# Streamlining Employee Benefits: Automating Pension Form Filling and Leave Management with an Application

Sharanam Chotai 88 (MG21040)

Guided by: Dr. Dipti B Shah

Mentor: Mr. Zeelani Shaik

Expert: Mr. Atul Patel

# Project...

# For Sardar Patel University

- Pension Form Filler
- Developed under the guidance of *Dr. Dipti* Shah
- Constantly supported by *Mr. Atul Patel*

# For Investis Digital

- Leave Management Application
- Developed under the guidance of *Mr. Zeelani* Shaik

# November to February

- Started working on the project during free time
- Turned out to be a <u>partial submission</u> for the final semester.

# February to Present and After

- Joined the company on February 1st.
- The position is a <u>stipend-based internship</u> followed by a job offer.

# Pension Form Filler

# Version 1.1

- Fundamental *User Interface*
- Printable Sections
- Navigation panel for multiple records
- Along with the user manual

# Version 2.0

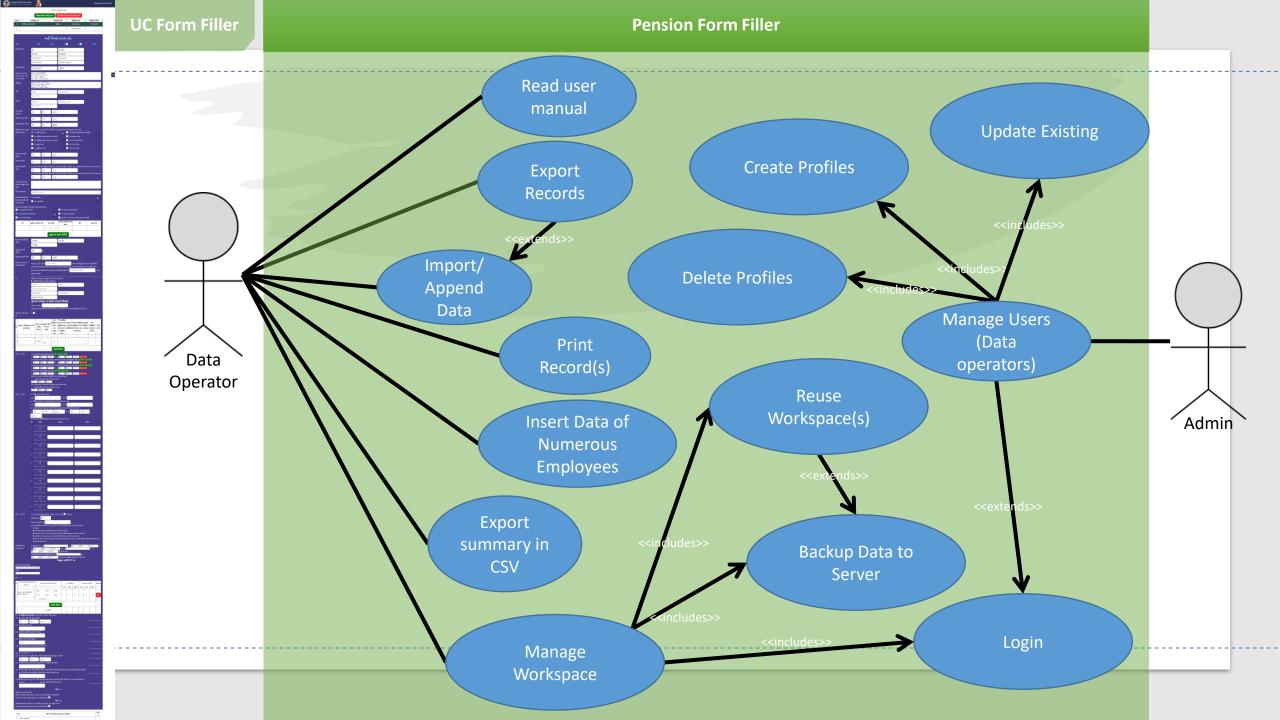
- Secure & Controlled Environment
- Feature of Workspaces
- Admin panel & Authorization

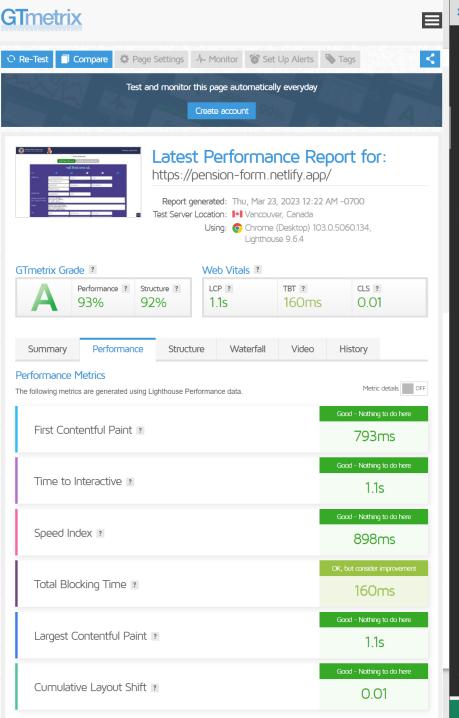
# Beta Version

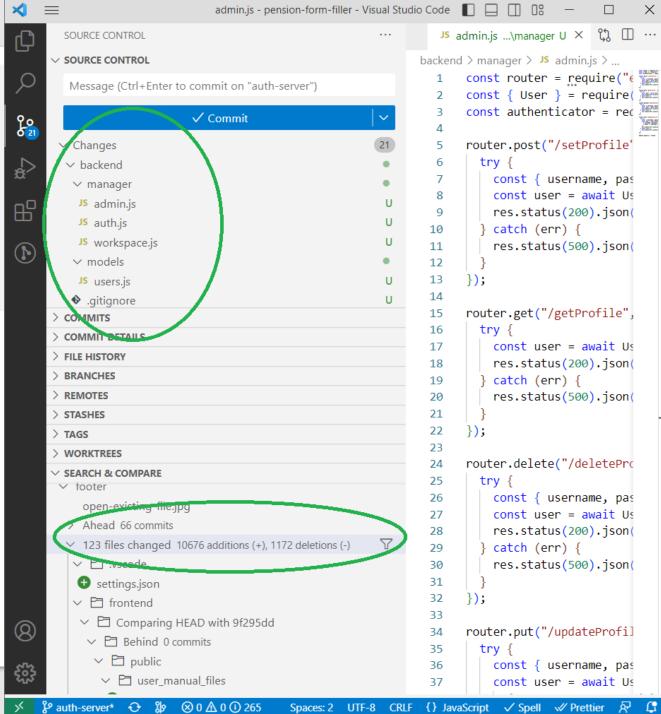
- Frontend only, based on Svelte.JS
- Deployable on any HFS
- <u>160+</u> unique input fields
- <u>9500+</u> lines of code

# Under construction

- Is being built using Node.JS
- To be more generic and adaptable







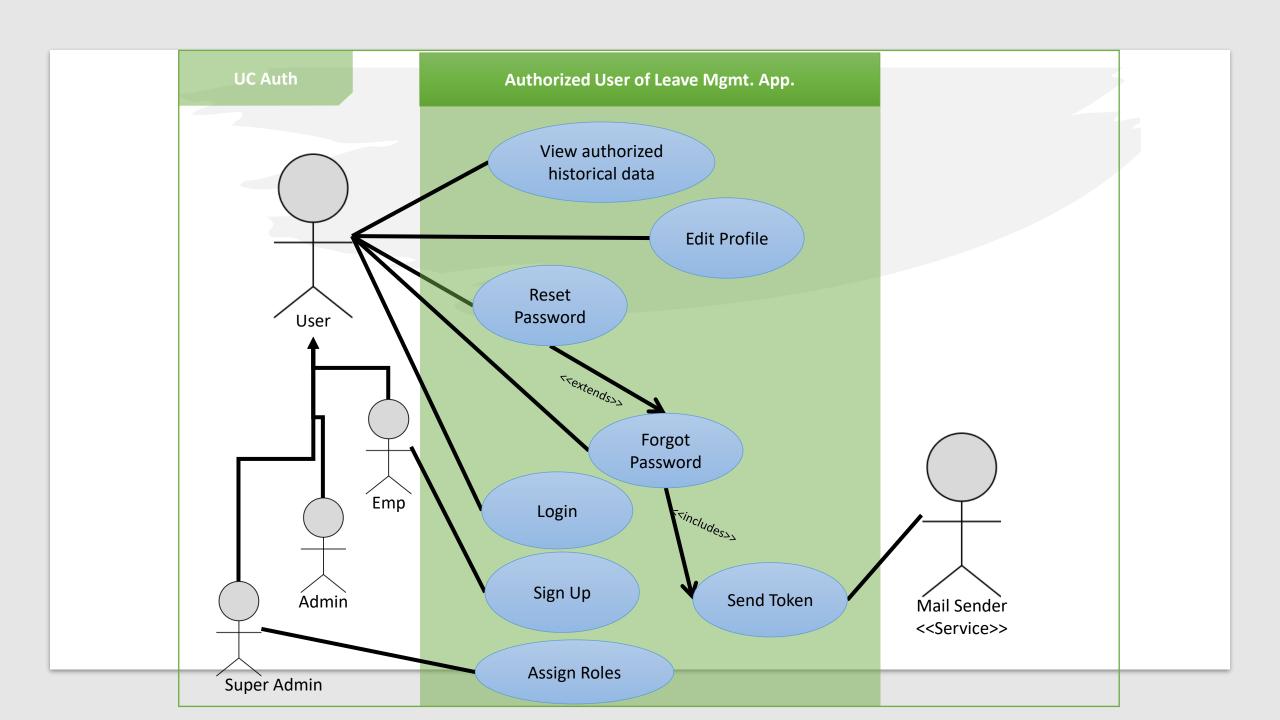
# About Investis Digital

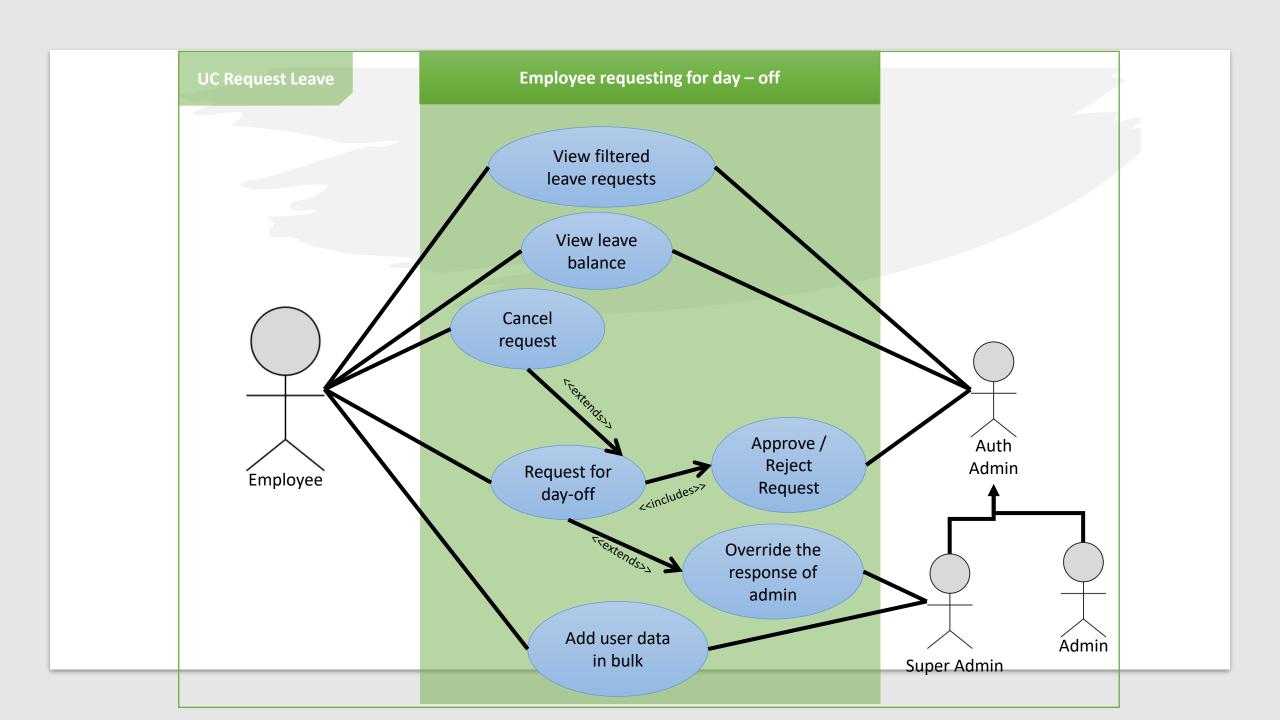
- It drives business performance with a mix of expertise, technology, and service
- Delivers <u>end-to-end communication solutions</u>
- <u>Two decades</u> of experience in corporate digital communications
- Has built relationships with more than 1,600 global companies
- <u>Connect.ID technology</u> ensures cloud scale, modular design, better analytics, and enterprise-grade security for amazing digital experiences
- Connected Content™ approach is used to deliver measurable results

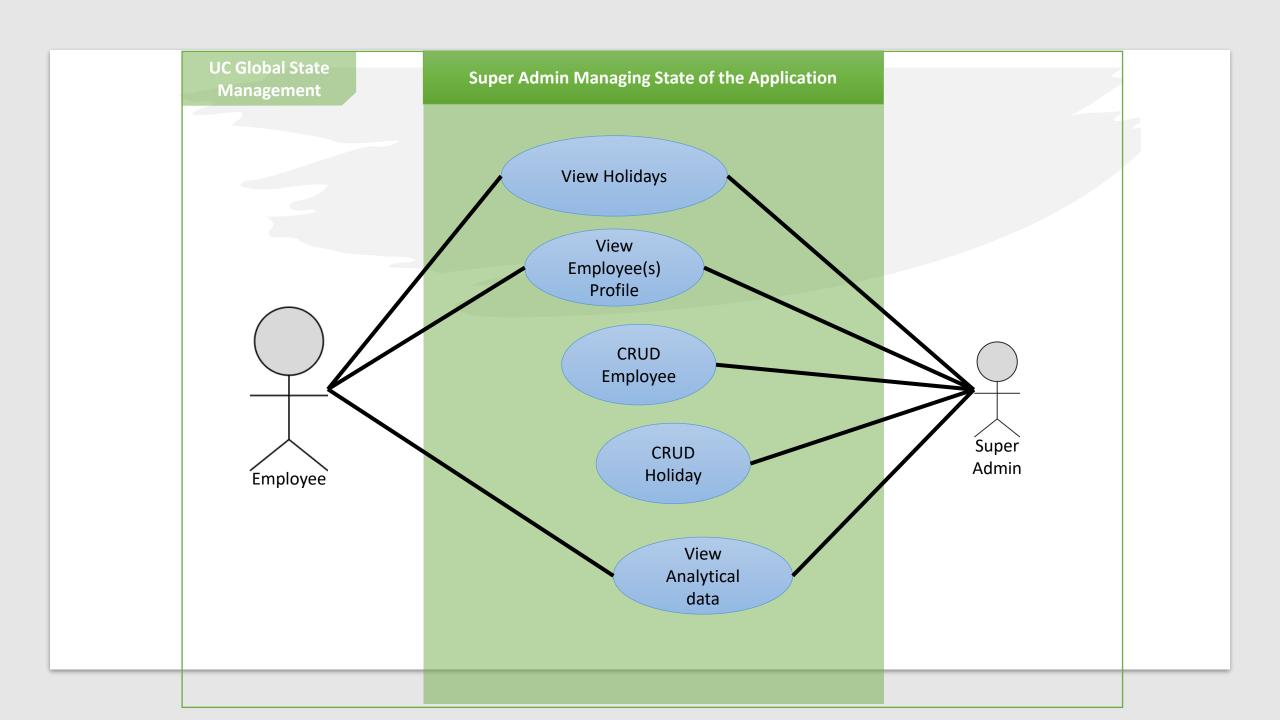
# 'Why' and 'How' about this project

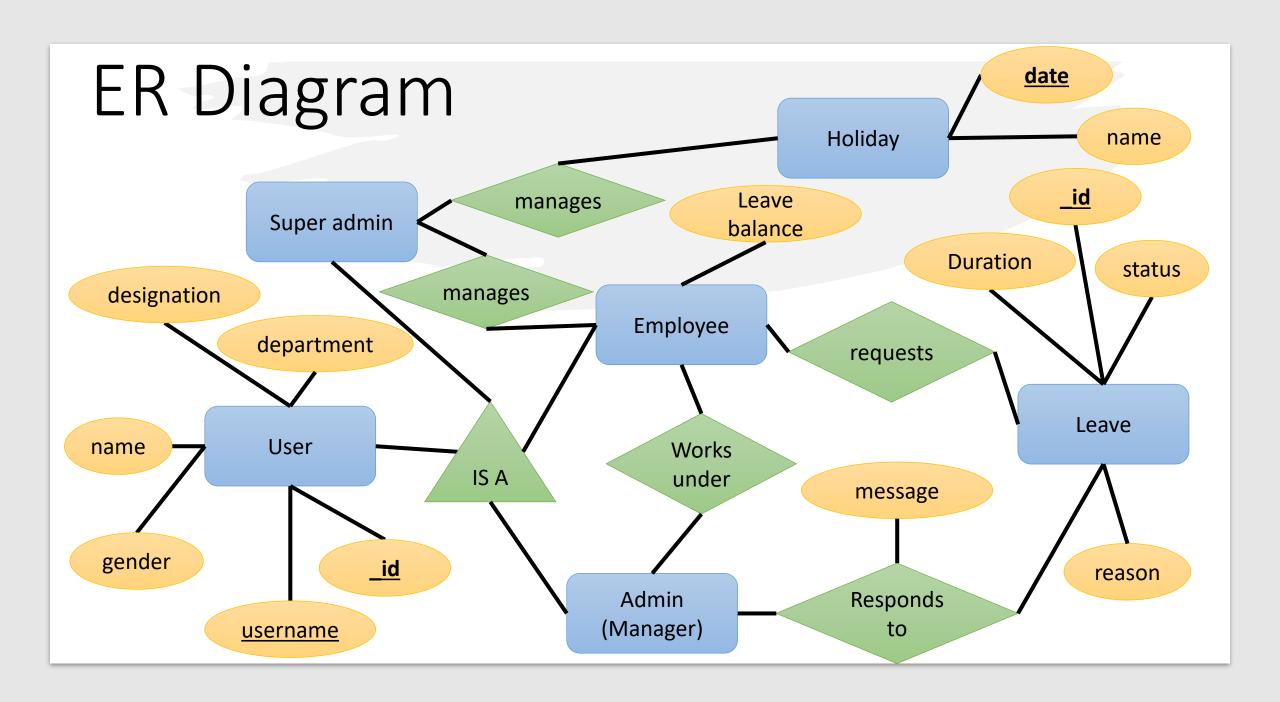
- Company is <u>already using 3<sup>rd</sup> party</u> <u>application</u> to do these tasks
- But now this is to provide us an opportunity to get our hands into the technology using the best industrial practices and for company to have an internal system to continue these tasks in custom manner
- Also, to make it available to their clients

- ❖ MERN Tech Stack is being used to construct this project which combines Mongo DB, Express.js, Node.js and React.js.
- ❖ We are also using tailwind CSS
- ❖Three trainee engineers are working on the same domain but in parallel to each other with different approaches in their mind, hence the <u>team size is '1'</u>.









## **Data Dictionary for 'Holidays' Collection**

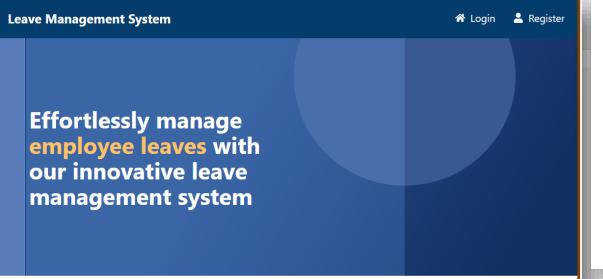
Field Name	Data Type	pe Validation I		Required	Unique	Default	Description
_id	ObjectId	-	-	Yes	Yes	-	Unique identifier of holiday
name	String	Required, Trim	-	Yes	No	-	Name of holiday
date	Date	Required, Unique	-	Yes	Yes	-	Date of holiday
noOfDays	Number	Required, Min: 1	-	Yes	No	-	Number of days for the holiday
isOptional	Boolean	Default: False	-	No	No	FALSE	Indicates if the holiday is optional or not

# **Data Dictionary for 'Leaves' Collection**

Field Name	Data Type	Validation	Reference	Required	Unique	Default	Description
_id	ObjectId	-	-	Yes	Yes	-	Unique identifier of leave
empId	ObjectId	Reference: "User"	User	Yes	No	-	Employee ID associated with the leave
leaveType	String	Required, Trim, Enum: [typeOfLeaves]	-	Yes	No	-	Type of leave
from	Date	Required		Yes	No	-	Start date of leave
to	Date	Required	-	Yes	No	-	End date of leave
note	String	Required, Trim	-	Yes	No	-	Note about the leave
workingDays	Number	Required	-	Yes	No	-	Number of working days for the leave
status	String	Enum: ["P", "A", "R", "C"], Default: "P"	-	No	No	P	Status of the leave request: "P" for Pending, "A" for Approved, "R" for Rejected, and "C" for Cancelled
isHalfDay	Boolean	Default: False	-	No	No	FALSE	Indicates if the leave is for half day or not
halfDayType	String	Enum: ["F", "S"]	-	No	No	-	If the leave is for half day, specifies which half of the day: "F" for First half and "S" for Second half
managerComment	String	Trim, Default: ""	-	No	No	""	Manager's comment on the leave

# **Data Dictionary for 'Users' Collection**

Field Name	Data Type	Validation	Reference	Required	Unique	Default	Description
username	String	minlength: 3		TRUE	TRUE		Username of the user. It must be unique and have at least 3 characters.
password	String	minlength: 10		TRUE			Password of the user. It must have at least 10 characters.
firstName	String	minlength: 2		TRUE			First name of the user. It must have at least 2 characters.
lastName	String	minlength: 2		TRUE			Last name of the user. It must have at least 2 characters.
email	String	validator: isValidEmail		TRUE	TRUE		Email address of the user. It must be unique and valid.
contactNumber	String	minlength: 3		TRUE			Contact number of the user. It must have at least 3 characters.
employeeID	String	minlength: 3		TRUE	TRUE		Employee ID of the user. It must be unique and have at least 3 characters.
designation	String						Designation of the user.
department	String						Department of the user.
managerId	ObjectId	ref: "User"	User				Manager of the user. It is a reference to another user.
leaveBalance	Number	default: maxLeaveBalance				12	Leave balance of the user. It is initialized to the maximum leave balance.
role	String	enum: ["a", "s", "e"]		TRUE		"e"	Role of the user. It must be one of "a" (admin), "s" (super-admin), or "e" (employee).
gender	String	enum: ["m", "f", "o"]		TRUE		"o"	Gender of the user. It must be one of "m" (male), "f" (female), or "o" (other).
gotUpdate	Boolean	default: false				FALSE	A flag that indicates whether the user has unread notifications.



#### NoticeBoard

HolidayList

Month	Date	Day	Туре	No of Days
January	26th Jan 2023	Thursday	Republic Day	1
March	8th March 2023	Wednesday	Holi	1
April	7th April 2023	Friday	Good Friday	1
April	21st April 2023	Friday	Eid al-Fitr	1(Optional)

#### **Forgot Password**



Want to get the recovery link?

Username / Email Id / Employee Id \*

**Get an Email** 

Wait, I remember my password now!

Email sent to super@adm.in successful Subject: Request for password reset

Message: Click on the link below to r

<a style="color: #fff; background-color: #007bff; border-color: #007bff; padding: .375</p> ize: 1rem; line-height: 1.5; border-radius: .25rem; text-decoration: none;" href="http resetPassword?token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjY0MTAwMzJkNGU4OWZkN hdCI6MTY3OTU3MTE0NCwiZXhwIjoxNjc5NjU3NTQ0fQ.21x2rNVFgUqgthxT2GveEyD74MlGt9UcwGJ8VqR 0M d10db291ddd">Reset Password</a>

#### **Login Form**



#### Have an account?

sudo	
2	_
Password *	

Forgot Password Remember me

Get In

Don't have an account? Register

#### **Reset Password**



#### Want to reset your password?

user-id \*

Token \*

- Password

Confirm Password \*

**Reset Password** 

Wait, I remember my password now! Login

#### **Registration Form**



#### Hello!! Welcome to our website :)

Please fill in the following details to register for our Leave Management System:

#### **Personal Details:**

|--|--|--|--|

Last Name \*

Email \*

Contact Number \*

Gender: ○ Male ○ Female ○ Other

#### **Account Details:**

Username \*

Password \*

Confirm Password \*

#### **Work Details:**

Employee ID \*

Designation

Department

Manager Name / Email / Employee ID

Leave Balance

☐ By registering for our Leave Management System, you agree to abide by the company's policies and guidelines related to leave management.

#### **Get Started**

Have an account? Login

# **Leave Requests**



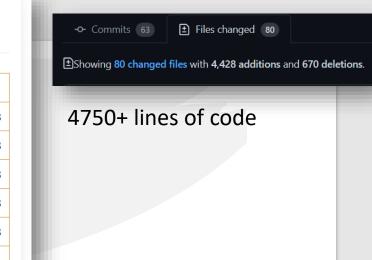
**Disclaimer:** Stats are calculated based on the current filters applied.

Employee \$	Leave Type <b>\$</b>	From \$	То \$	Working Days \$	Status <b>♦</b>	Created At ♠	Action	Manager Comment <b>♦</b>
aloo	Holiday	16 March, 2023	20 March, 2023	3	Rejected 🗶	16 March, 2023	View	run helloasdasd
aloo	Holiday	21 March, 2023	22 March, 2023	2	Cancelled 🛇	16 March, 2023	View	Deleted
aloo	Maternity Leave	24 March, 2023	27 March, 2023	2	Rejected 🗙	16 March, 2023	View	DOne
aloo	Paternity Leave	5 April, 2023	6 April, 2023	2	Rejected 🗙	16 March, 2023	View	Hello
aloo	Holiday	17 March, 2023	21 March, 2023	3	Rejected 🗙	16 March, 2023	View	
Sharanam	Covid-19 Leave	16 March, 2023	21 March, 2023	4	Rejected 🗙	17 March, 2023	View	
newgen	Holiday	15 March, 2023	23 March, 2023	7	Approved 🗸	21 March, 2023	View	Done
aloo	Holiday	28 March, 2023	28 March, 2023	1	Pending <b>U</b>	21 March, 2023	View	Will check that lateRead more

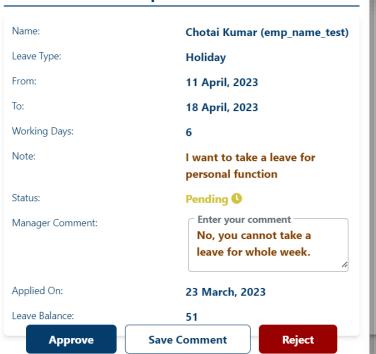
### **Chotai Kumar**

#### **Trainee Engineer**

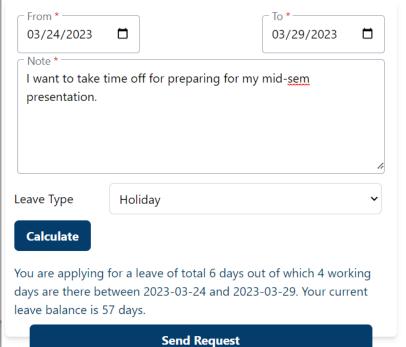
			My Leaves				
Leave Type	From	То	Note	Working Days	Status	Manager Comment	Applied On
Holiday	16 March, 2023	20 March, 2023	I wanted to give youRead more	3	Rejected	run helloasdasd	16 March, 2023
Holiday	21 March, 2023	22 March, 2023	Can't wait to come bRead more	2	Cancelled	Deleted	16 March, 2023
Maternity Leave	24 March, 2023	27 March, 2023	Test Note Text here	2	Rejected	DOne	16 March, 2023
Paternity Leave	5 April, 2023	6 April, 2023	XYZ reason	2	Rejected	Hello	16 March, 2023
Holiday	17 March, 2023	21 March, 2023	Test Note Text here	3	Rejected		16 March, 2023
Holiday	28 March, 2023	28 March, 2023	Not feeling well	1	Cancel	Will check that later.	21 March, 2023



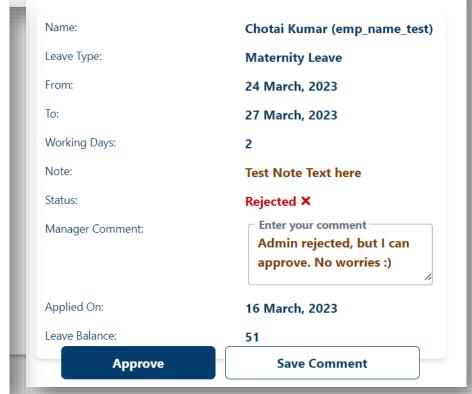
#### Leave Request from Chotai

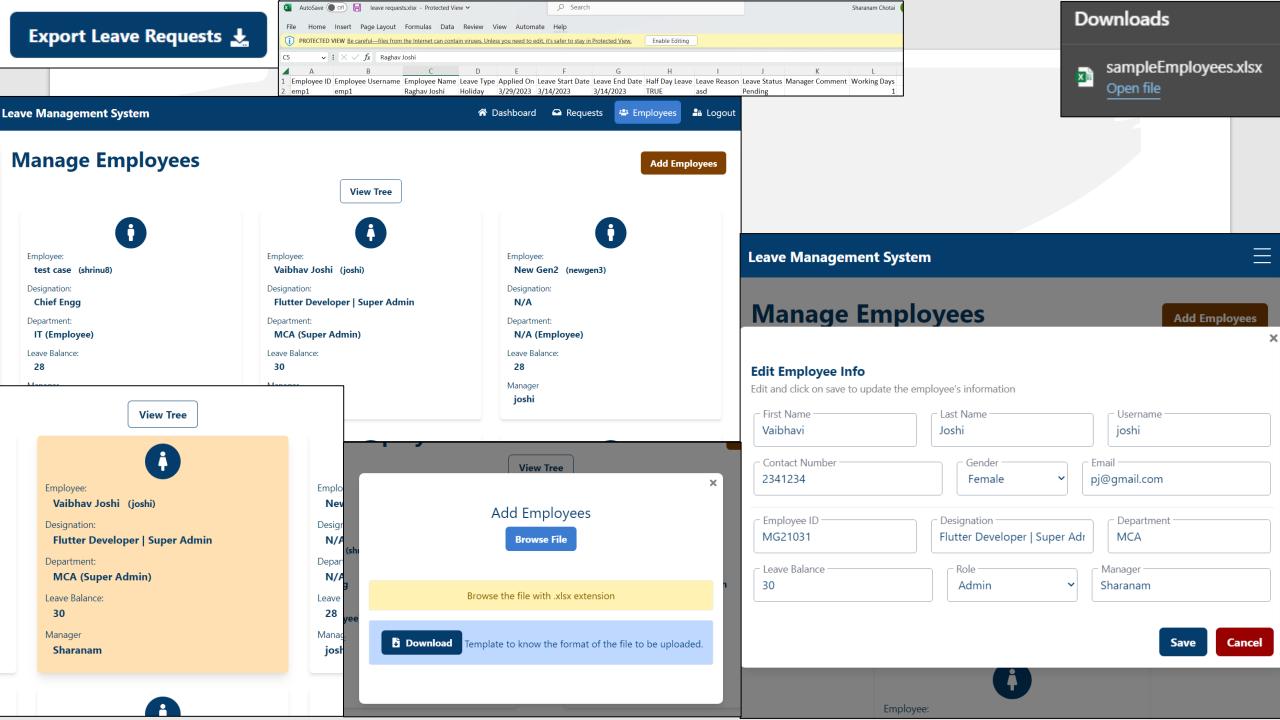


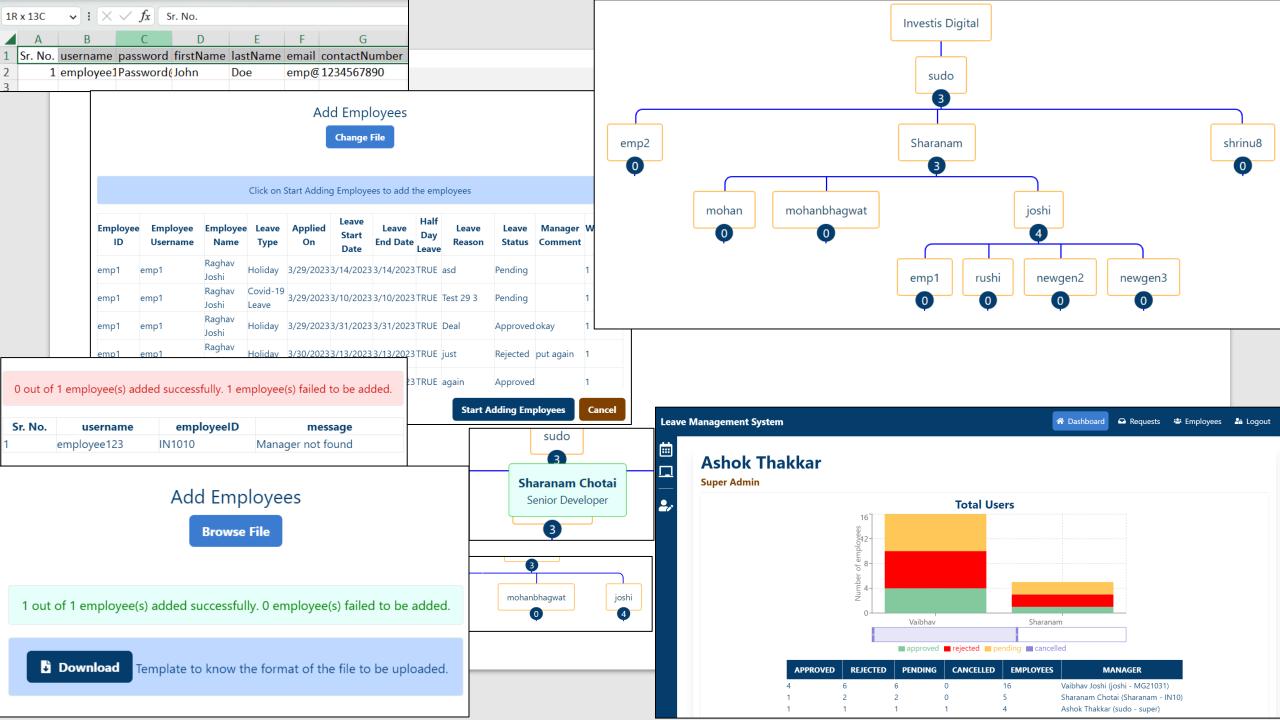
# Request Time Off



### **Leave Request from Chotai**



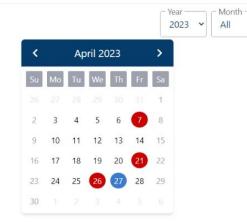






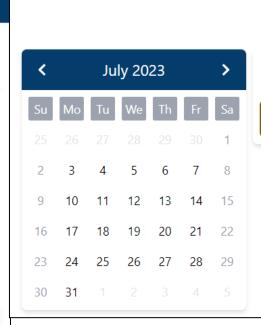
### **Manage Holidays**

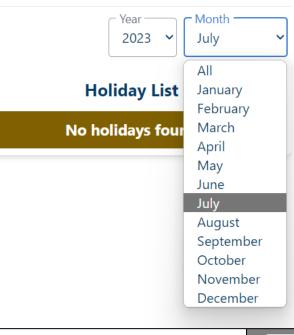
Official Holidays will be given to all employees

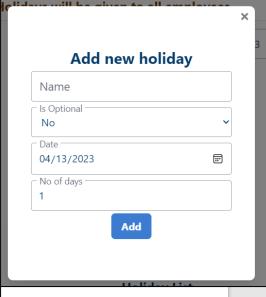


#### **Holiday List**

Date	Day	Name	No of Days
26 January, 2023	Thursday	Republic Day	1
8 March, 2023	Wednesday	Holi	1
7 April, 2023	Friday	Good Friday	1
21 April, 2023	Friday	Eid-al-Fitr	1 (Optional)
26 April, 2023	Wednesday	Deepanand	1
15 August, 2023	Tuesday	Independence Day	1
30 August, 2023	Wednesday	Rakshabandhan	1
7 September, 2023	Thursday	Janmashtami	1 (Optional)
19 September, 2023	Tuesday	Ganesh Chaturthi	1 (Optional)
24 October, 2023	Tuesday	Dussehra	1
13 November, 2023	Monday	Diwali (New Year)	1
14 November, 2023	Tuesday	Diwali (Bhai Dooj)	1
25 December, 2023	Monday	Christmas	1

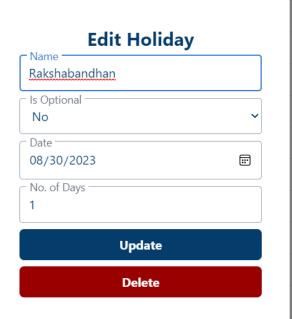


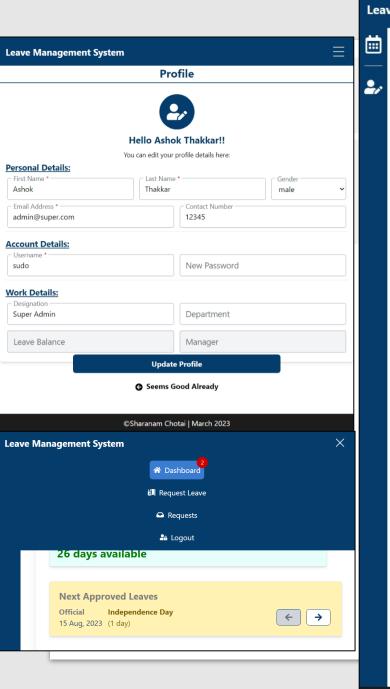




×









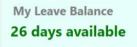




Rejected 3



**Senior Developer** 



**Next Approved Leaves** 

Rakshabandhan Official 30 Aug, 2023 (1 day)

Incoming Leave Requests from your employees: 2



#### My Leaves

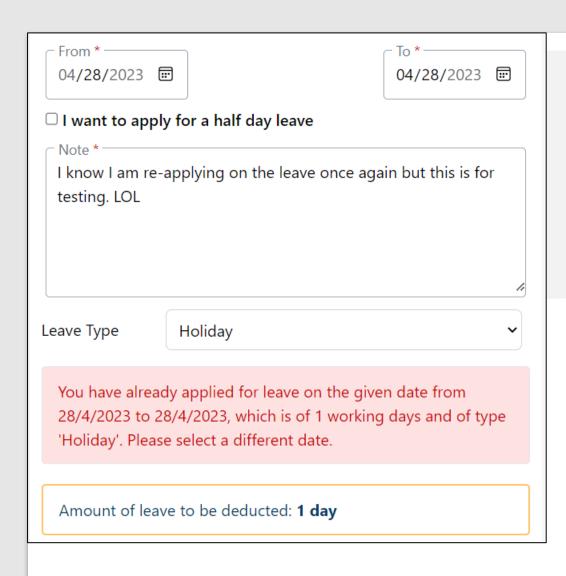
16 Mar, 2023

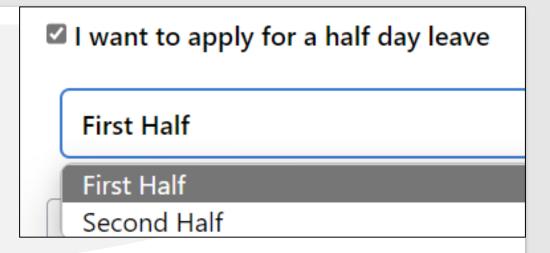
to 21 Mar, 2023

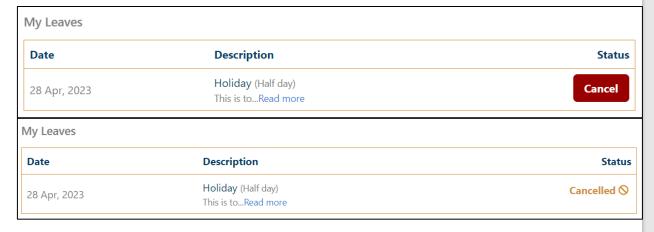
Description	Status
Holiday (2 days) Going to hRead more	Approved <b>⊘</b>
	Holiday (2 days)

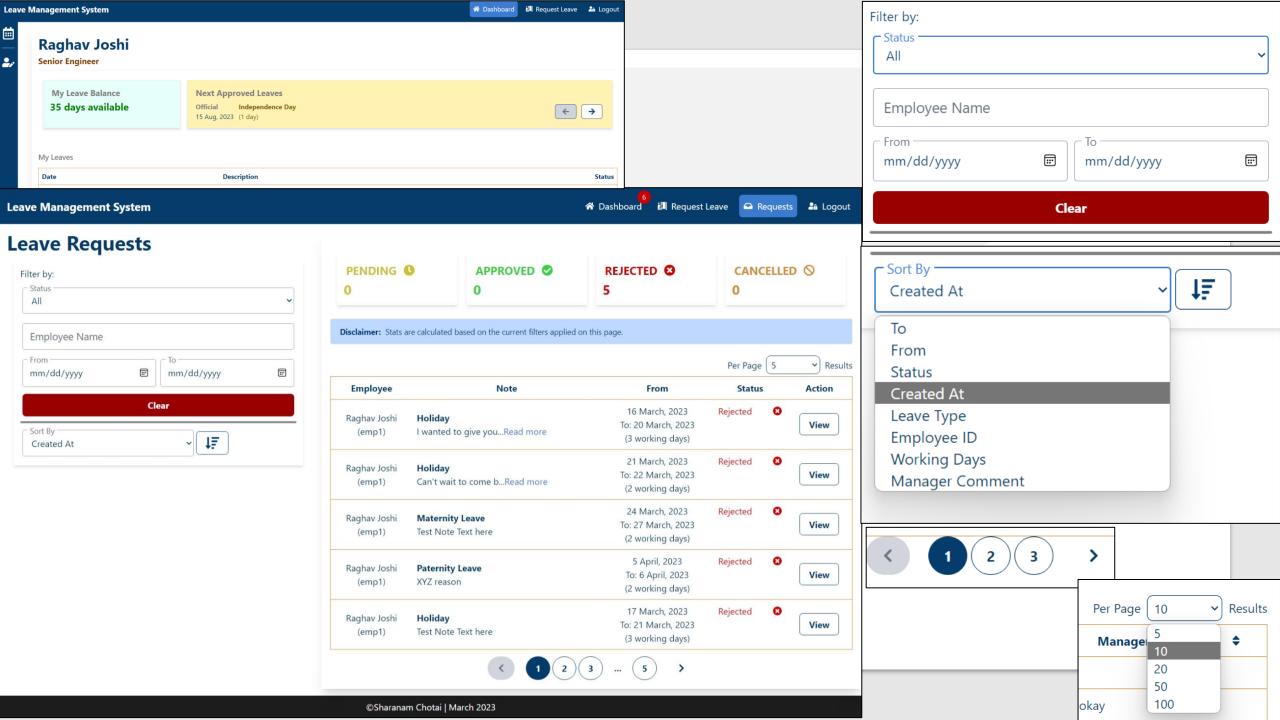
Covid-19 Leave (4 days)

ABC

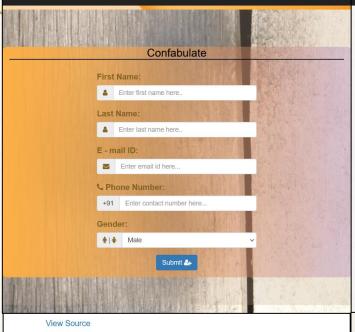












My Project

BCA-Web-App-Dev-Exercise
View Source

City-Bus-Live-Status
View Source

Educational-journey
View Source

Sharanam Chotai

# **Hotel Management**

### **Entities and Attributes**

Table Name	Columns
Staff	StaffID, Name, Address, Phone, Salary, Position
Room	RoomID, RoomType, RoomPrice, RoomStatus
Customer	CustomerID, Name, Address, Phone, Email, Passport
Booking	BookingID, CustomerID, RoomID, CheckIn, CheckOut, TotalPrice
Payment	PaymentID, BookingID, PaymentMethod, PaymentDate, Amount

Sharanam

5 commits 1,590 ++ 408 --

# Experience

#### ReactJS Intern

Sharanam Chotai

I got to work on ReactJS, for the company which was making templates for their clients. So that the actual website will not take much longer.

#### **VueJS Developer**

The project was of the admission portal for BSc Students.

#### Software Programmer

After the 3rd sem of MCA. I worked on a project for SP University

#### Trainee Engineer

In Investis Digital, My designation is Trainee Engineer.

# Apart from the project



We attended 65 hours of technical workshops



12 hours of soft-skills' sessions



Few webpages for warming up my basic web-tech skills, such as...

Personal Portfolio

**Business Profile Page** 

Landing page (as per the given design)

# What I have learnt

- Teamwork
- Various ways of communication
- Industrial protocols and formalities
- Professional ways to approach the cyber security and coding practices
- Tailwind CSS



### investisdigital.

Date: 25th April 2023

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Sharanam Chotai student at Sardar Patel University of Vallabh Vidhyanagar is doing internship with **Investis Digital India Pvt. Ltd.** Presently he has completed 2.5 months of internship starting from 1<sup>st</sup> February 2023 and the journey of internship continues till 30<sup>th</sup> June 2023. During internship, He is working with good attitude.

During his internship with us, we found Sharanam to be sincere and result oriented.

We wish Sharanam all the best for his future endeavors.

For Investis Digital India Pvt. Ltd

Daisy Anthony

Talent Experience Director

Daisy Anthony

Sharanam Chotai

INVESTIS DIGITAL INDIA PRIVATE LIMITED 5<sup>th</sup> FLOOR, BUSINESS PARK EAST, ALEMBIC ROAD, GORWA VADODARA – 390003, GUJARAT, INDIA CIN NO. U72900GJ2009PTC058693 M. 90999 64708 E. contactindia@investisdigital.com www.investisdigital.com