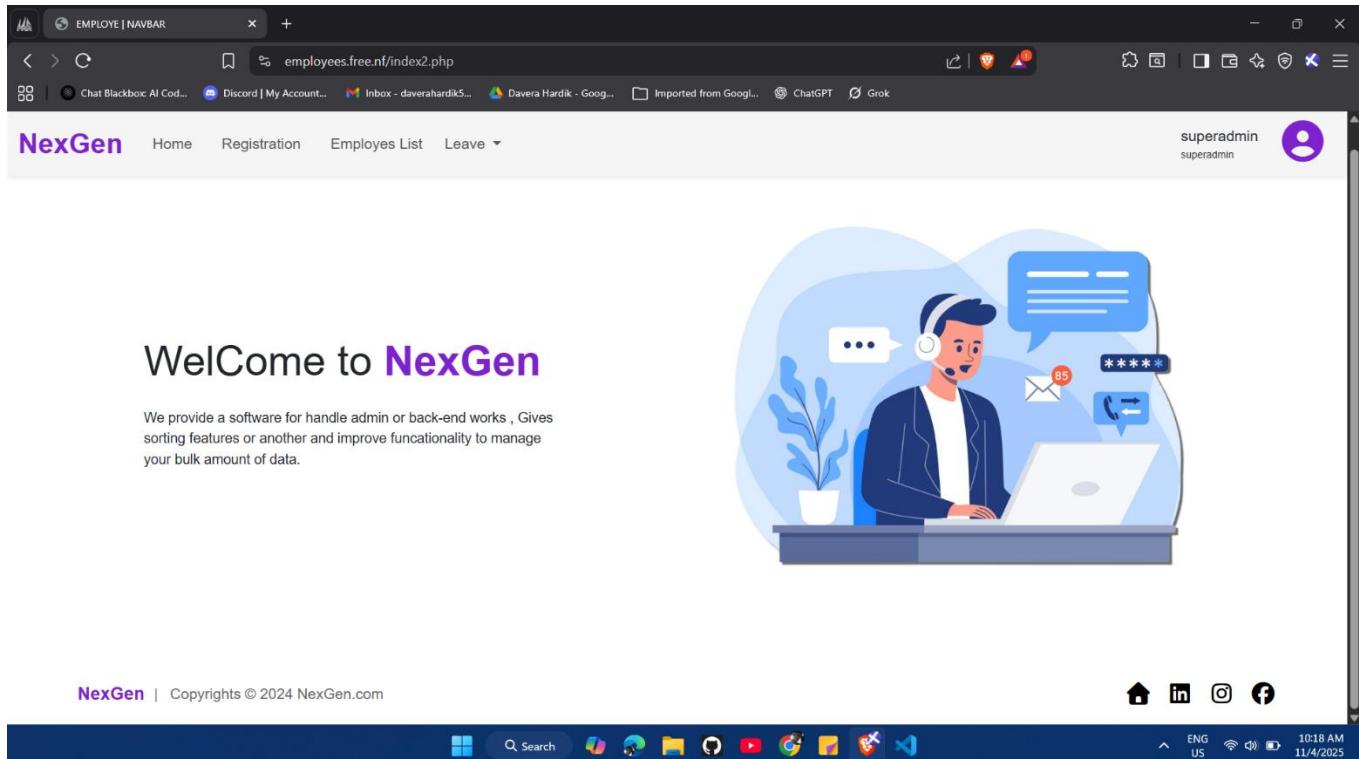
➤ Employee Login Screen:

A detailed view of the "SIGN IN" form. It has a purple header with the text "SIGN IN". Below it are two input fields: one for "Enter Name" and another for "Password", both with placeholder text. A large blue "SIGN IN" button is centered below the fields. At the bottom of the form is a small link "Go to Home Page".

→ This login form for employees, after login they moved to the home screen.

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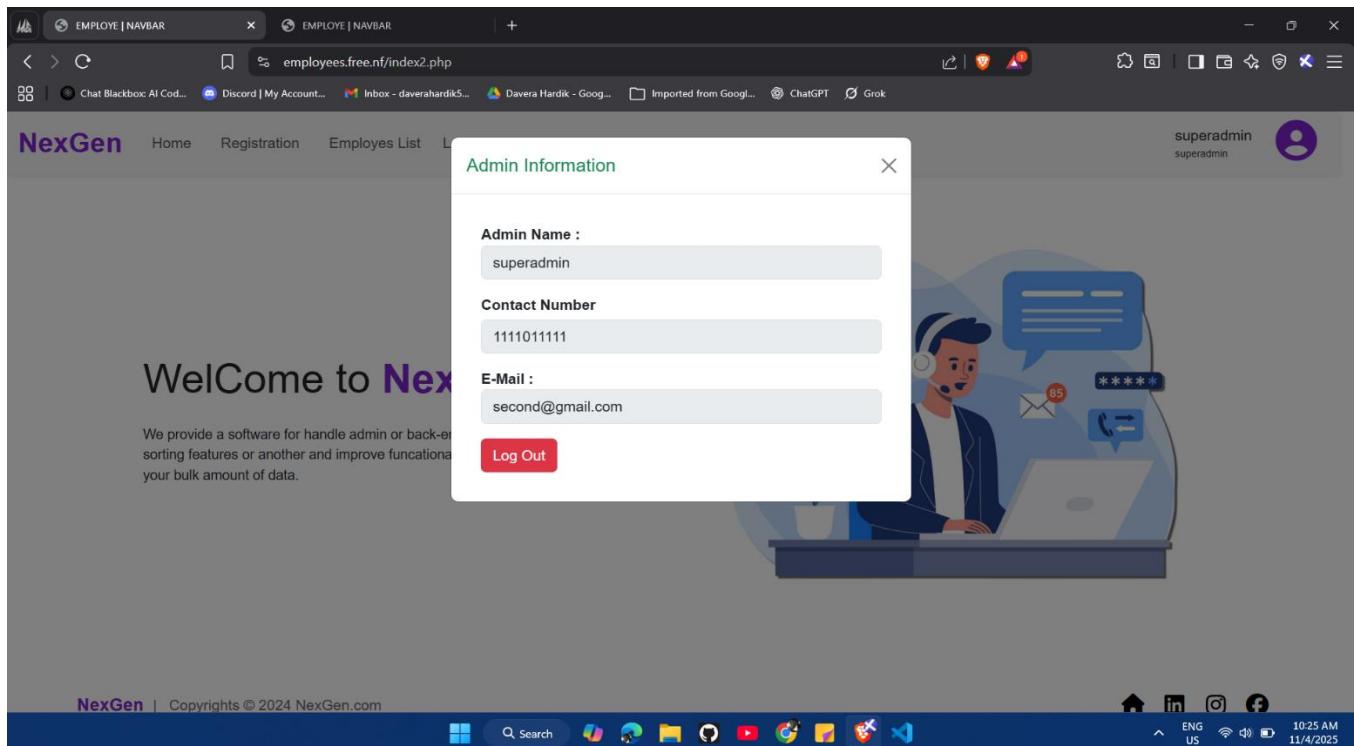
➤ After Login Home Screen:



→ This is the home screen after login.

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➤ Admins and Employees Profile Screen:



→ Here, Profile section admins and employees see them details and also logout from the website.

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➤ Employee & Admin Register Screen:

The screenshot shows a web browser window titled "EMPLOYEE | REGISTRATION". The URL in the address bar is "employees.free.nl/registration.php". The page header includes the "NexGen" logo and navigation links for "Home", "Registration", "Employees List", and "Leave". On the right side, there is a user profile section for "superadmin" with a purple profile picture. The main content area is titled "Employee Registration". It contains several input fields: "Employee Name:" (placeholder "Enter Employee Name..."), "Employee Contact No.:" (placeholder "Enter Employee Contact No..."), "Employee Email:" (placeholder "Enter Employee Email..."), "Enter Password:" (placeholder "Enter Password..."), "Enter Joing Date:" (placeholder "mm/dd/yyyy" with a calendar icon), "Enter Date of Birth:" (placeholder "mm/dd/yyyy" with a calendar icon), "Enter Department:" (placeholder "Marketing"), "Enter Designation:" (placeholder "Enter Designation..."), and "Enter Package:" (placeholder "Enter Package..."). At the bottom of the page, there is a dark blue footer bar with various icons and text indicating "ENG US", "10:19 AM", and the date "11/4/2025".

- Here we can register new employees and admins.
- Superadmin can register new employees and admins also.
- But the admin can register only employees.

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➤ Employees & Admins Listing Screen:

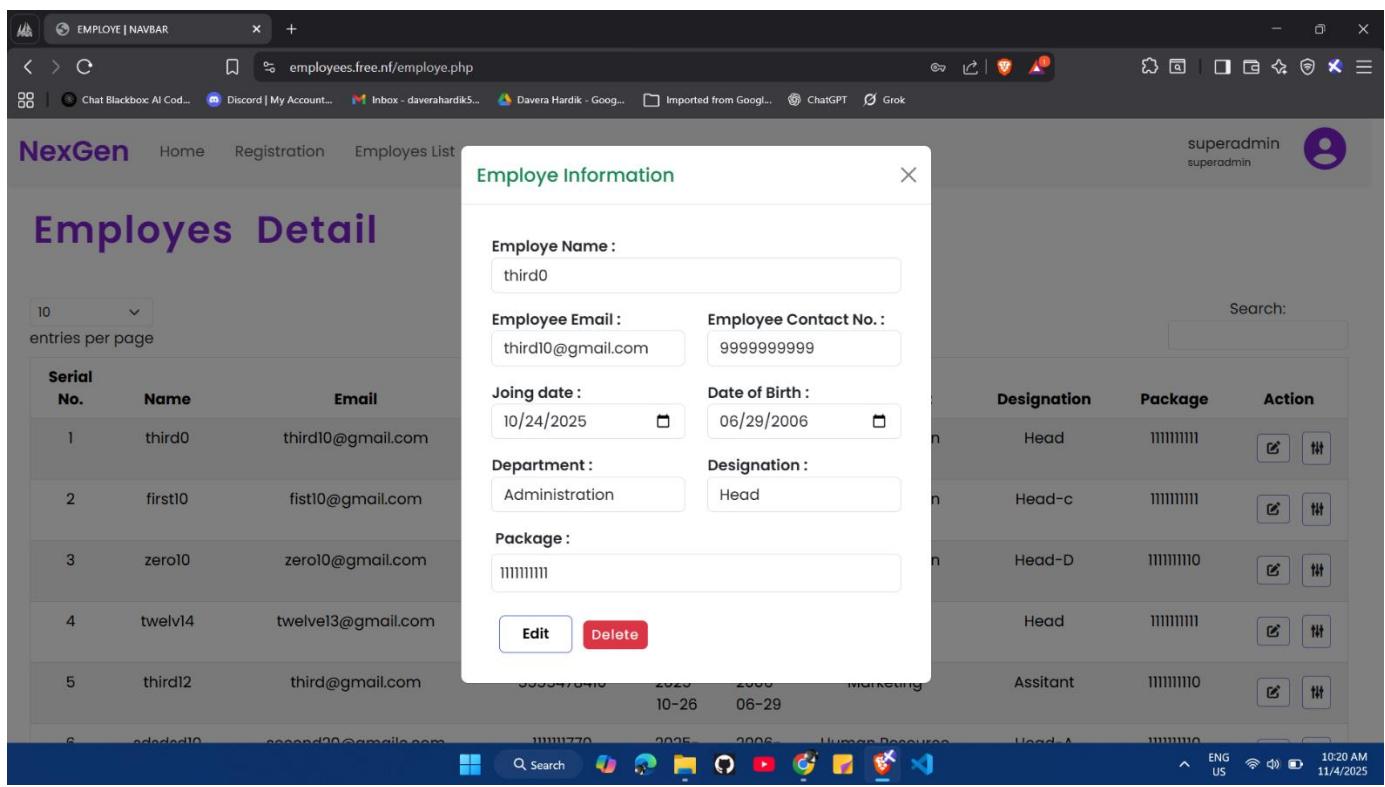
The screenshot shows a web browser window titled "EMPLOYEE | NAVBAR" with the URL "employees.free.nt/employee.php". The page is titled "Employees Detail". It features a table with 6 rows of employee data. The columns are: Serial No., Name, Email, Contact No., Joining Date, Date of Birth, Department, Designation, Package, and Action. The data is as follows:

Serial No.	Name	Email	Contact No.	Joining Date	Date of Birth	Department	Designation	Package	Action
1	third0	third10@gmail.com	9999999999	2025-10-24	2006-06-29	Administration	Head	1111111111	
2	first10	fist10@gmail.com	111111110	2025-10-21	2006-06-21	Administration	Head-c	1111111111	
3	zero10	zero10@gmail.com	111111850	2025-10-26	2006-02-09	Administration	Head-D	111111110	
4	twelv14	twelve13@gmail.com	4444577770	2025-10-26	2006-06-29	Marketing	Head	1111111111	
5	third12	third@gmail.com	5555478410	2025-10-26	2006-06-29	Marketing	Assitant	111111110	
6	sdsdsd10	second20@gmailc.com	111111770	2025-	2006-	Human Resource	Head-A	111111110	

- Here we can see the list of employees and admins.
- Where superadmin can show all employees and admins list.
- Admins can show that employees are registered by them.
- This list we can show based on role.

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➤ Employees & Admins Edit Screen:



- Here this form modal is used for edit & delete the information of employees and admins.
- Here superadmin can perform both work but admins can only edit information they can't delete the employees.
- That can be performed on role based permissions.

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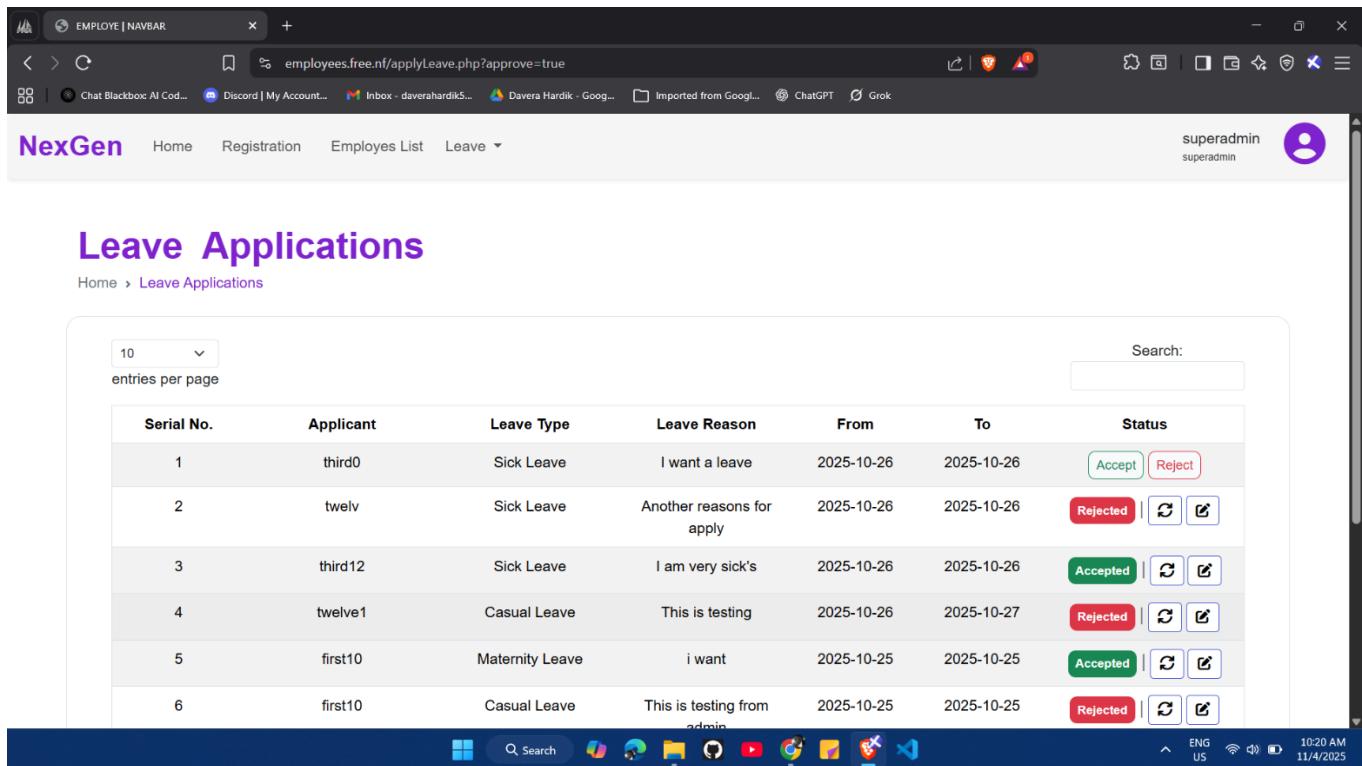
➤ Apply Leave Form Screen:

The screenshot shows a web browser window titled 'EMPLOYEE | NAVBAR' with the URL 'employees.free.nf/applyLeave.php?apply=true'. The page is titled 'Leave Form' and contains fields for 'Leave Type' (a dropdown menu), 'Leave Reason' (a text area), 'From Date' and 'To Date' (date pickers), and an 'Apply Leave' button. The browser's address bar shows other tabs like 'Chat Blackbox: AI Cod...', 'Discord | My Account...', 'Inbox - daverahardik5...', 'Davera Hardik - Goog...', 'Imported from Google...', 'ChatGPT', and 'Grok'. The top right of the browser shows user information: 'superadmin' and a profile icon. The bottom of the screen shows a Windows taskbar with various icons and the date/time '10:19 AM 11/4/2025'.

→ Form of Leave application, we can send application for leave to admins and superadmin

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➤ Leave Applications Screen:



Serial No.	Applicant	Leave Type	Leave Reason	From	To	Status
1	third0	Sick Leave	I want a leave	2025-10-26	2025-10-26	<button>Accept</button> <button>Reject</button>
2	twelv	Sick Leave	Another reasons for apply	2025-10-26	2025-10-26	<button>Rejected</button> <button>Edit</button> <button>Delete</button>
3	third12	Sick Leave	I am very sick's	2025-10-26	2025-10-26	<button>Accepted</button> <button>Edit</button> <button>Delete</button>
4	twelve1	Casual Leave	This is testing	2025-10-26	2025-10-27	<button>Rejected</button> <button>Edit</button> <button>Delete</button>
5	first10	Maternity Leave	i want	2025-10-25	2025-10-25	<button>Accepted</button> <button>Edit</button> <button>Delete</button>
6	first10	Casual Leave	This is testing from admin	2025-10-25	2025-10-25	<button>Rejected</button> <button>Edit</button> <button>Delete</button>

- Here we show the applications of Leave which can be applied by the admins and employees.
- We can edit and change the status of the leave applications
- We can show applications listing role based.

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➤ Leave Applications Edit Screen:

The screenshot shows a web application interface for managing employee leave applications. At the top, there are two tabs labeled "EMPLOYEE | NAVBAR". The main content area has a title "Leave Applications" and a breadcrumb navigation "Home > Leave Applications". Below this is a search bar with dropdown menus for "entries per page" (set to 10) and a "Search:" input field. A modal window titled "Edit Leave" is open in the center. It contains fields for "Leave Type" (set to "Sick Leave") and "Leave Reason" (set to "Another reasons for apply"). Below these are date selection fields for "From Date" (10/26/2025) and "To Date" (10/26/2025), along with "Edit Leave" and "Clear" buttons. In the background, a table lists six leave applications with columns for "Serial No.", "Applicant", "Leave Type", "Reason", "From Date", "To Date", and "Status". The applications are as follows:

Serial No.	Applicant	Leave Type	Reason	From Date	To Date	Status
1	third0	Sick Leave	I am very sick's	2025-10-26	2025-10-26	Accepted
2	twelv	Casual Leave	This is testing	2025-10-26	2025-10-27	Rejected
3	third12	Sick Leave	i want	2025-10-25	2025-10-26	Accepted
4	twelve1	Maternity Leave	This is testing from admin	2025-10-25	2025-10-25	Rejected
5	first10	Casual Leave		2025-10-25	2025-10-25	Accepted
6	first10	Casual Leave		2025-10-25	2025-10-25	Rejected

At the bottom of the screen, there is a taskbar with various icons and a status bar showing "10:26 AM 11/4/2025". The top right corner shows the user "superadmin" and their profile icon.

→ Here, we can edit the leave applications which can be applied by the admins and employees.

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➤ Leave Status Screen:

The screenshot shows a web browser window titled "EMPLOYEE | NAVBAR" with the URL "employees.free.nf/applyLeave.php?leaveStatus=true". The page is titled "Leave Status" and shows a single leave application entry. The table has columns: Serial No., Applicant, Leave Type, Leave Reason, From, To, Status, and Actions. The entry details are: Serial No. 1, Applicant superadmin, Leave Type Casual Leave, Leave Reason This is my leave, From 2025-10-25, To 2025-10-26, Status Pending!, Actions Edit, Delete. A search bar and a pagination area showing 1 of 1 entry are also visible.

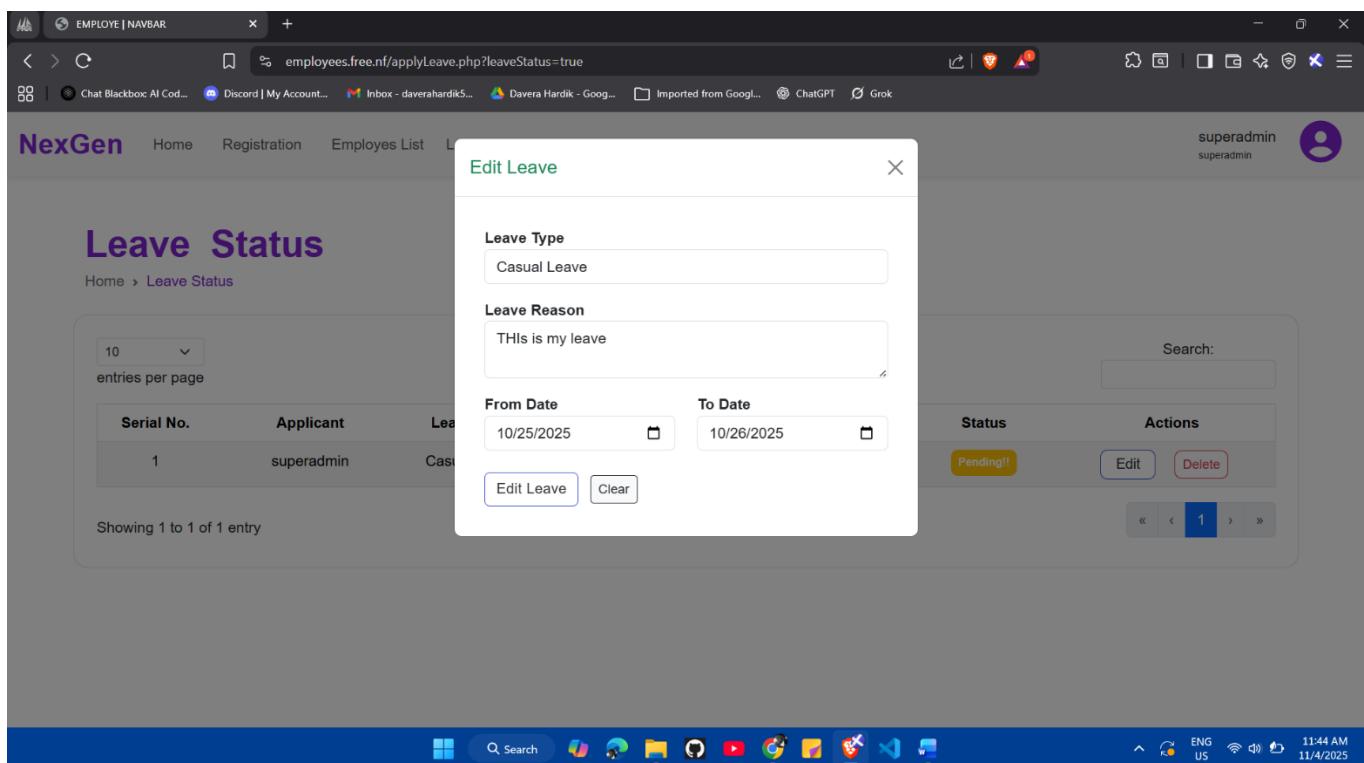
Serial No.	Applicant	Leave Type	Leave Reason	From	To	Status	Actions
1	superadmin	Casual Leave	This is my leave	2025-10-25	2025-10-26	Pending!	Edit Delete

→ There we can see the status of our leave applications

→ we can also update & delete that application until application is on pending

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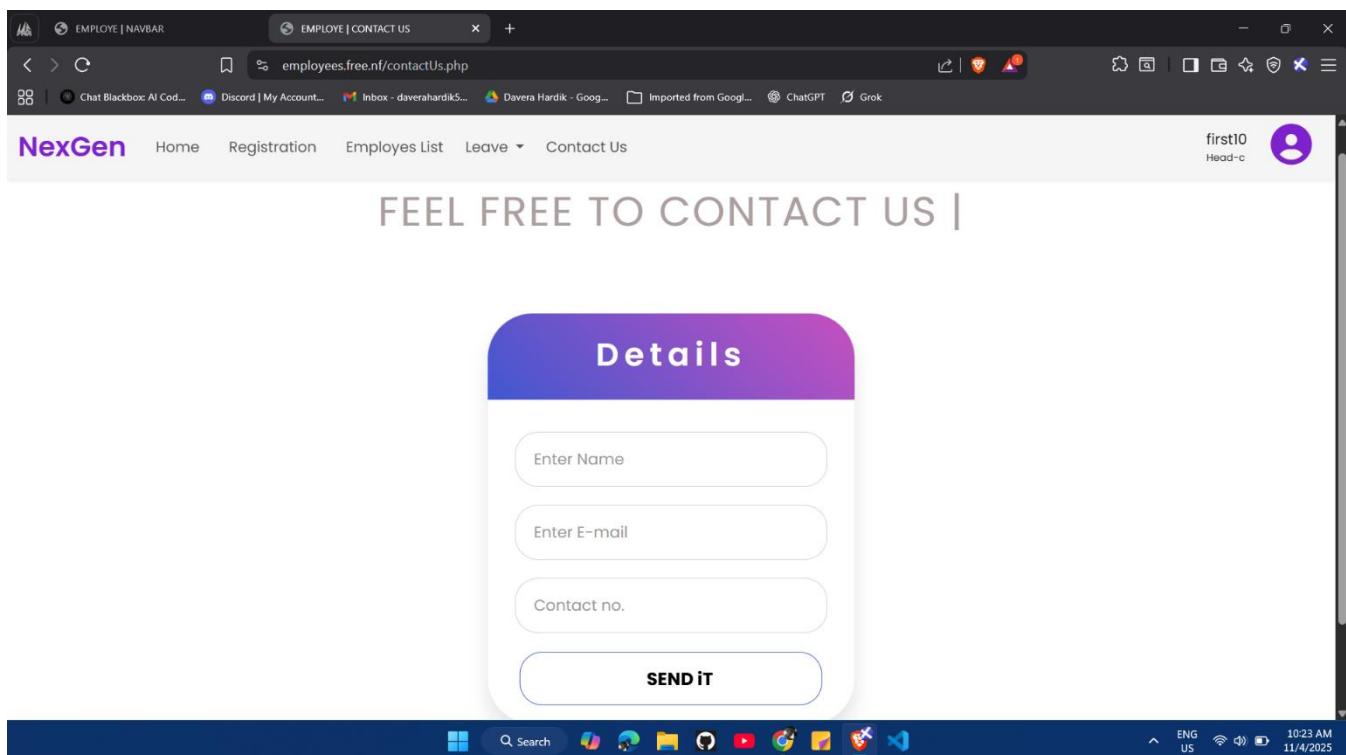
➤ Leave Status Edit Screen:



→ Here, Employees and admins can edit leave applications which are applied by them.

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➤ Contact Us Screen:



→ Admin and employees can send the details and contact with us

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- www.en.wikipedia.com