Employee management system

A PROJECT ABSTRACT 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

PREPARED BY :

Davera Hardik

ACKNOWLEDGEMENT

While the abstract 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 abstract it is my duty to offer my sincere thanks to those who have assisted me in preparing this project abstract 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 create 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
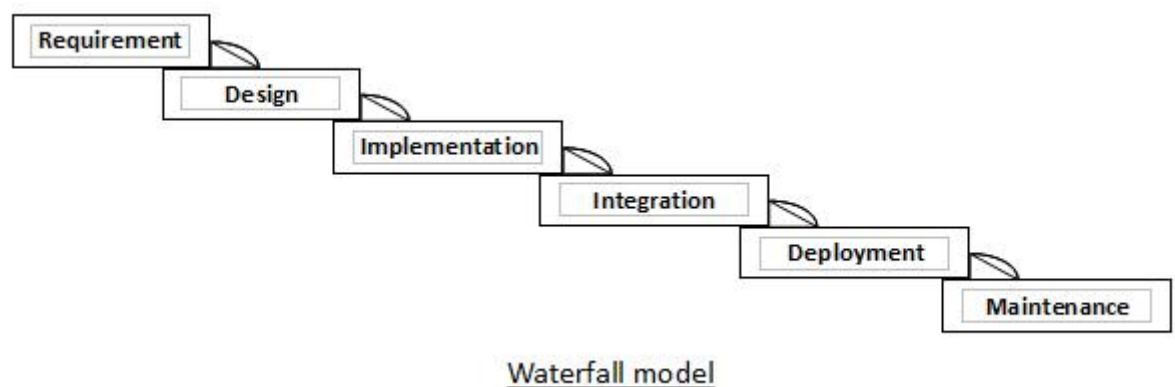
Waterfall model

➢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

<u>Employee management system</u>

<u>PROJECT INFORMATION</u>

In the daily Employee Management System we can use PHP and MYSQL server Database. This is the project which can be used for Manage employees 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 their feedbacks

SYSTEM REQUIREMENTS

 Hardware Requirements:

Processor	Intel(R) Core (TM)i5-835OU 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:-
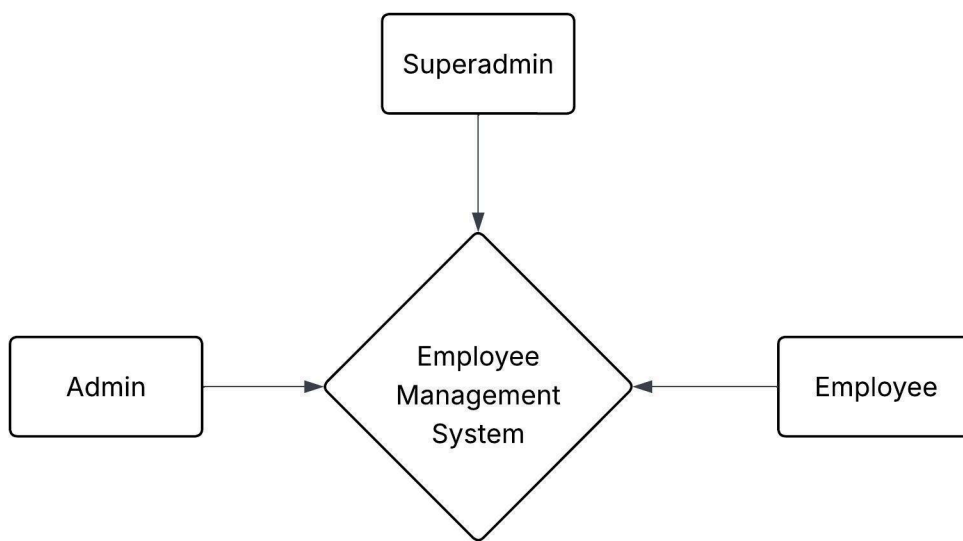
Employee management system

☐ ONE LEVEL DFD:
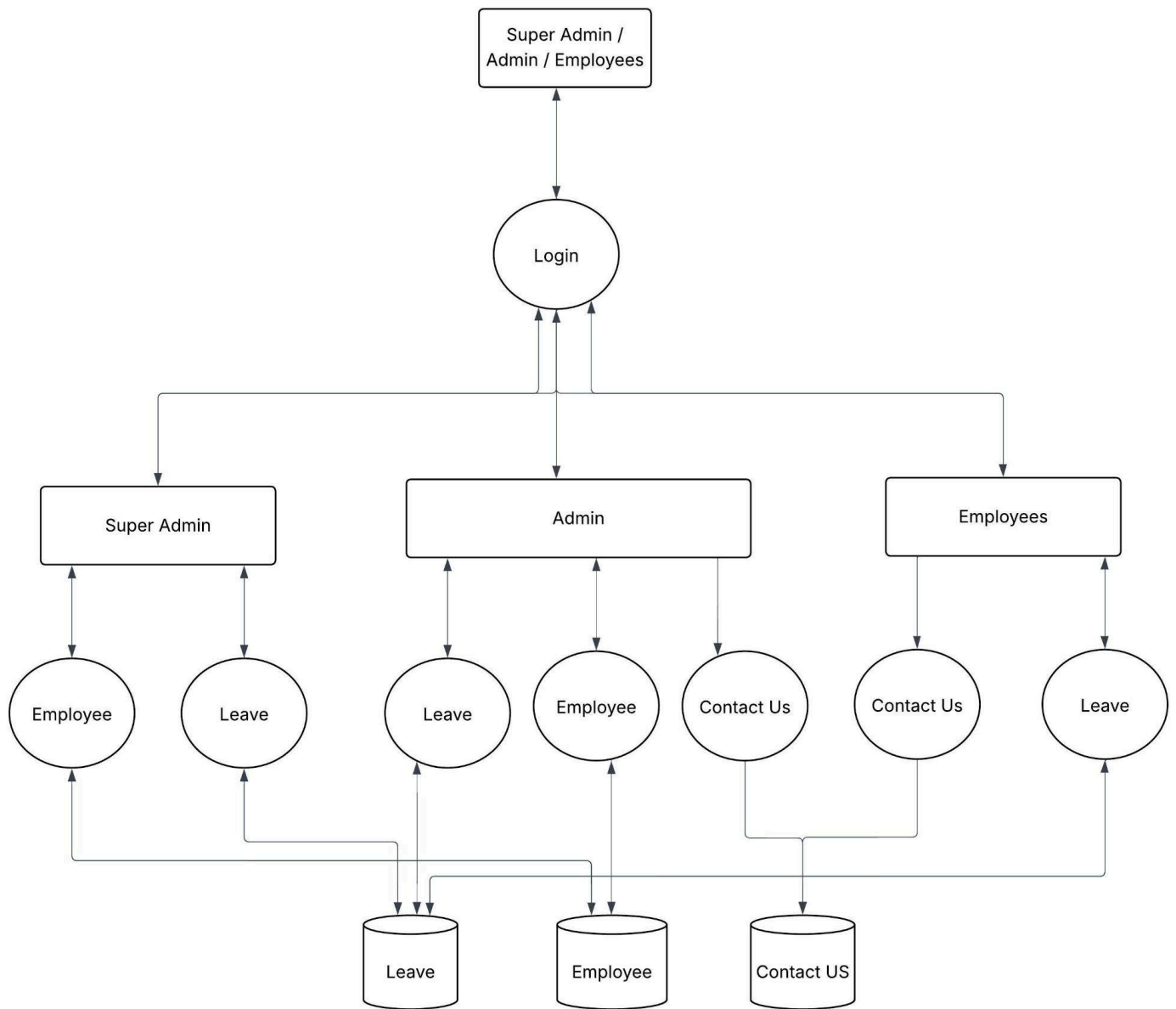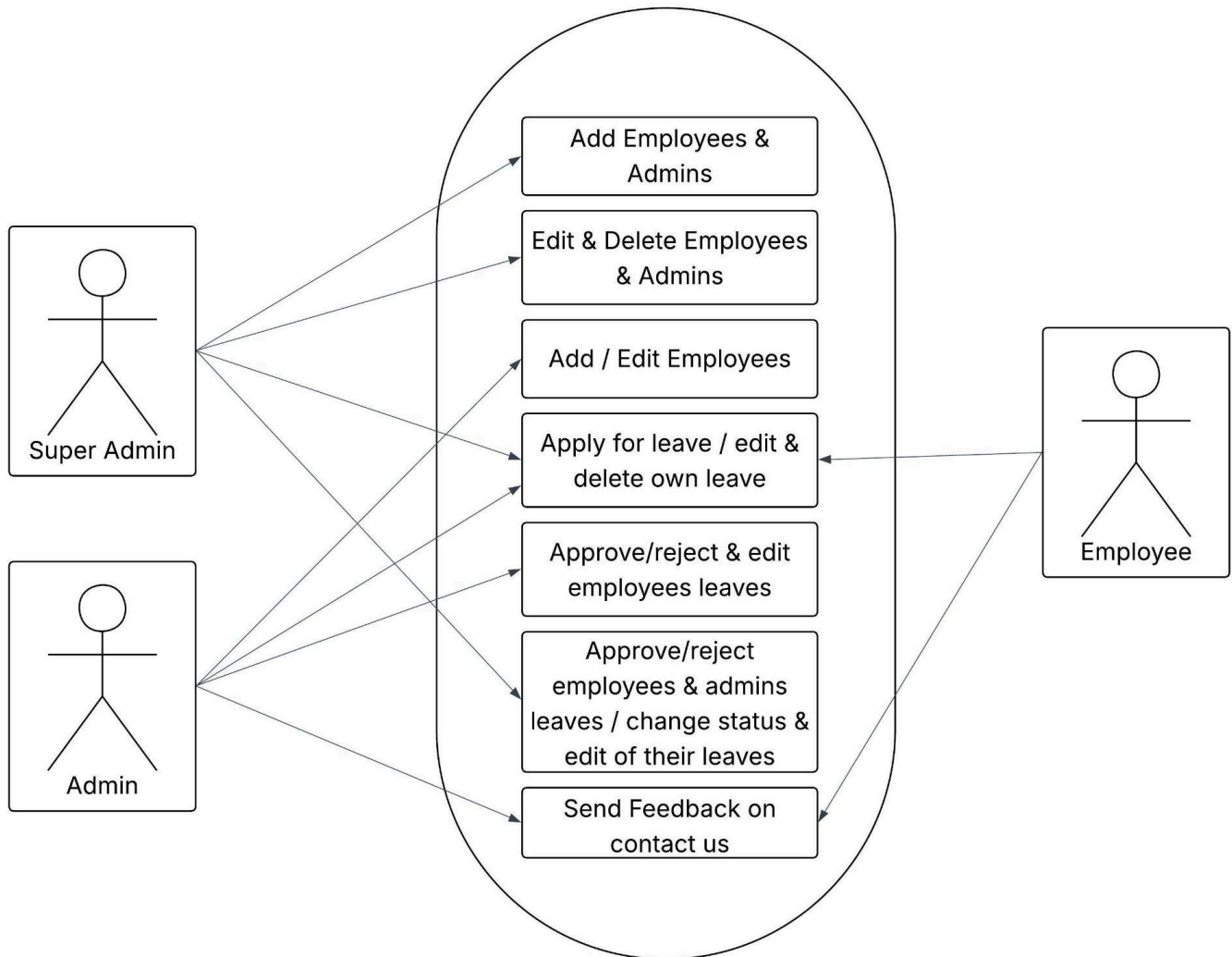
USE CASE DIAGRAM

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

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 : 12345678 90	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
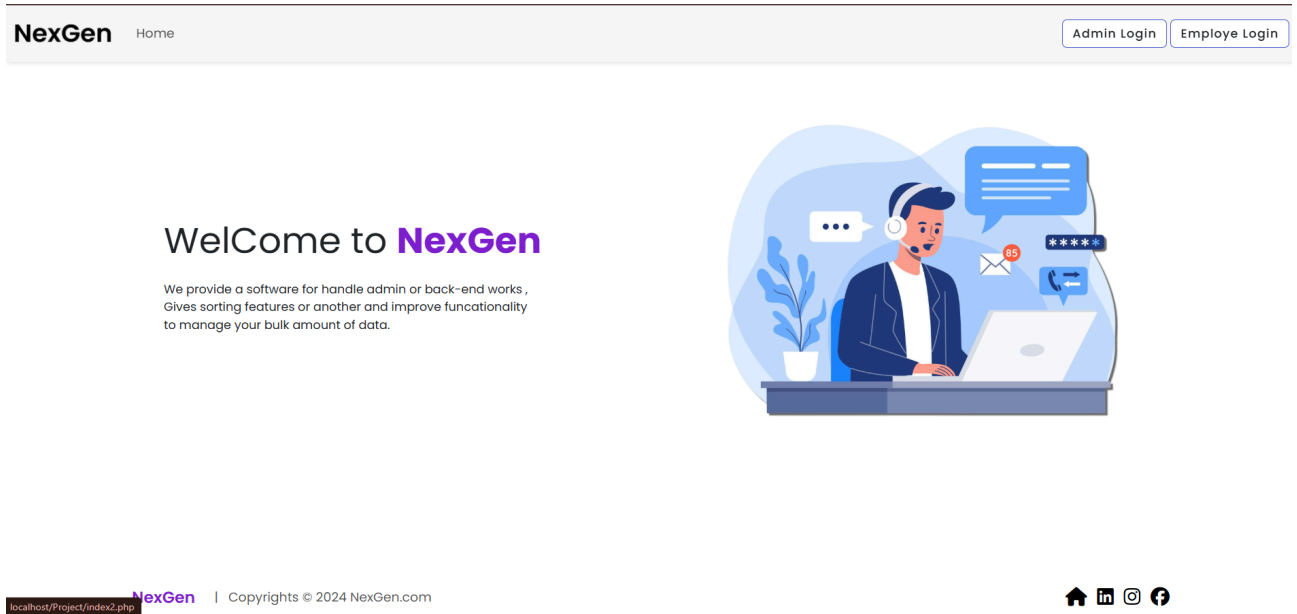
TC005	Leave / Superadmin	Edit Leave	Leave will not be accepted or rejected	Leave type, Leave Reason, From date and To date	Success Message: Leave Updated successfully	Pass
TC006	Leave / superadmin / admin / Employee	Edit & Delete Leave	Leave status will be pending	Edit : Leave Type, Leave reason, from date, To date	Success Message : Edit -> Leave Application Updated successfully, Delete -> Leave application deleted successfully	Pass

SNAP SHOTS

➢Home Screen :

NexGen   Home   Admin Login | Employe Login

WelCome to **NexGen**

We provide a software for handle admin or back-end works ,
Gives sorting features or another and improve funcationality
to manage your bulk amount of data.

localhost/Project/index2.php

NexGen | Copyrights © 2024 NexGen.com

➢Admin Login Screen :

SIGN IN

Admin Name

Password

SIGN IN

Go to Home Page.

Employee management system

➢Employee Login Screen :

➢After Login Home Screen :

Employee management system

➢Employee & Admin Register Screen :

NexGen   Home   Registration   Employes List   Leave ▾

superadmin
superadmin

Employe Registration

Employe Name :

Enter Employe Name...

Employe Contact No. :

Enter Employe Contact No...

Employe Email :

Enter Employe Email...

Enter Password :

Enter Password...

Enter Joing Date :

mm/dd/yyyy

Enter Date of Birth :

mm/dd/yyyy

Entre Department :

Marketing

Entre Designation :

Enter Designation...

Enter Package :

Enter Package...

Add Employee   Clear

➢Employees & Admins Listing Screen :

NexGen   Home   Registration   Employes List   Leave ▾

superadmin
superadmin

Employes Detail

10 ▾
entries per page

Search:

Serial No.	Name	Email	Contact No.	Joing Date	Date of Birth	Department	Designation	Package	Action
1	second	second@gmail.com	111111112	2025-01-01	2006-01-01	Administration	HeadAdmin	111111111	
2	Khusal10	khusal1@gmail.com	1111111021	2025-01-01	2006-01-01	Administration	headadmin	1111111110	
3	sdsdsd	third2@gmail.com	1111111110	2002-11-11	2006-02-22	Sales	head	1000000000	
4	first	first@gmail.com	111111113	2024-01-01	2005-01-01	Marketing	Head	111111111	
5	seventh	seventh@gmail.com	1155555511	2025-08-01	2006-01-02	Sales	Head	111111111	
6	ten	ten@gmail.com	1110141111	2025-08-19	2006-08-29	Sales	Head	1111111110	
7	first45	first45@gmail.com	4444448888	2025-08-21	2005-08-21	Sales	Head	100000	

Employee management system

➢Employees & Admins Edit Screen :

➢Apply Leave Form Screen :

Employee management system

➢Leave Applications Screen :

NexGen Home Registration Employes List Leave ▾ superadmin superadmin 👤

Leave Applications
Home ▸ Leave Applications

10 ⌄						
entries per page					Search:	

Serial No.	Applicant	Leave Type	Leave Reason	From	To	Status
1	seventh	Sick Leave	4bjn	2025-09-14	2025-09-18	Accept Reject
2	seventh	Earned Leave	asfhsg	2025-08-31	2025-08-31	Accepted ⟳
3	seventh	Casual Leave	nsmbfhj	2025-08-30	2025-08-31	Rejected ⟳
4	ten0	Sick Leave	smdfbhj124	2025-08-25	2025-08-26	Accepted ⟳
5	second	Sick Leave	sdv	2025-08-25	2025-08-26	Accept Reject
6	seventh	Casual Leave	mnbajf	2025-08-24	2025-08-25	Rejected ⟳
7	khusal10	Sick Leave	jgduygw	2025-08-25	2025-08-26	Rejected ⟳
8	ten	Earned Leave	want a leave	2025-08-25	2025-08-26	Accepted ⟳

➢Leave Status Screen :

NexGen Home Registration Employes List Leave ▾ superadmin superadmin 👤

Leave Status
Home ▸ Leave Status

10 ⌄							
entries per page						Search:	

Serial No.	Applicant	Leave Type	Leave Reason	From	To	Status	Actions
1	superadmin	Casual Leave	wkjhf	2025-08-25	2025-08-26	Pending!!	Edit Delete
2	superadmin	Sick Leave	msbfj1245	2025-08-26	2025-08-26	Pending!!	Edit Delete

Showing 1 to 2 of 2 entries

« ‹ 1 › »

➢Contact Us Screen :

| NexGen | Home | Registration | Employes List | Leave ▾ | Contact Us | | second HeadAdmin |

FEEL FREE TO CONTACT US |

Details

Enter Name

Enter E-mail

Contact no.

SEND iT

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