

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.

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

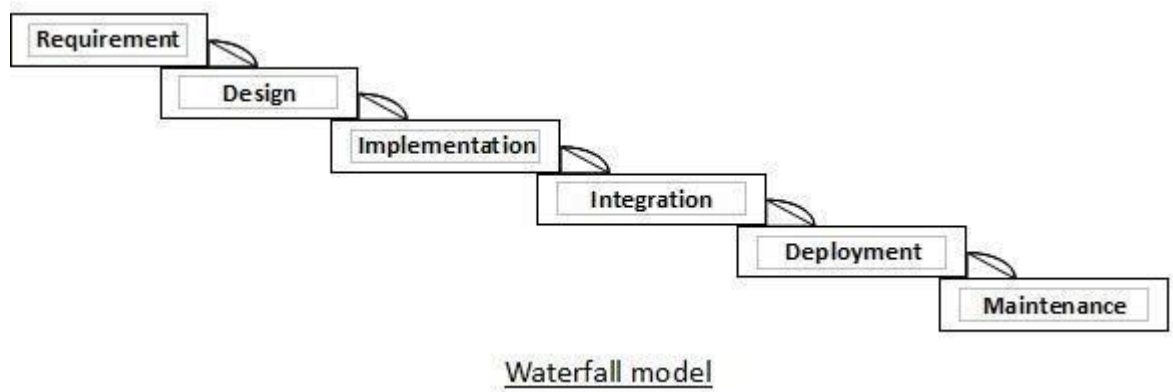
PROCESS MODEL

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

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

Employee management system

➤ **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

SYSTEM REQUIREMENTS

➤ **Hardware Requirements:**

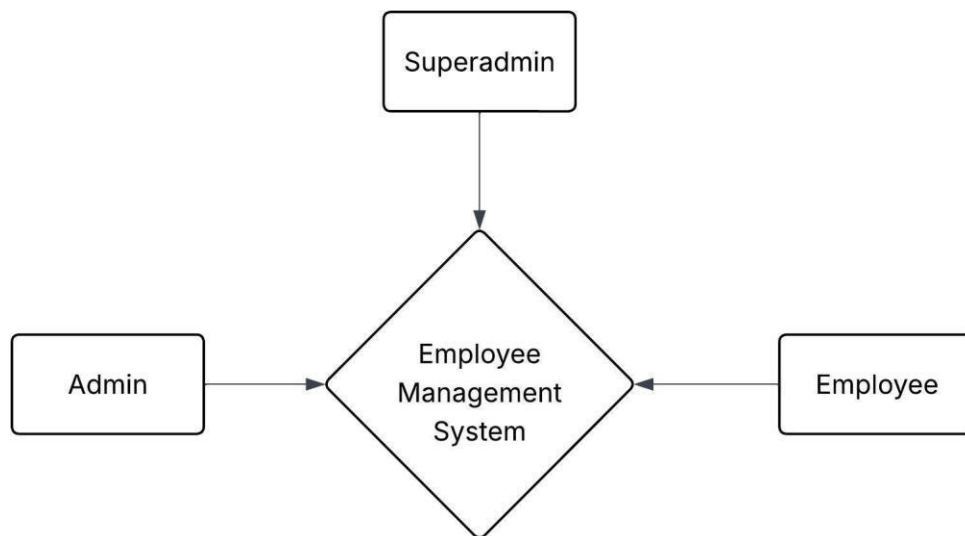
Processor	Intel(R) Core (TM) i5-8350U CPU @1.70Ghz 1.90Ghz
Ram	16.0GB (15.9GB) usable
Hard disk	64-bit operating system x64-based processor
Operating system	Windows-11

➤ **Software Requirements:**

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

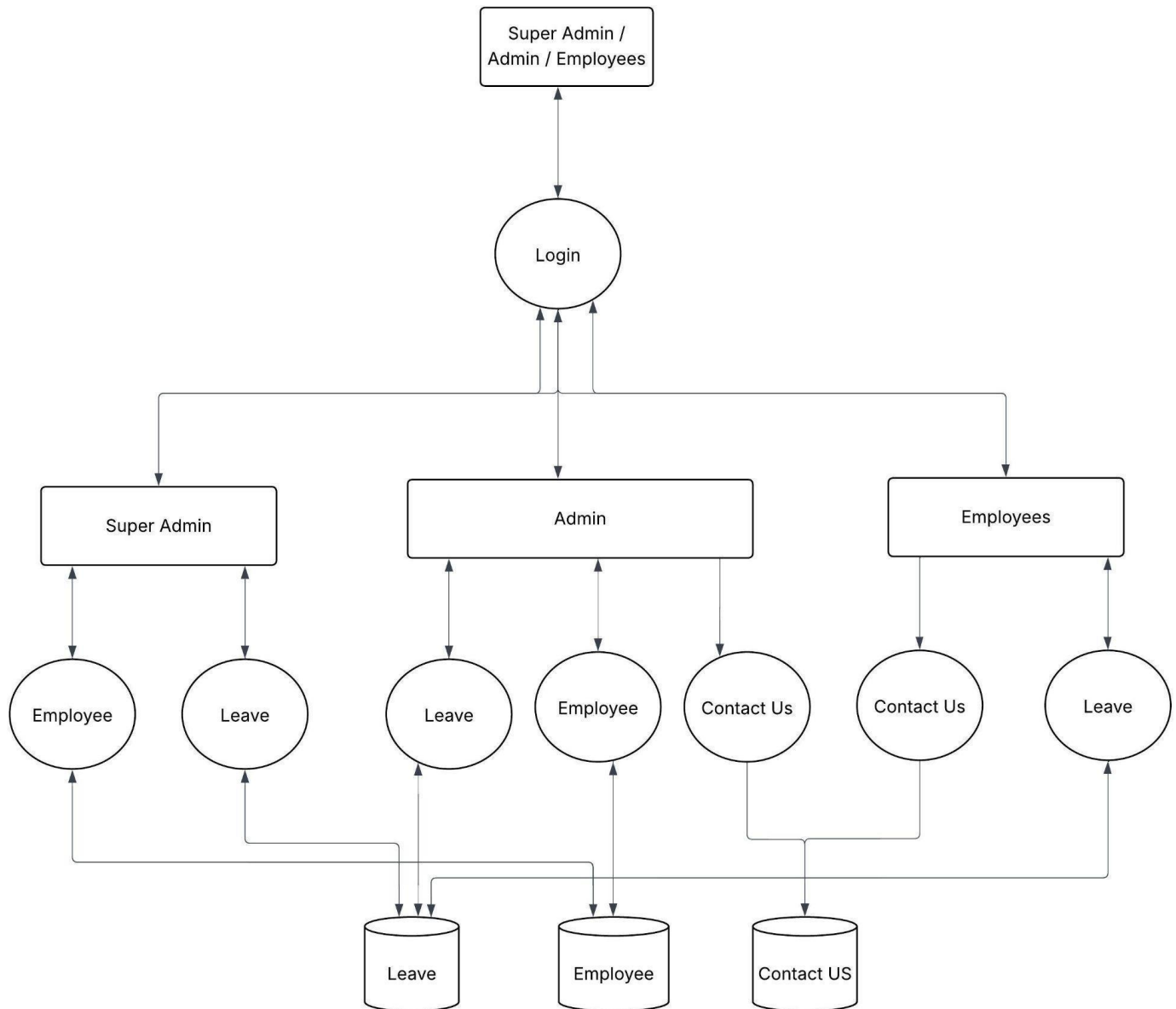
DATA FLOW DIAGRAM

➤ CONTEXT LEVEL DFD: -

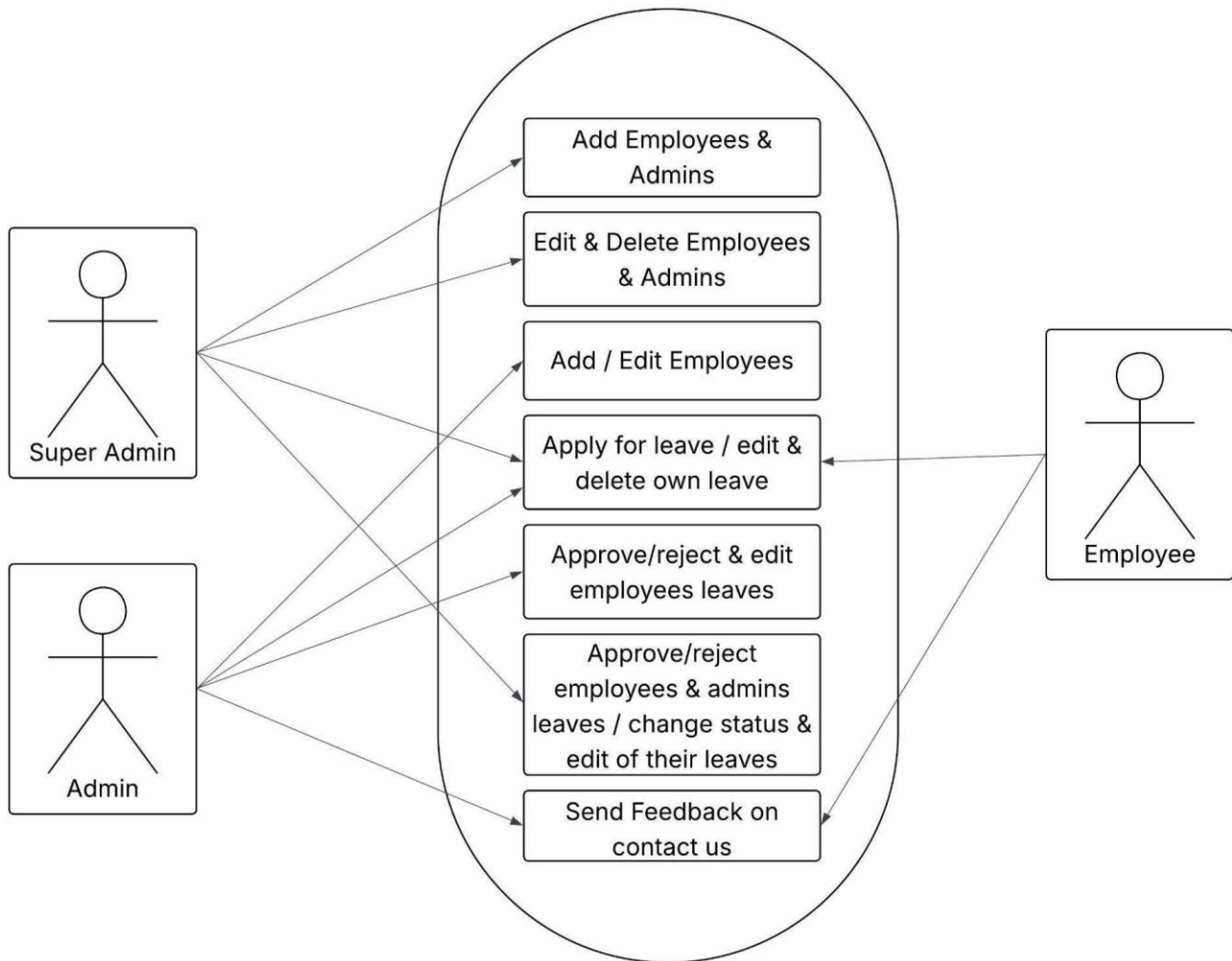


Employee management system

➤ ONE LEVEL DFD:



USE CASE DIAGRAM



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

Employee management system

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

Employee management system

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

Employee management system

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

Employee management system

➤ 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

Employee management system

➤ 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

Employee management system

➤ 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

Employee management system

➤ 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

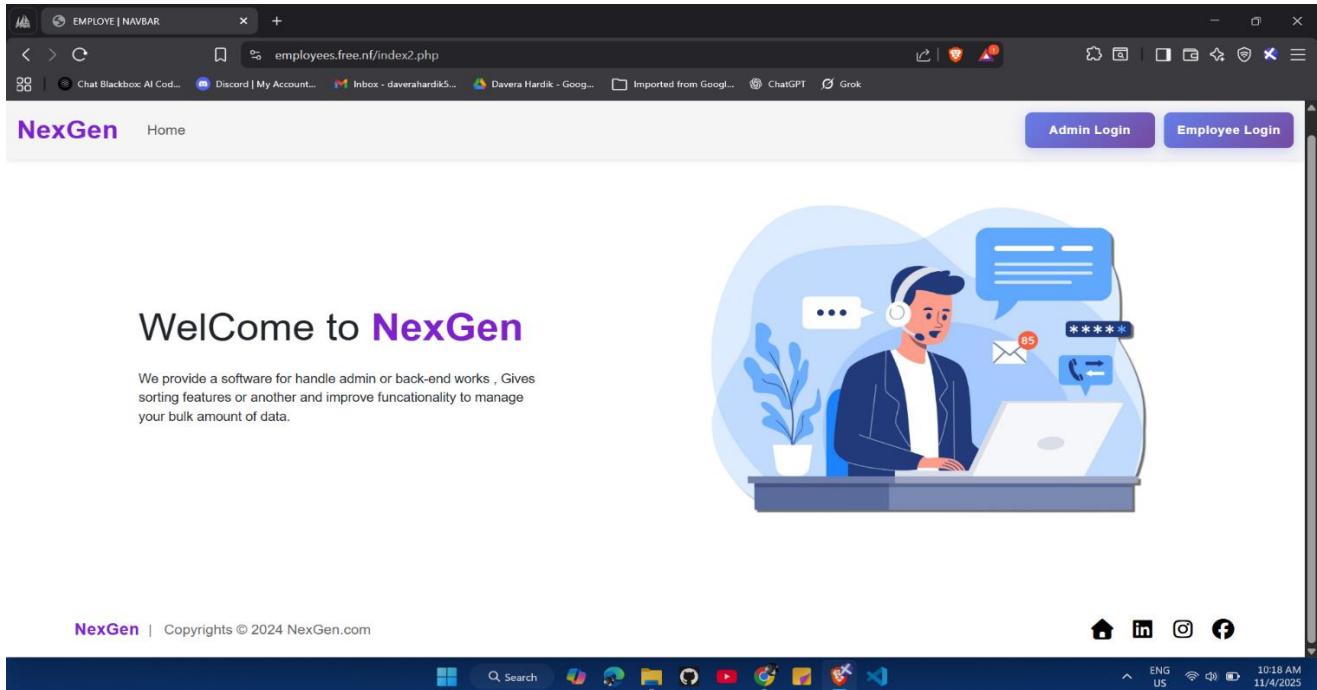
Employee management system

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

Employee management system

SNAP SHOTS

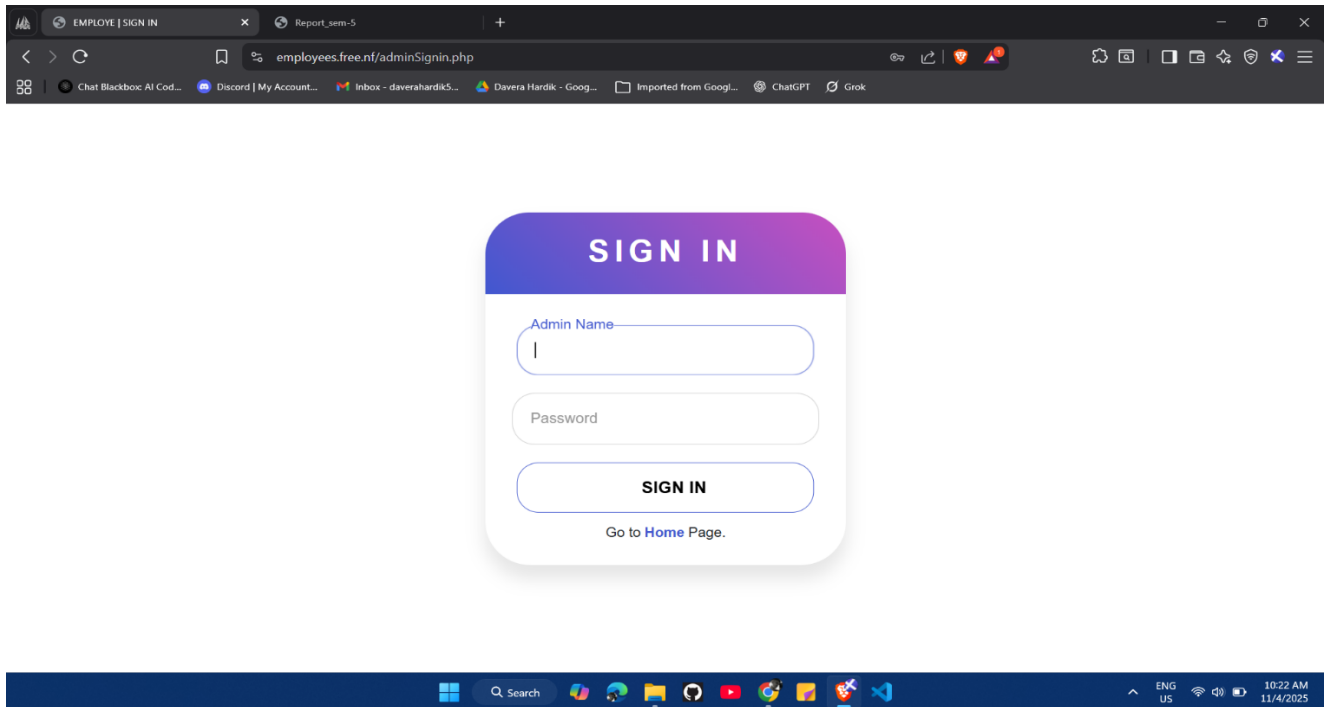
➤ Home Screen:



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

Employee management system

➤ Admin Login Screen:

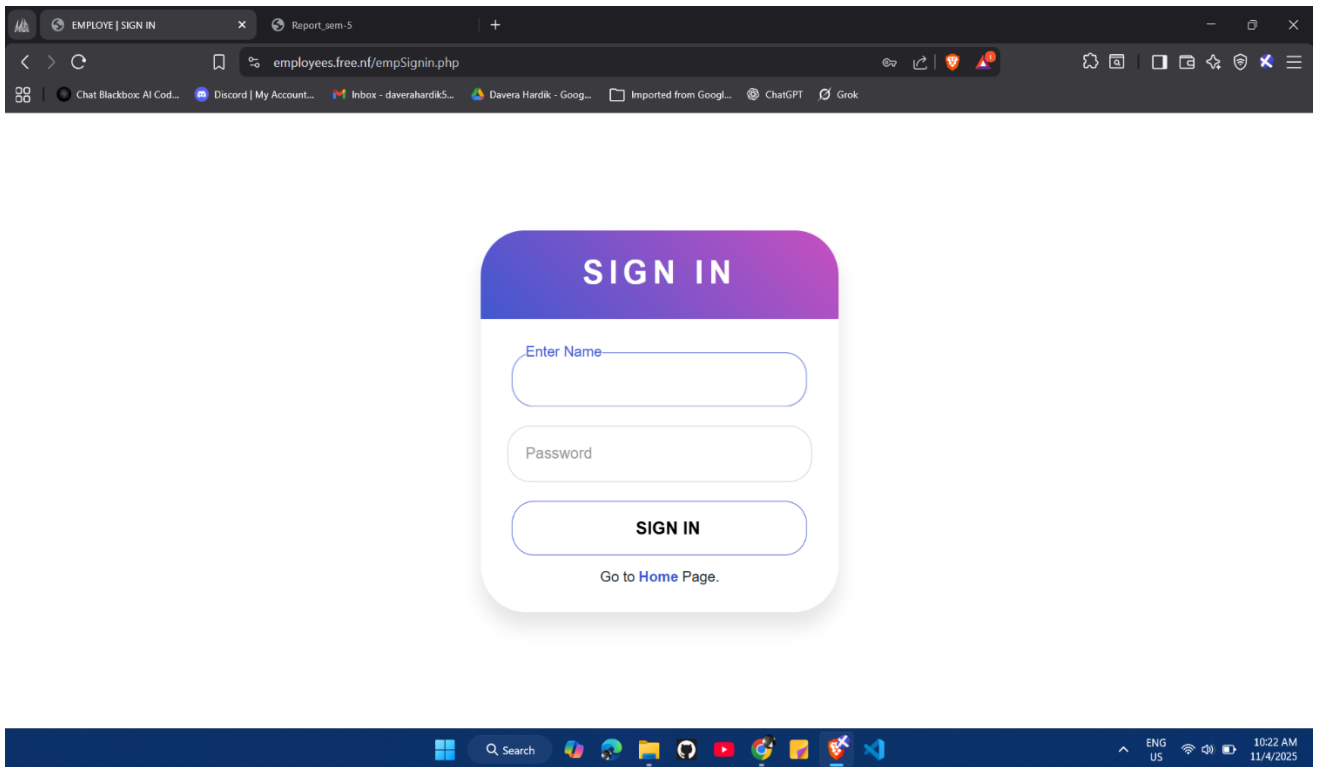


The screenshot shows a web browser window with the address bar displaying "employees.free.nt/adminSignIn.php". The browser's tab bar shows "EMPLOYEE | SIGN IN" and "Report sem-5". The browser's address bar also shows "employees.free.nt/adminSignIn.php". The browser's toolbar shows various icons for navigation and extensions. The main content area displays a login form with a purple header labeled "SIGN IN". The form contains two input fields: "Admin Name" and "Password". Below the input fields is a "SIGN IN" button. At the bottom of the form, there is a link that says "Go to Home Page." The browser's taskbar at the bottom shows various application icons and the system clock indicating "10:22 AM 11/4/2025".

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

Employee management system

➤ Employee Login Screen:



The screenshot displays a web browser window with the following elements:

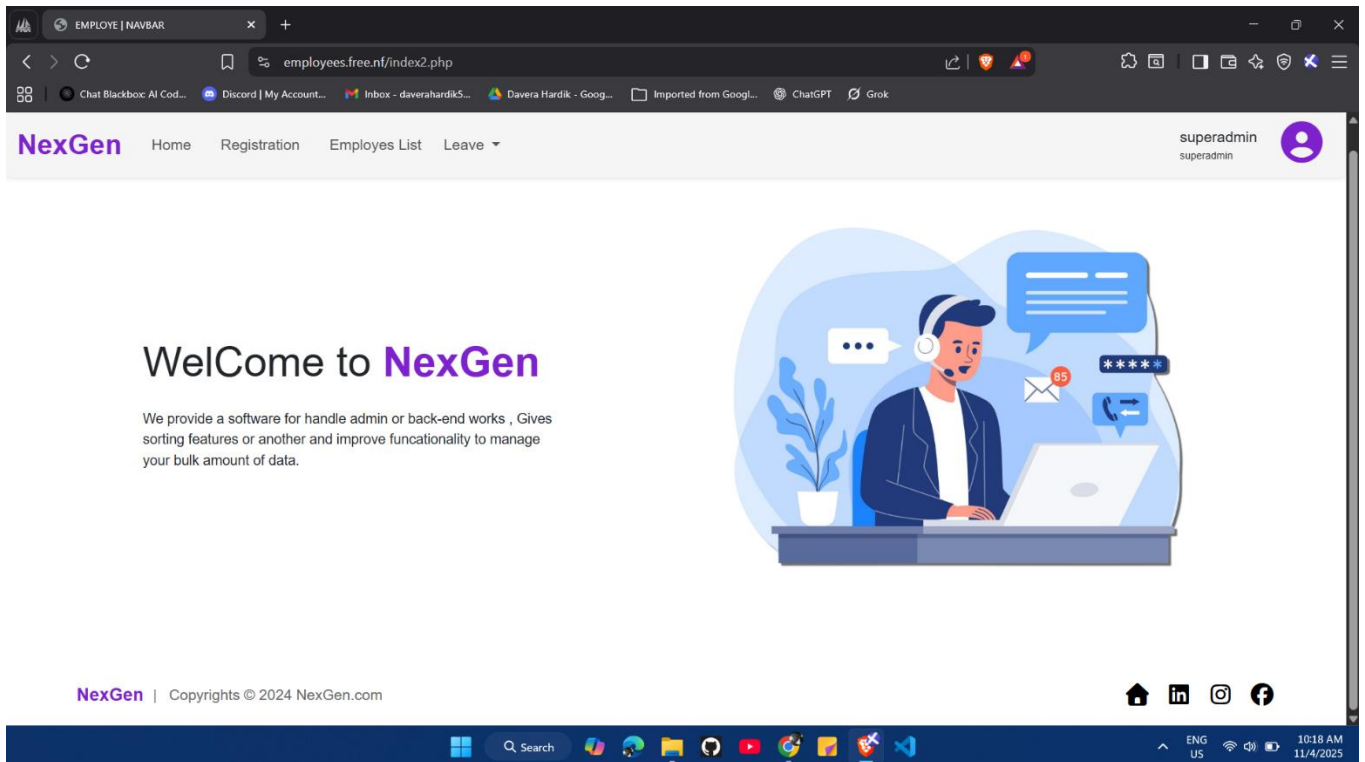
- Browser Tab:** EMPLOYEE | SIGN IN
- Address Bar:** employees.free.nf/empSignin.php
- Form Header:** A purple rounded rectangle containing the text "SIGN IN" in white.
- Input Fields:** Two white rounded rectangles with blue borders. The first is labeled "Enter Name" and the second is labeled "Password".
- Submit Button:** A white rounded rectangle with a blue border containing the text "SIGN IN" in blue.
- Footer:** A link that says "Go to Home Page." in blue.

The Windows taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray on the right indicates the language is ENG US, the time is 10:22 AM, and the date is 11/4/2025.

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

Employee management system

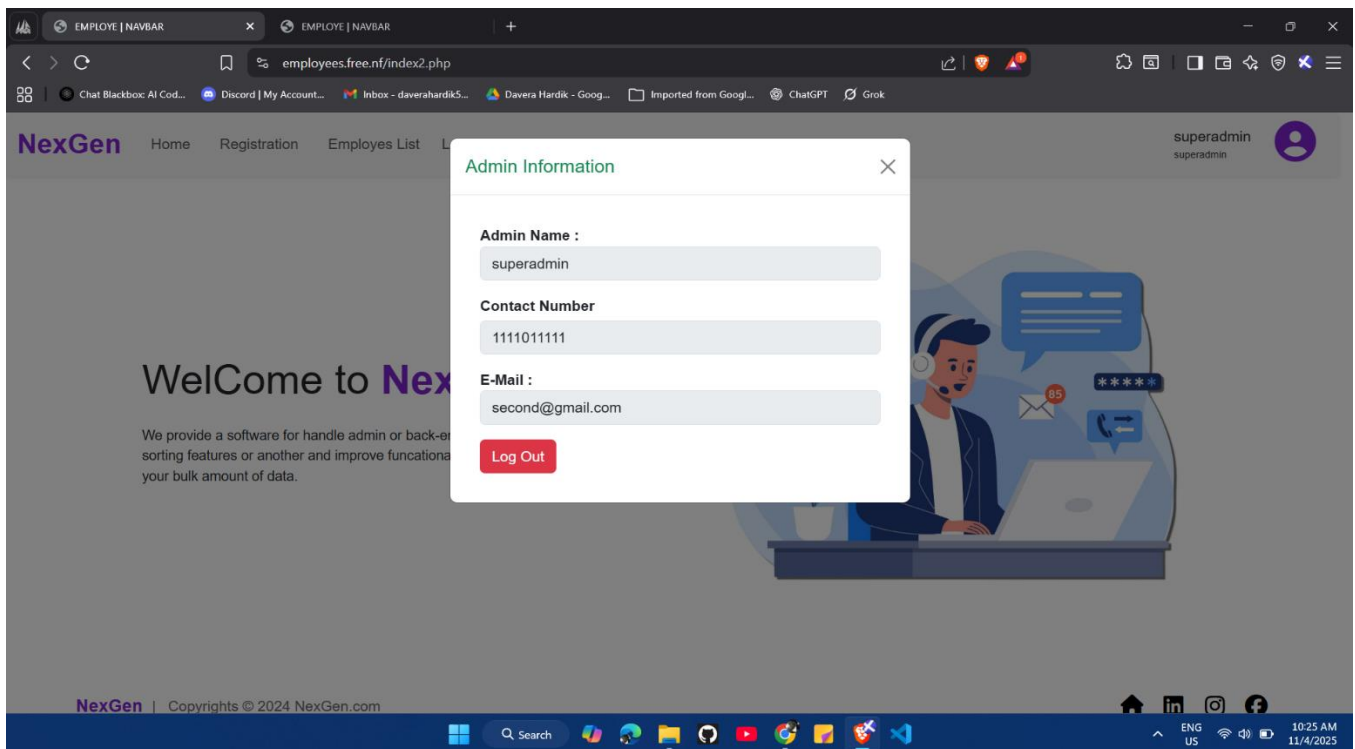
➤ After Login Home Screen:



➔ This is the home screen after login.

Employee management system

➤ Admins and Employees Profile Screen:



➔ Here, Profile section admins and employees see their details and also logout from the website.

Employee management system

➤ Employee & Admin Register Screen:

The screenshot shows a web browser window with the URL `employees.free.nf/registration.php`. The page title is "Employee Registration" and it features a navigation bar with "NexGen", "Home", "Registration", "Employees List", and "Leave". A user profile for "superadmin" is visible in the top right. The registration form includes the following fields:

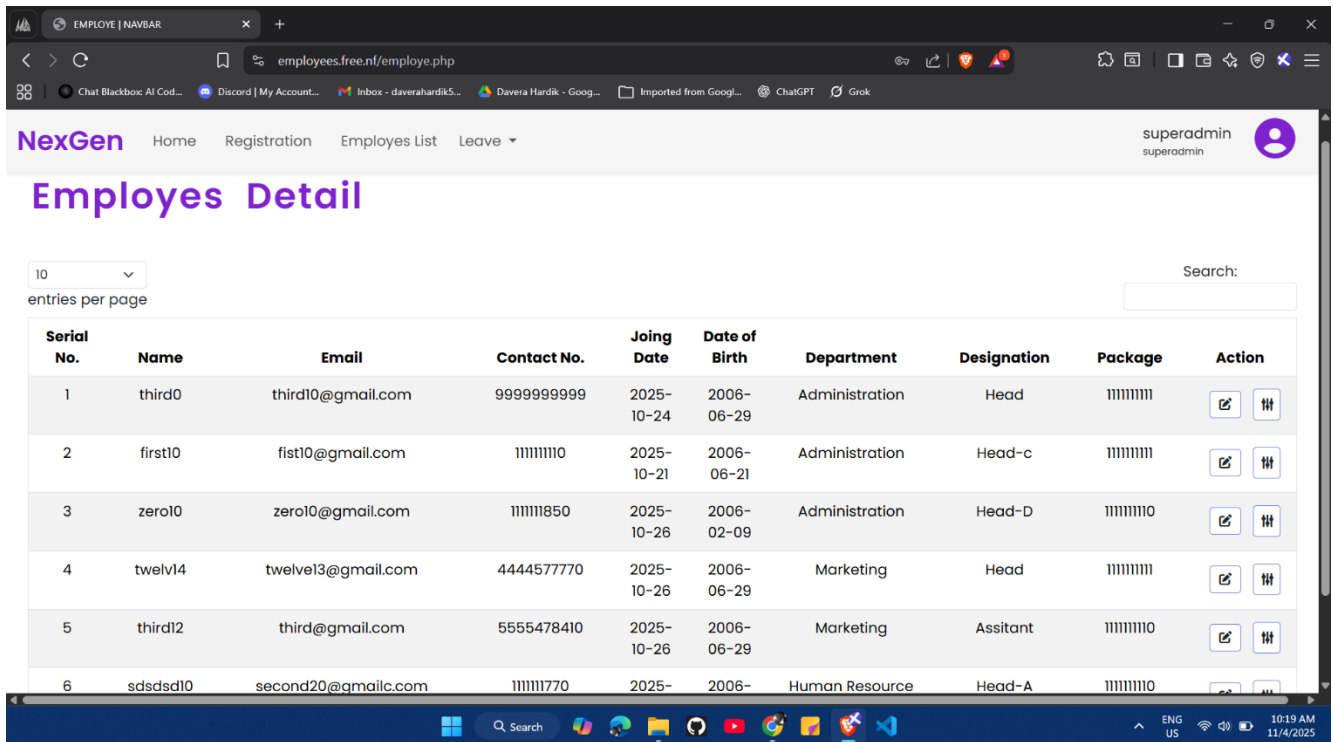
- Employee Name :
- Employee Contact No. :
- Employee Email :
- Enter Password :
- Enter Joining Date :
- Enter Date of Birth :
- Entre Department :
- Entre Designation :
- Enter Package :

The Windows taskbar at the bottom shows the time as 10:19 AM on 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.

Employee management system

➤ Employees & Admins Listing Screen:



The screenshot shows a web application interface for 'NexGen'. The top navigation bar includes 'Home', 'Registration', 'Employees List', and 'Leave'. The user is logged in as 'superadmin'. The main heading is 'Employees Detail'. Below this, there is a dropdown for 'entries per page' set to '10' and a search bar. The main content is a table with the following columns: Serial No., Name, Email, Contact No., Joining Date, Date of Birth, Department, Designation, Package, and Action. The table contains 6 rows of data.

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	111111111	 
2	first10	fist10@gmail.com	111111110	2025-10-21	2006-06-21	Administration	Head-c	111111111	 
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	111111111	 
5	third12	third@gmail.com	5555478410	2025-10-26	2006-06-29	Marketing	Assitant	111111110	 
6	sdsdsd10	second20@gmail.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.

Employee management system

➤ Employees & Admins Edit Screen:

The screenshot shows a web application interface for an employee management system. A modal titled "Employee Information" is open, displaying a form for editing employee details. The form includes fields for Employee Name, Employee Email, Employee Contact No., Joining date, Date of Birth, Department, Designation, and Package. The "Edit" button is highlighted in red. In the background, a table lists employees with columns for Serial No., Name, Email, Designation, Package, and Action.

Serial No.	Name	Email	Designation	Package	Action
1	third0	third10@gmail.com	Head	111111111	[Edit] [Delete]
2	first10	fist10@gmail.com	Head-c	111111111	[Edit] [Delete]
3	zero10	zero10@gmail.com	Head-D	111111110	[Edit] [Delete]
4	twelv14	twelve13@gmail.com	Head	111111111	[Edit] [Delete]
5	third12	third@gmail.com	Assitant	111111110	[Edit] [Delete]

- ➔ 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.

Employee management system

➤ Apply Leave Form Screen:

The screenshot shows a web browser window with the URL `employees.free.nf/applyLeave.php?apply=true`. The page features a navigation bar with the 'NexGen' logo and links for Home, Registration, Employees List, and Leave. A user profile for 'superadmin' is visible in the top right. The main content area displays a 'Leave Form' with the following fields:

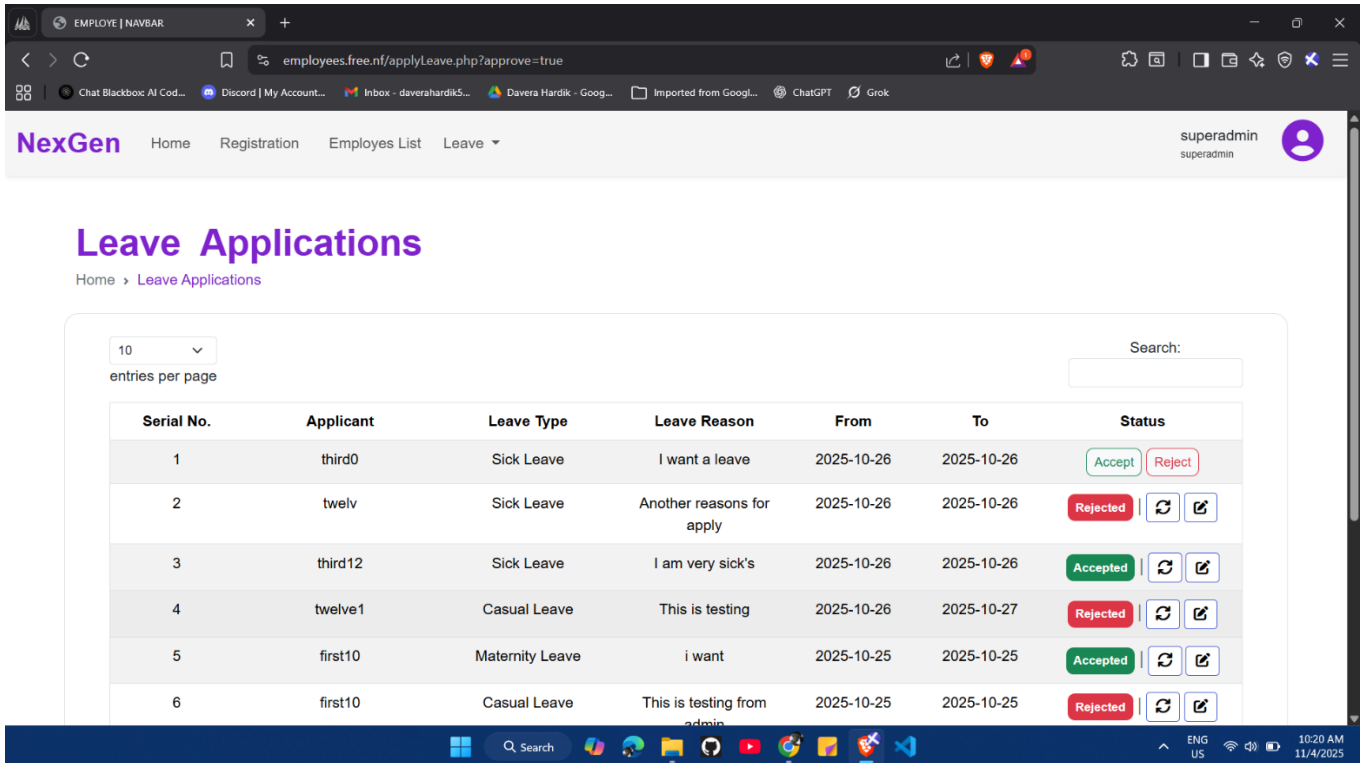
- Leave Type:** A dropdown menu with the placeholder text 'Select Leave Type'.
- Leave Reason:** A text input field with the placeholder text 'Enter reason for leave'.
- From Date:** A date input field with the placeholder text 'mm/dd/yyyy' and a calendar icon.
- To Date:** A date input field with the placeholder text 'mm/dd/yyyy' and a calendar icon.
- Apply Leave:** A button at the bottom of the form.

The Windows taskbar at the bottom shows the system time as 10:19 AM on 11/4/2025.

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

Employee management system

➤ Leave Applications Screen:



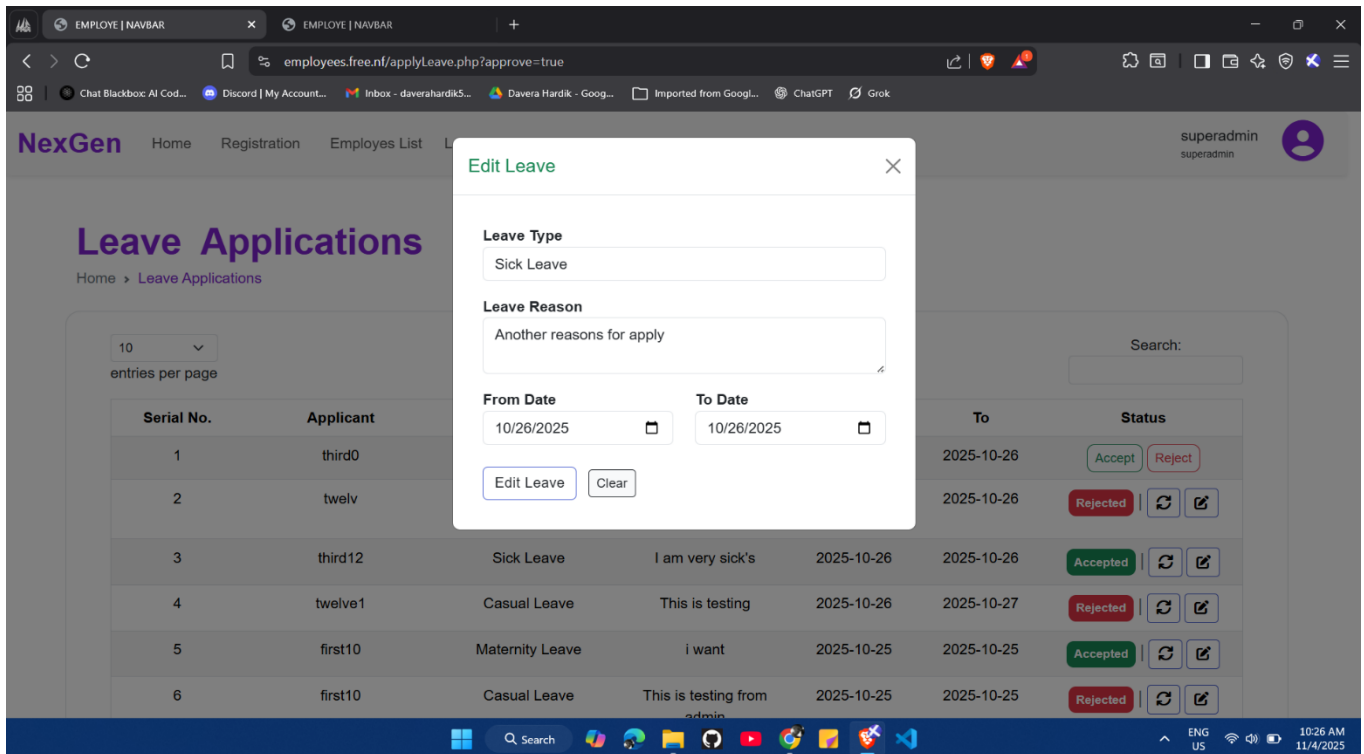
The screenshot displays the 'Leave Applications' screen in the NexGen system. The page header includes the NexGen logo, navigation links (Home, Registration, Employees List, Leave), and a user profile for 'superadmin'. The main content area features a table of leave applications with the following data:

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

- ➔ 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.

Employee management system

➤ Leave Applications Edit Screen:



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

Employee management system

➤ Leave Status Screen:

The screenshot shows a web browser window with the URL `employees.free.nf/applyLeave.php?leaveStatus=true`. The page title is "Leave Status" and the breadcrumb is "Home > Leave Status". The user is logged in as "superadmin".

At the top, there is a navigation bar with the "NexGen" logo and links for Home, Registration, Employees List, and Leave. The user profile "superadmin" is shown in the top right corner.

The main content area displays a table of leave applications. The table has columns: Serial No., Applicant, Leave Type, Leave Reason, From, To, Status, and Actions. There is one entry with Serial No. 1, Applicant superadmin, Leave Type Casual Leave, Leave Reason THIs is my leave, From 2025-10-25, To 2025-10-26, and Status Pending!.

Below the table, it says "Showing 1 to 1 of 1 entry". There are pagination controls showing "1" of 1 page.

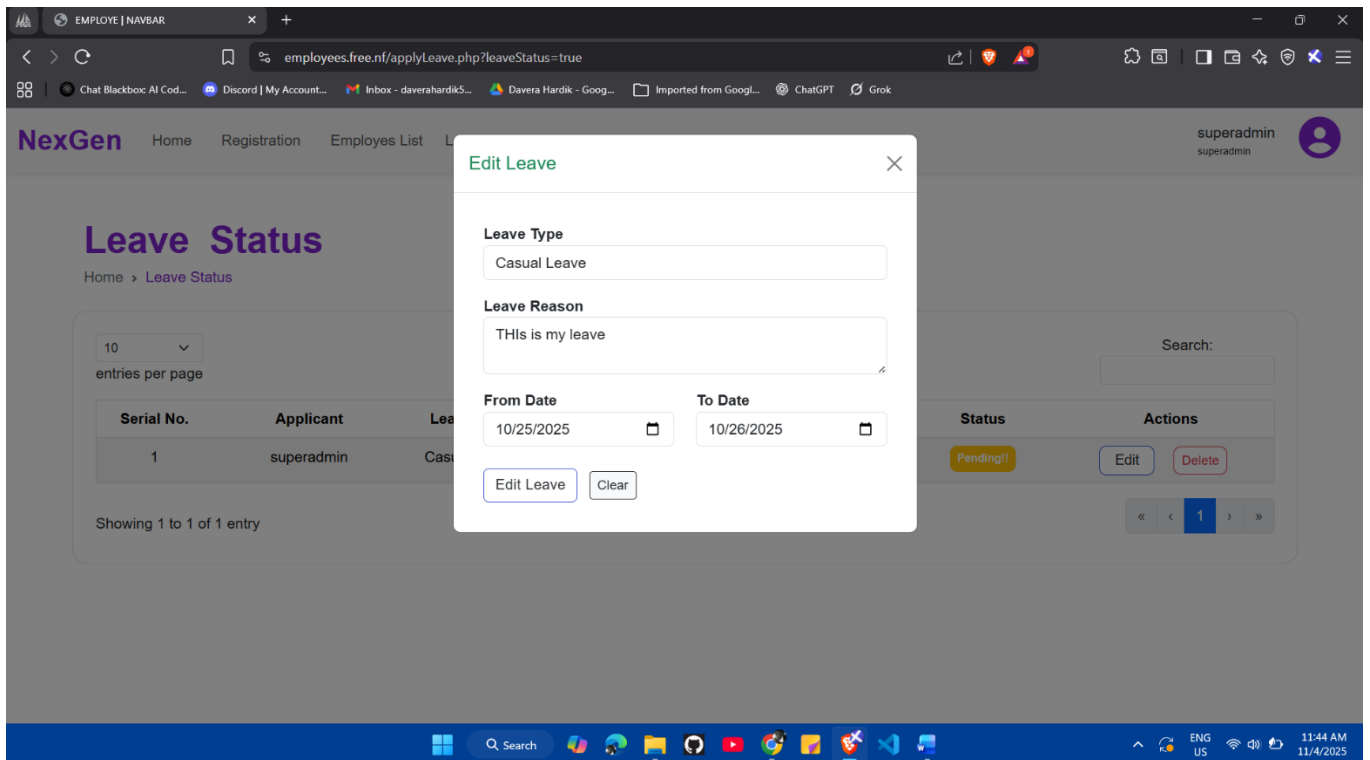
At the bottom of the browser window, the Windows taskbar is visible with the date and time "10:20 AM 11/4/2025".

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

Employee management system

➤ Leave Status Edit Screen:



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

Employee management system

➤ Contact Us Screen:

The screenshot displays the 'Contact Us' interface of the NexGen Employee Management System. The page is viewed in a web browser with the URL 'employees.free.nf/contactUs.php'. The header includes the 'NexGen' logo and navigation links: Home, Registration, Employees List, Leave, and Contact Us. A user profile 'first10 Head-c' is visible in the top right. The main heading reads 'FEEL FREE TO CONTACT US |'. Below this is a form titled 'Details' with three input fields: 'Enter Name', 'Enter E-mail', and 'Contact no.'. A 'SEND IT' button is positioned at the bottom of the form. The Windows taskbar at the bottom shows the system time as 10:23 AM on 11/4/2025.

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

REFERENCE AND BIBLIOGRAPHY

➤ **Websites: -**

- <http://www.apachefreinds.org>
- <http://www.phpnet>
- <http://www.mysql.com>

➤ **Search engines: -**

- Google search engines
- Mozilla firefox
- Google chrome

➤ **Reference engines: -**

- www.google.com
- www.w3schools.com
- www.en.wikipedia.com