

# Farewell Party Management System

Project Report

## Database Systems(CS-2005)

|                           |          |
|---------------------------|----------|
| Introduction              | 2        |
| Project Objectives        | 2        |
| Tools Used                | 2        |
| System Architecture       | 2        |
| Deliverables              | 3        |
| • ERD:                    | 3        |
| • Schema diagram:         | 4        |
| <b>Table Descriptions</b> | <b>6</b> |
| Conclusion                | 7        |

### TEAM MEMBERS

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## **Introduction**

The Farewell Party Management System is designed to streamline the organization of farewell events for senior students, ensuring active participation from all stakeholders including junior students, teachers, and their families. This comprehensive platform covers various aspects such as attendee management, task assignments, budget tracking, menu planning, performance proposals, and decoration arrangements.

## **Project Objectives**

- Enable university-wide participation for event planning.
- Implement a user-friendly interface for students, teachers, and organizers.
- Automate tasks allocation and progress tracking.
- Track attendance and manage budget effectively.

## **Tools Used**

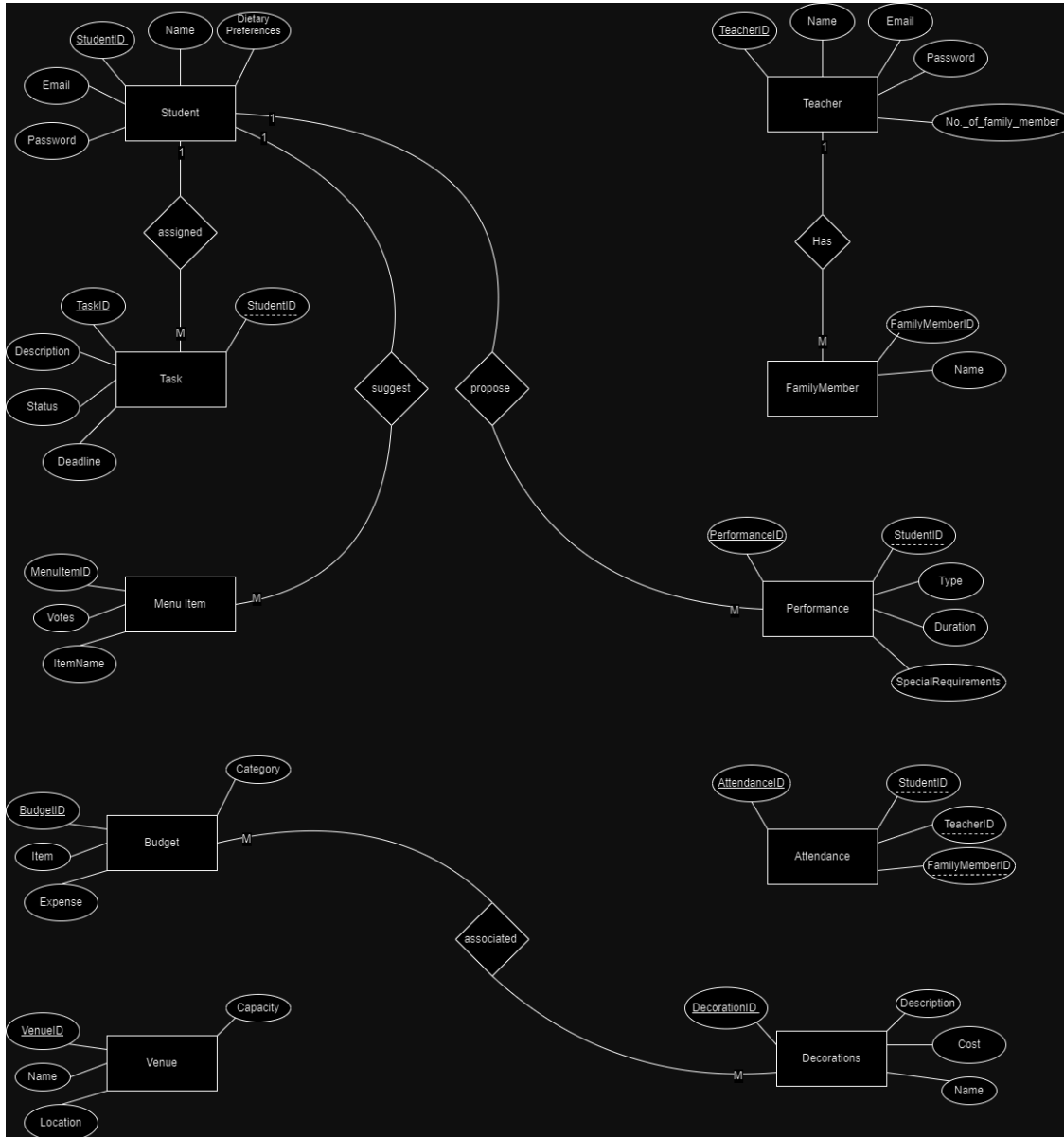
- Node.js
- Express.js
- Tailwind CSS
- Flowbite
- MySQL

## **System Architecture**

The system follows a client-server architecture where the frontend is developed using HTML, CSS, and JavaScript, and the backend is powered by Node.js and Express.js. MySQL is used as the relational database management system to store and manage data.

# Deliverables

- ERD:



- Schema diagram:

| Field        | Type        | Null | Key | Default | Extra          |
|--------------|-------------|------|-----|---------|----------------|
| AttendanceID | int         | NO   | PRI | null    | auto_increment |
| StudentID    | int         | YES  | MUL | null    |                |
| Status       | varchar(50) | YES  |     | Absent  |                |

| Field    | Type          | Null | Key | Default | Extra          |
|----------|---------------|------|-----|---------|----------------|
| BudgetID | int           | NO   | PRI | null    | auto_increment |
| Item     | varchar(100)  | YES  |     | null    |                |
| Amount   | decimal(10,2) | YES  |     | null    |                |
| Category | varchar(100)  | YES  |     | null    |                |

| Field          | Type         | Null | Key | Default | Extra          |
|----------------|--------------|------|-----|---------|----------------|
| FamilyMemberID | int          | NO   | PRI | null    | auto_increment |
| Name           | varchar(100) | YES  |     | null    |                |
| Relationship   | varchar(100) | YES  |     | null    |                |
| TeacherID      | int          | YES  | MUL | null    |                |

| Field      | Type         | Null | Key | Default | Extra          |
|------------|--------------|------|-----|---------|----------------|
| MenuItemID | int          | NO   | PRI | null    | auto_increment |
| ItemName   | varchar(100) | YES  |     | null    |                |
| Votes      | int          | YES  |     | null    |                |

| Field               | Type         | Null | Key | Default | Extra          |
|---------------------|--------------|------|-----|---------|----------------|
| PerformanceID       | int          | NO   | PRI | null    | auto_increment |
| Type                | varchar(100) | YES  |     | null    |                |
| Duration            | int          | YES  |     | null    |                |
| SpecialRequirements | varchar(255) | YES  |     | null    |                |
| ProposedBy          | int          | YES  | MUL | null    |                |

| Field              | Type         | Null | Key | Default | Extra |
|--------------------|--------------|------|-----|---------|-------|
| StudentID          | int          | NO   | PRI | null    |       |
| Name               | varchar(100) | YES  |     | null    |       |
| Email              | varchar(100) | YES  | UNI | null    |       |
| Password           | varchar(100) | YES  |     | null    |       |
| Role               | varchar(100) | YES  |     | null    |       |
| DietaryPreferences | varchar(255) | YES  |     | null    |       |

| Field       | Type         | Null | Key | Default | Extra          |
|-------------|--------------|------|-----|---------|----------------|
| TaskID      | int          | NO   | PRI | null    | auto_increment |
| Description | varchar(255) | YES  |     | null    |                |
| Status      | varchar(50)  | YES  |     | null    |                |
| Deadline    | date         | YES  |     | null    |                |
| AssignedTo  | int          | YES  | MUL | null    |                |

| Field     | Type         | Null | Key | Default | Extra          |
|-----------|--------------|------|-----|---------|----------------|
| TeacherID | int          | NO   | PRI | null    | auto_increment |
| Name      | varchar(100) | YES  |     | null    |                |
| Email     | varchar(100) | YES  | UNI | null    |                |
| Password  | varchar(100) | YES  |     | null    |                |

| Tables in fms |
|---------------|
| attendance    |
| budget        |
| familymember  |
| menuitem      |
| performance   |
| sessions      |
| student       |
| task          |
| teacher       |

## Table Descriptions

### Students Table:

- Attributes:
  - student\_id: Unique identifier for each student (Primary Key).
  - username: Username for student login.
  - password: Encrypted password for student login.
  - name: Full name of the student.
  - email: Email address of the student.
  - dietary\_preferences: Information about dietary preferences or restrictions.
  - family\_members: Number of family members accompanying the student.

### Menu Suggestions Table:

- Attributes:
  - suggestion\_id: Unique identifier for each menu suggestion (Primary Key).
  - student\_id: Foreign key referencing the student who made the suggestion.
  - item\_name: Name of the suggested menu item.
  - votes: Number of votes received for the menu item.

### Performance Proposals Table:

- Attributes:
  - proposal\_id: Unique identifier for each performance proposal (Primary Key).
  - student\_id: Foreign key referencing the student who proposed the performance.
  - performance\_type: Type of performance proposed (e.g., music, dance, skit).
  - duration: Estimated duration of the performance.
  - special\_requirements: Any special requirements for the performance.
  - votes: Number of votes received for the performance proposal.

### Teachers Table:

- Attributes:
  - teacher\_id: Unique identifier for each teacher (Primary Key).
  - name: Full name of the teacher.
  - email: Email address of the teacher.
  - number\_of\_family\_members: Number of family members accompanying the teacher.

**Tasks Table:**

- Attributes:
  - task\_id: Unique identifier for each task (Primary Key).
  - task\_description: Description of the task to be performed.
  - assigned\_to: Identifier for the individual or team assigned to the task.
  - status: Current status of the task (e.g., pending, in progress, completed).

**Attendance Table:**

- Attributes:
  - attendance\_id: Unique identifier for each attendance record (Primary Key).
  - student\_id: Foreign key referencing the student attending the event.
  - teacher\_id: Foreign key referencing the teacher attending the event.
  - family\_member\_id: Identifier for each family member accompanying a student or teacher.
  - status: Attendance status (e.g., present, absent).

**Budget Table:**

- Attributes:
  - budget\_id: Unique identifier for each budget entry (Primary Key).
  - category: Category of the budget allocation (e.g., venue booking, catering, decorations).
  - amount\_spent: Amount of money spent in the specified category.
  - total\_budget: Total allocated budget for the category.

## **Conclusion**

The Farewell Party Management System offers a comprehensive solution for organizing memorable events, ensuring seamless coordination, and effective budget management. By leveraging modern web technologies and robust database management, the system provides a user-friendly interface for all stakeholders involved.