Hostel Leave Management System:

Team members:

Rithika A.V – 2024115089

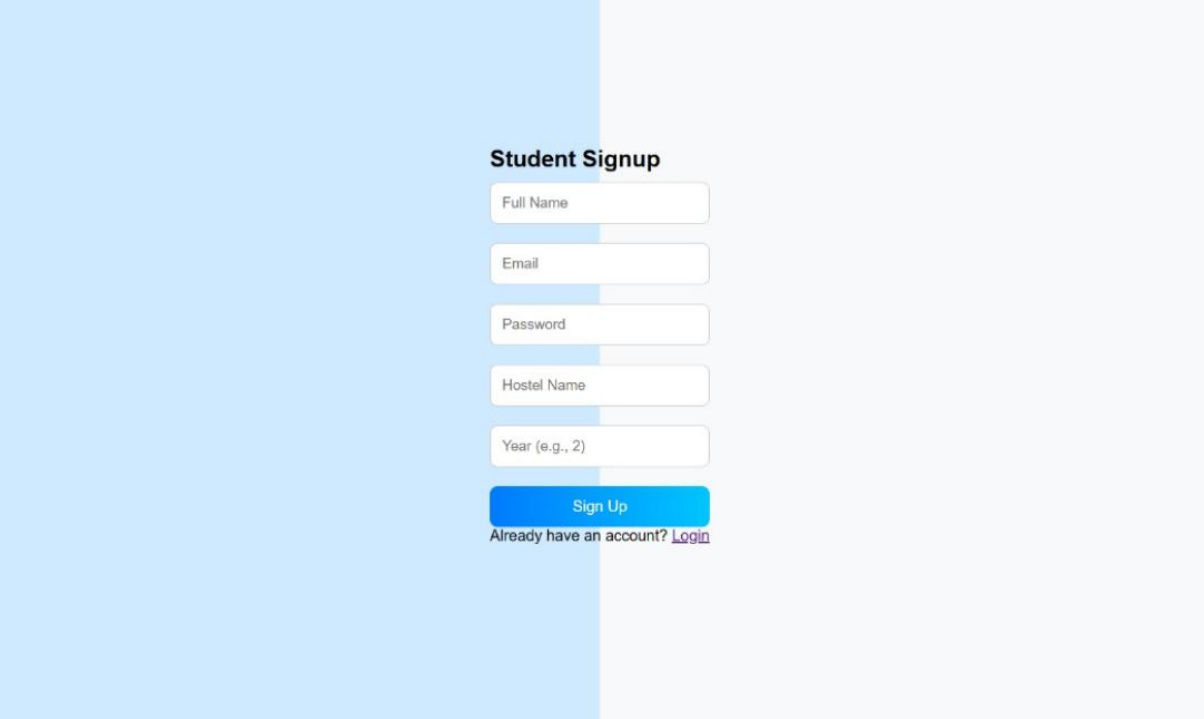
Gayathri T – 2024115057

Ramya R - 2023115047

Introduction / Objective

The *Hostel Leave Management System* is designed to simplify the process of applying for and approving hostel leave requests.
In most hostels, students apply for leave manually using paper forms, which are then submitted to the warden for approval.
This manual process is time-consuming, prone to errors, and difficult to track.

The main objective of this project is to develop a digital system that allows students to submit leave requests online and enables the warden to approve or reject them efficiently.
This system ensures transparency, saves time, and maintains accurate records for future reference.

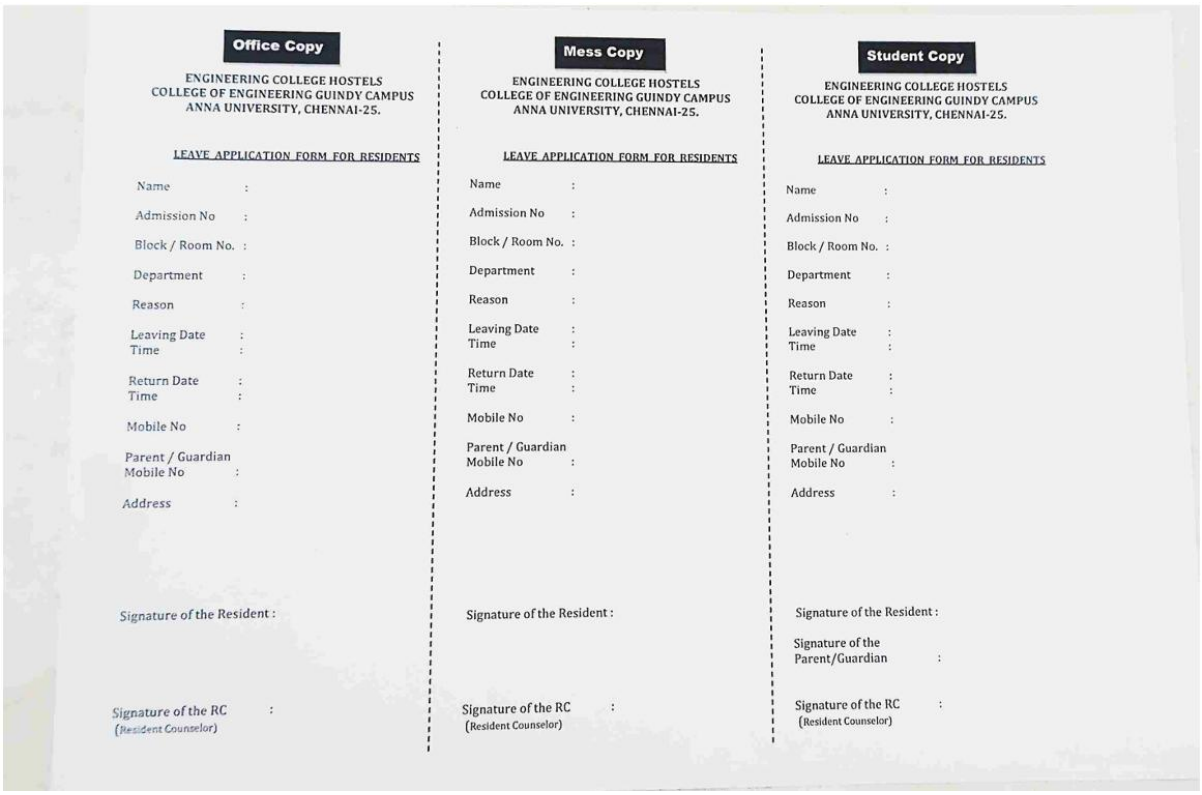


Existing System (Problem Statement)

In the existing system, students apply for leave using paper applications or by directly informing the warden.
This method causes several problems such as:

- Difficulty in maintaining past leave records.
- Delay in getting approval due to manual verification.
- High chances of losing records or making mistakes in data entry.
- No automatic notification or tracking system.

Hence, there is a need for a computerized solution that automates the entire process of hostel leave management.



Office Copy

ENGINEERING COLLEGE HOSTELS
COLLEGE OF ENGINEERING GUINDY CAMPUS
ANNA UNIVERSITY, CHENNAI-25.

LEAVE APPLICATION FORM FOR RESIDENTS

Name :
Admission No :
Block / Room No. :
Department :
Reason :
Leaving Date :
Time :
Return Date :
Time :
Mobile No :
Parent / Guardian
Mobile No :
Address :

Signature of the Resident :

Signature of the RC :
(Resident Counselor)

Mess Copy

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Student Copy

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LEAVE APPLICATION FORM FOR RESIDENTS

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Admission No :
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Mobile No :
Address :

Signature of the Resident :

Signature of the
Parent/Guardian :

Signature of the RC :
(Resident Counselor)

Proposed System

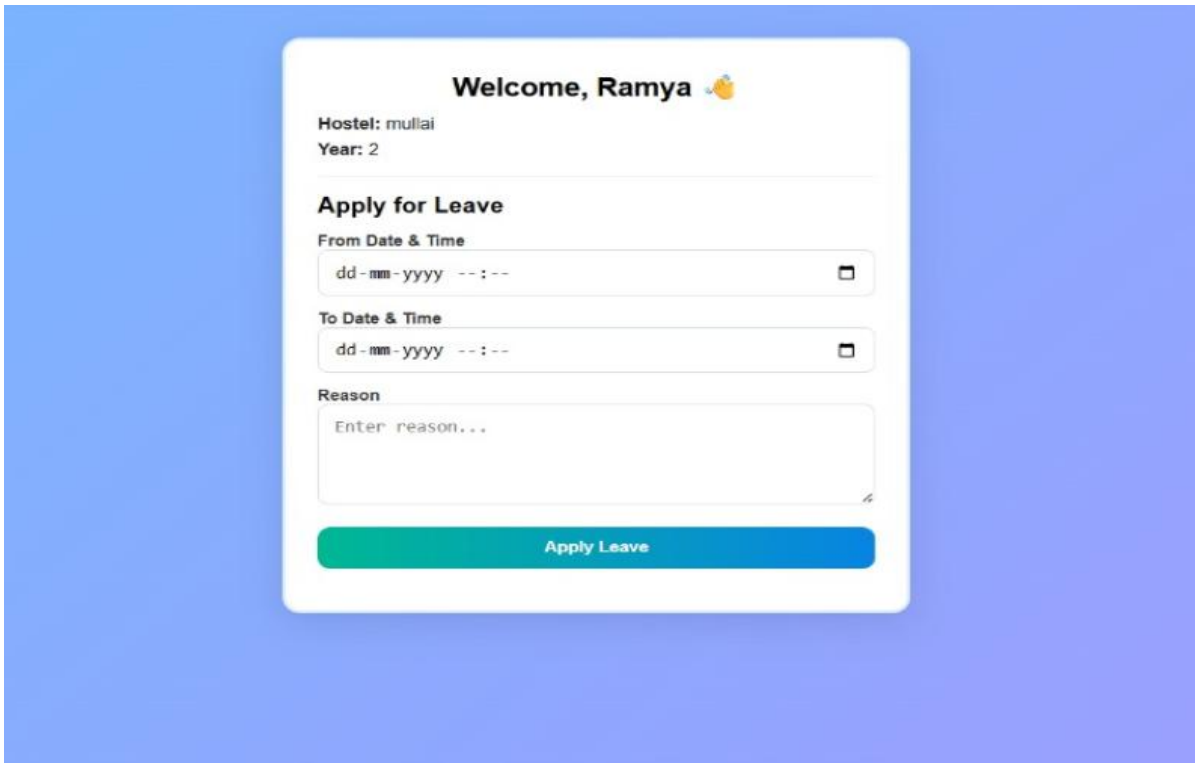
The proposed *Hostel Leave Management System* replaces the manual process with an online database-driven application.
Students can log in to the system, apply for leave by entering details such as date, reason, and duration, and submit it digitally.
The warden or admin can log in separately to view, approve, or reject the leave requests.

Key Features:

- Student login and leave submission.
- Warden/admin login for approval and record management.
- Database to store and track all leave data.
- Easy retrieval of past records.

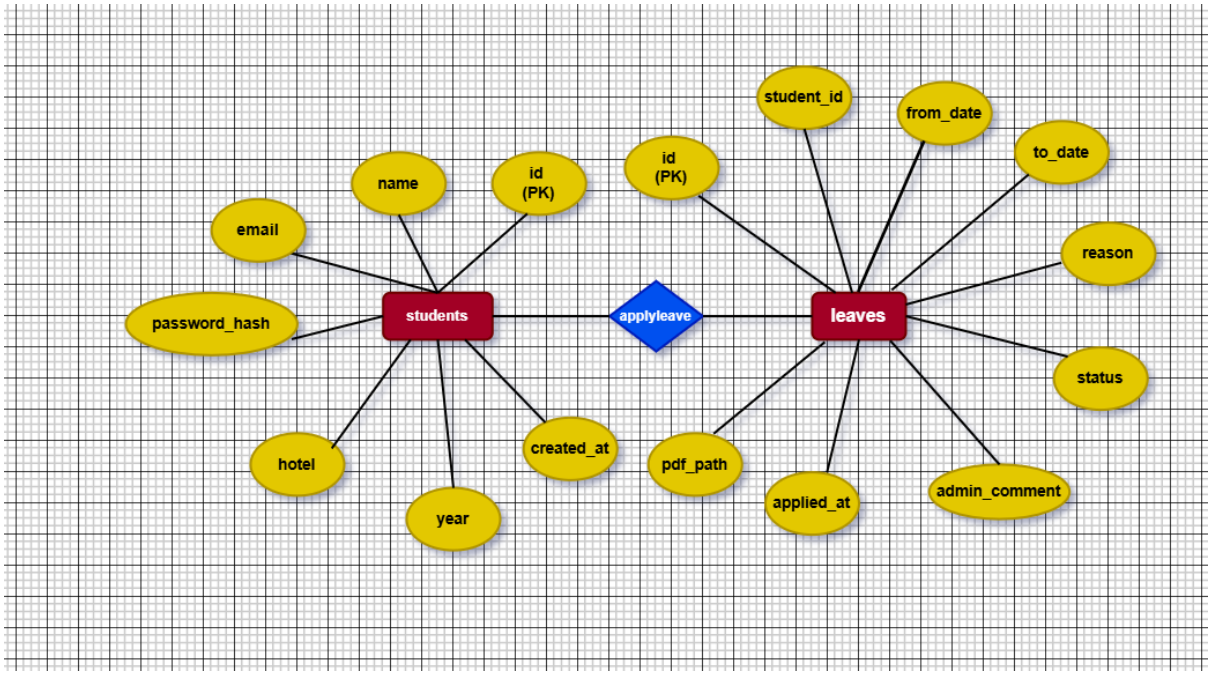
Advantages:

- Reduces paperwork and manual errors.
- Saves time for both students and wardens.
- Provides accurate and organized records.
- Simple user interface and quick access.



ER Diagram

The Entity-Relationship (ER) Diagram represents how data is organized in the database.
It shows the relationship between entities such as *Student* and *Leave Record*.
Each student can apply for multiple leaves, but each leave record belongs to one student.



Database Design

The database for this system includes the following main tables:

```
postgres=# CREATE DATABASE hostel_leave;
CREATE DATABASE
postgres=# \c hostel_leave
You are now connected to database "hostel_leave" as user "postgres".
```

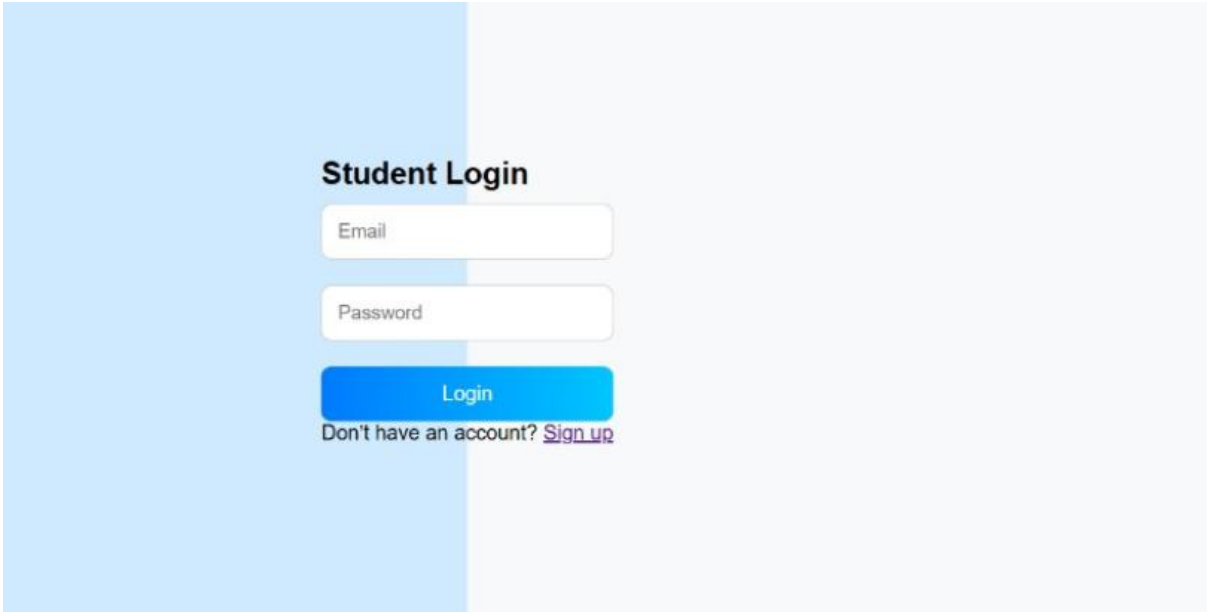
```
hostel_leave=# CREATE TABLE students (
hostel_leave(#   id SERIAL PRIMARY KEY,
hostel_leave(#   name VARCHAR(150) NOT NULL,
hostel_leave(#   email VARCHAR(255) NOT NULL UNIQUE,
hostel_leave(#   password_hash VARCHAR(255) NOT NULL,
hostel_leave(#   hostel VARCHAR(100) NOT NULL,
hostel_leave(#   year INT NOT NULL,
hostel_leave(#   created_at TIMESTAMP DEFAULT NOW()
hostel_leave(# );
CREATE TABLE
```

```
hostel_leave=# CREATE TABLE leaves (
hostel_leave(#   id SERIAL PRIMARY KEY,
hostel_leave(#   student_id INT REFERENCES students(id) ON DELETE CASCADE,
hostel_leave(#   from_date DATE NOT NULL,
hostel_leave(#   to_date DATE NOT NULL,
hostel_leave(#   reason TEXT,
hostel_leave(#   status VARCHAR(20) DEFAULT 'pending', -- pending / accepted / rejected
hostel_leave(#   admin_comment TEXT,
hostel_leave(#   applied_at TIMESTAMP DEFAULT NOW(),
hostel_leave(#   pdf_path VARCHAR(500)
hostel_leave(# );
CREATE TABLE
```

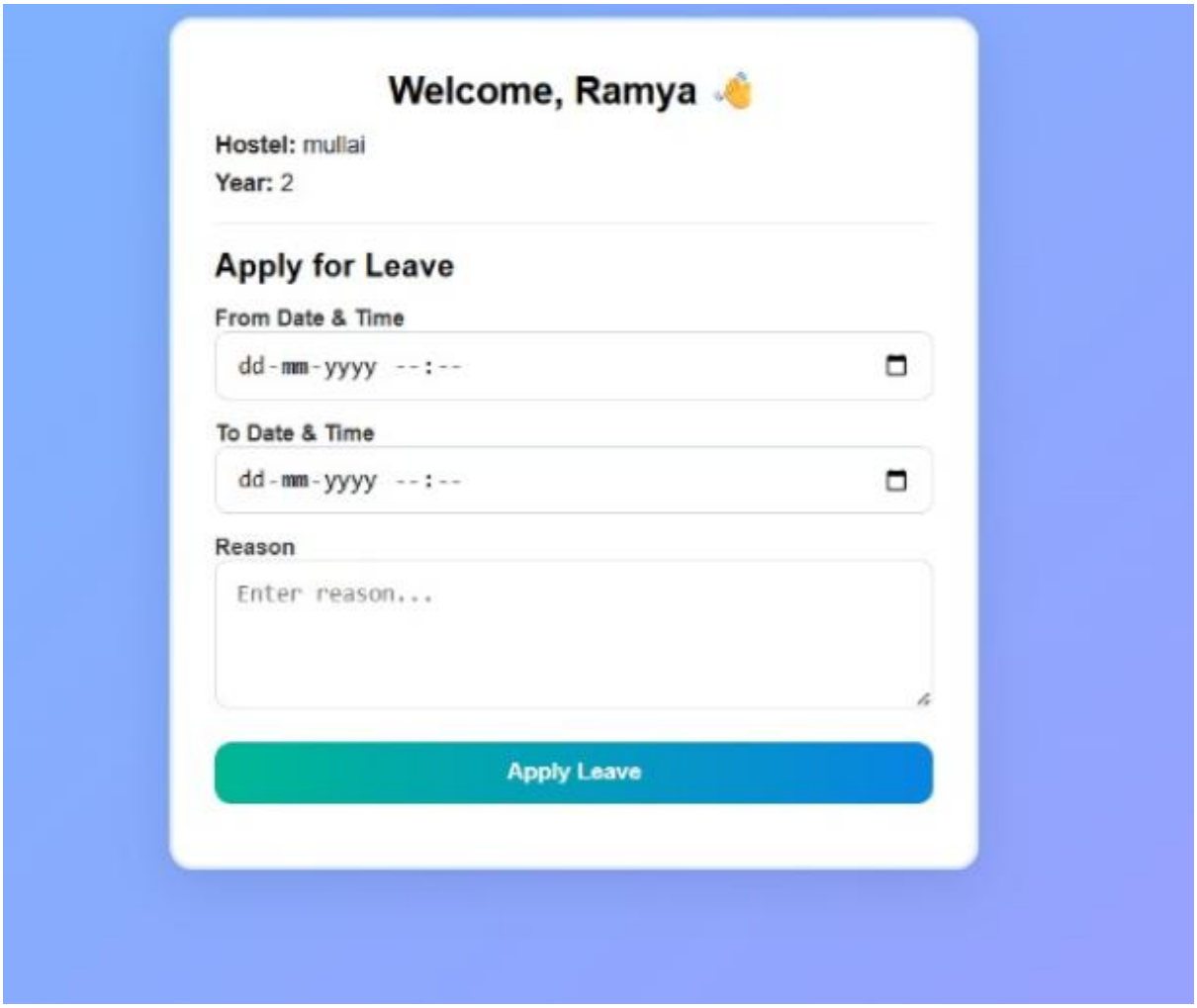
Output Screens

Below are the main screens of the system:

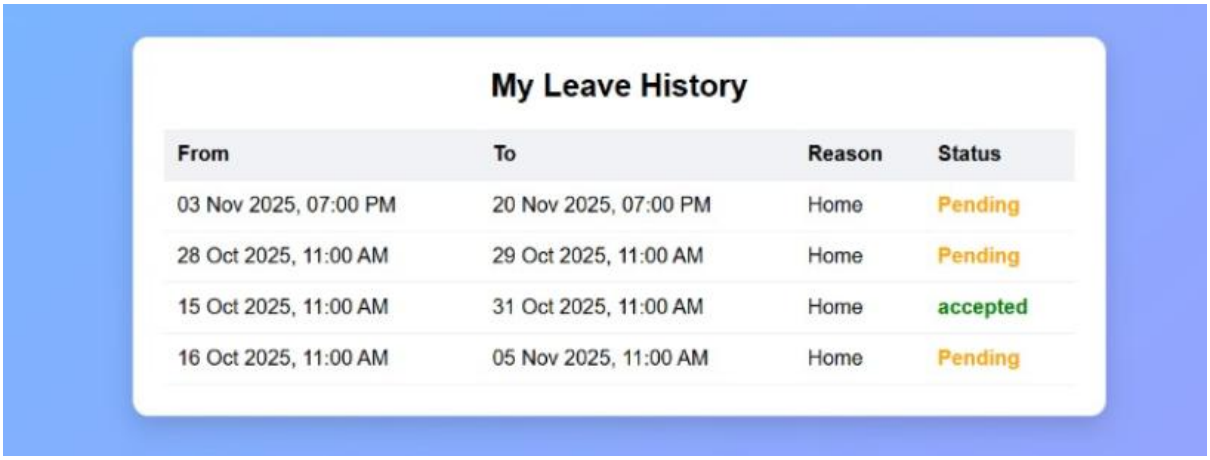
1. **Login Page** – where student and admin log in.



2. **Leave Application Form** – where the student submits the leave details.



3. **Leave Status Page** – shows whether the leave is approved or rejected.



Conclusion

The *Hostel Leave Management System* successfully automates the process of hostel leave application and approval.
It eliminates paperwork, minimizes errors, and ensures proper record management.
This project demonstrates how database systems can be effectively used to simplify real-life administrative tasks and improve efficiency in hostel operations.