##### Management System for Freshers

**Objective**: To create a functional **College Farewell Participant Management System** that facilitates efficient participant registration, tracks payments, and ensures seamless event organization.

# Research

Managing events, such as college farewells, involves several responsibilities, from participant registration and fee collection to ensuring smooth execution. For many people, particularly those without experience or digital tools, this can become overwhelming. Below is a detailed exploration of common challenges faced in event management and how systems like the one in the code can help mitigate these issues.  
**Challenges in Event Management**

1. Many event organizers rely on paper forms or spreadsheets, leading to inefficiencies and errors.
2. Without a systematic way to verify entries, duplicate or incomplete participant details are common.
3. Physical records or disorganized digital files can lead to loss or corruption of participant data.
4. Difficulty in tracking who has paid and who hasn't often leads to disputes.
5. Participants may question how their fees are being managed if records are unclear.
6. Organizers may struggle to follow up with participants who haven’t completed payment.
7. Poor communication channels can result in participants missing important information, like schedule updates.
8. In manual systems, changes to schedules or participant lists take longer to propagate, causing delays.
9. Difficulty in quickly identifying specific participants (e.g., by payment status) hampers decision-making.

10. Expenses and revenue often go untracked, resulting in budget overspending or under-utilization.

11. Mismanagement may lead to missed opportunities to collect fees from all participants.

# Analysis

The problems associated with event management, it is crucial to break them down into categories and identify their root causes, impacts, and the potential benefits of using a digital management system.

**1. Problem: Inefficiency in Participant Registration**

* **Root Cause**:
  + Manual entry processes increase the likelihood of human error.
  + Lack of a centralized system leads to disorganized records.
* **Impact**:
  + Duplicate or incomplete records disrupt event planning.
  + Time is wasted reconciling or verifying participant details.
* **Analysis**:
  + A lack of automation creates inefficiencies that cascade into other management areas, such as fee tracking and communication.
  + Organizers need a system that validates and organizes participant data in real time.

**2. Problem: Difficulty in Fee Collection and Tracking**

* **Root Cause**:
  + No dedicated tool to track who has paid and how much.
  + Relying on manual or distributed systems (e.g., spreadsheets or handwritten lists).
* **Impact**:
  + Payment disputes occur, leading to a lack of trust among participants.
  + Organizers may struggle with budgeting due to unclear financial records.
* **Analysis**:
  + An inability to track payments in real time can result in financial losses and operational delays.
  + Digital systems can streamline this by automatically updating payment statuses and aggregating totals.

**3. Problem: Ineffective Communication and Coordination**

* **Root Cause**:
  + Event details and updates are shared across fragmented channels (e.g., emails, WhatsApp).
  + Participants are not categorized, making it hard to tailor communications.
* **Impact**:
  + Participants may miss important updates or be confused about event logistics.
  + Organizers lose time answering repetitive queries.
* **Analysis**:
  + Centralized communication is essential to avoid mismanagement. A unified system could help filter and disseminate information efficiently.

# Ideate

The main Idea was to Provide an intuitive interface for managing participant data, including search, filter, and update functionalities. Enable real-time tracking of payment status and total fees collected. Support deleting and updating of participant details with minimal user effort. Ensure flexibility for small scale events. So that managing event would be easy and can enjoy the event fully

# BUILD

**Frontend Development:**

* **HTML Structure**: Designed a semantic layout for adding, updating, and displaying participants, along with sections for searching and filtering.
* **CSS Styling**: Styled the page for responsiveness and accessibility, ensuring a clean, user-friendly interface across devices.
* **JavaScript Functionality**:
  + Handled participant registration, payment status updates, and participant deletion.
  + Implemented real-time search, filtering by payment status, and dynamic total fee calculation.
  + Included alerts and confirmation messages to enhance user interaction.

This build focuses on a fully interactive front-end that facilitates easy management of participants for a college farewell event, with a focus on usability and responsiveness.

# TEST

1. **Add Participants**: Verified the ability to add participants with valid details, ensuring they appear in the list and the total fees are updated correctly.
2. **Delete Participant**: Tested participant deletion functionality, confirming the participant is removed from the list and the fee total adjusts.
3. **Update Payment Status**: Ensured the system correctly updates payment statuses and reflects changes in the list and total fees.
4. **Search Functionality**: Confirmed that searching by name filters the participants list in real-time.
5. **Display by Payment Status**: Tested the ability to filter participants by their payment status (Paid/Not Paid).
6. **Total Fees Calculation**: Verified the correct calculation and dynamic update of total fees based on paid participants.
7. **Invalid Input Handling**: Checked that invalid inputs trigger error alerts, prompting users to correct them.
8. **Responsiveness**: Ensured the layout is responsive and accessible across different devices and screen sizes.

The system passed all tests, confirming its functionality for managing participants and their payment statuses efficiently.

# IMPLEMENT

The **College Farewell Participant Management System** provides a user-friendly interface to manage event participants. Here's how to implement it in a few simple steps:

1. **Participant Management**:
   * **Add Participants**: Create a form to input participant details like name, phone number, payment status, entry pass, and fee. Store this data in an array (or ideally a database for persistence).
   * **Display Participants**: List all participants with their details, including payment status and fees.
2. **Payment Tracking**:
   * Calculate the total fees collected by summing the fee amounts of participants who have marked as paid.
3. **Search Functionality**:
   * Provide a search bar that allows users to filter the list of participants by name. Update the list dynamically as users type.
4. **Delete and Update Options**:
   * Allow deletion of participants by name and updating their payment status using input fields and buttons.
5. **Payment Status Filters**:
   * Provide buttons that filter participants based on their payment status (Paid or Not Paid).

**Key Improvements:**

* Store data persistently (e.g., in a database or localStorage) to prevent data loss on page refresh.
* Replace sequential prompts with a more intuitive form-based UI for easier data entry.
* Add security features like data encryption for sensitive information (e.g., phone numbers).

This implementation can be enhanced with features like role-based access, notifications, and scalability through backend integration.

GITHUB LINK-

NAMES-PARTH TOPALE(B24CE1060)  
 SRUJAL BHONDE(B24CE1059)