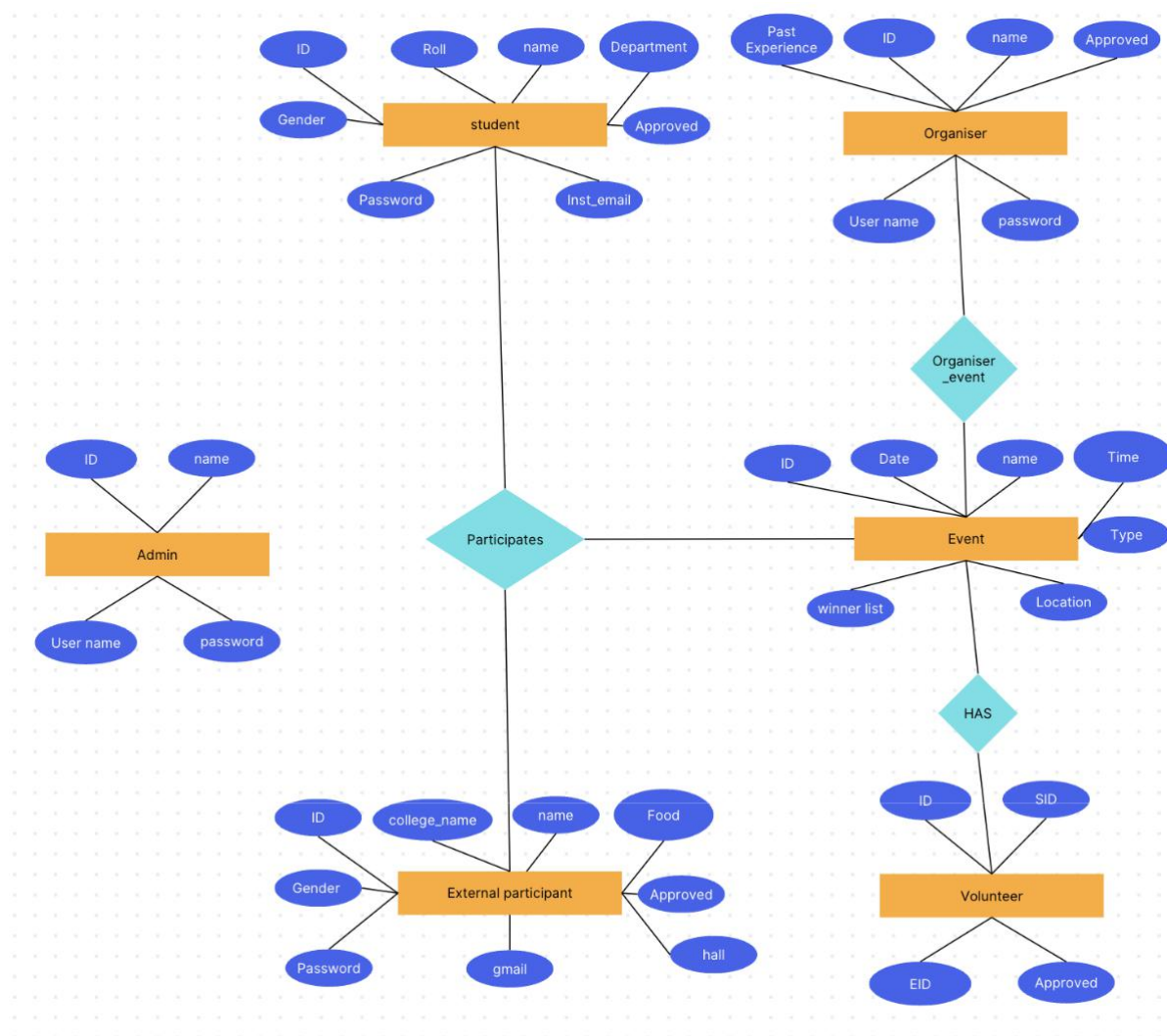# College Festival Management Web Application

The goal of the College Festival Management Web Application is to make college festival planning and administration more efficient. Features like participant registration, volunteer management, event scheduling, and more will be available through the application. The application's design elements, such as its forms, queries, triggers, and schemas, are described in this report.

## ER Diagram:



## Schemas :

# 1.Admin

- ID (primary key)
- Name
- user name
- Password

# 2.Student

- ID(primary key)
- Roll
- Name
- Department
- Gender
- Password
- Institute_email
- Approved

# 3.Event

- ID(primary key)
- Name
- Date
- time
- Type
- Location
- Winners_list

# 4.Organiser

- ID(primary key)
- Name
- Username
- password
- Past Experience
- Approved

# 4.Organiser_Event

- ID (primary key)
- OID (Foreign key)
- EID (Foreign key)
- Approved

# 5.Volunteer

- ID(primary key)

- Student ID
- Event ID
- Approved

## 6.Participant
- ID (primary key)
- EID (Foreign key)
- type
- SID

## 7.External participant
- ID( primary key)
- Name
- College_name
- Gender
- Gmail
- Password
- Food
- Hall
- approved

# Functionalities

- Registration and login for student, external participant, organiser, admin.
- Students,External Participants and Organizers can login into the website only after approval from the admin.
- After the successful login of the students/external participants, they will be able to see only the events currently having organizers.
- Students after being requested to volunteer for the specific event, need to wait for approval from the organizer who is organizing that event.
- Students/External Particpants got to know their participation ID's on participation in any of the events.
- Studenst/External Participants able to see the winners of the event.
- Organisers will be able to register for events and they have to wait for approval of admin
- Upon approval from admin, organiser will be able to modify event details.
- Organiser can see the list of participants for all the events in which they are organisers.
- Organiser can see the list of approved volunteers and unapproved volunteers
  .

- Organiser can approve or decline each one of the unapproved volunteers.
- Admin has access to the list of existing events. He can also add an event, edit an event.
- Admin can see the list of approved students, external participants, organisers.
- Admin can approve or decline list of unapproved students, external participants, organisers.

# Foreign Key (ONCASCADE)

- On deletion of the organizer record in the organizer table, the corresponding record in the org_event table needs to be deleted.
- On deletion of the event record in the event table, the corresponding record in the org_event table needs to be deleted.
- On deletion of the student record in the student table, the corresponding record in the volunteer table needs to be deleted.
- On deletion of the event record in the event table, the corresponding record in the volunteer table needs to be deleted.
- On deletion of the event record in the event table, the corresponding record in the participant needs to be deleted.

# Triggers :

A trigger in a relational database is a special type of stored procedure that automatically executes in response to certain events on a table or view. These events include INSERT, UPDATE, DELETE operations, or even DDL (Data Defnition Language) statements like CREATE, ALTER, and DROP.

1. On deletion of the record in the student table a trigger is created to delete the corresponding record in the participant table.
2. On deletion of the record in the external participant table a trigger is created to delete the corresponding record in the participant table
3. On updation of the attribute(Approved) in the organizer table(done when Admin approves) a trigger is created to automatically update the attribute(Approved) of the corresponding organizer in the org_event table

# Queries :

1. Event Schedule Query: Retrieve the Schedule of all the Events.

2. Participant Registration Query: Retrieve the list of participants registered for a specific event.

3. Volunteer Assignment Query: Retrieve the list of volunteers assigned to assist with a particular

event.

4. Winners Query: Retrieves the names of all winners along with their respective events.

# Forms :

**Login Form:**

This form provides a secure gateway for users to access the system by entering their credentials. Users are required to input their mail and password to authenticate and gain access to the system's features and functionalities.

**Registration form:**

This form facilitates user management for administrators by enabling the addition or deletion of users. Administrators can input essential user details such as name, email, and role to effectively manage user accounts within the system.

# Conclusion

The design outlined in this report provides a solid foundation for the development of the College Festival Management Web Application. It ensures efficient data management, data integrity, and user-friendly interaction, thereby facilitating the successful organization and execution of college festivals.