



**Course Code: CS-2005**

**Course Name: Database Systems**

**Semester-Fall, 2023**

**Semester Project**

**Maximum Members: 2 members per group**

### **Description:**

The Welcome Party Management System is a comprehensive platform designed for senior students to organize a memorable welcome party for their junior counterparts. The system not only streamlines the event planning process but also caters to the involvement of teachers who can attend with their children. The goal is to create a holistic experience, covering aspects such as attendee management, task assignments, budget tracking, and detailed planning of dinner, stage performances, decorations, and venue arrangements. This includes:

- **University-Wide Participation:**
  - Enable all university students to suggest items for the dinner menu and volunteer for stage performances.
  - Implement a voting system for menu items and performance proposals.
- The use cases are as follows:
  - **Student Registration\Login:**
    - New and returning students can register for the welcome party.
    - Provide fields for personal details, dietary preferences and additional family members.

- Ensure validation for mandatory fields.
- **Menu Suggestions:**
  - Students can suggest items for dinner menu.
  - Implement a strong voting mechanism for the suggested items.
  - The most popular item becomes the part of final menu.
- **Performance Volunteer:**
  - Allow students to propose performances for the welcome party.
  - Provide details such as performance type, duration, and any special requirements.
  - Voting can be introduced for selecting the most anticipated performances.
- **Teachers and family registration:**
  - Teachers can register for the event and provide information about accompanying family members.
  - Teachers' registration is complimentary, and details about the number of accompanying family members should be captured.
- **Allocation of tasks:**
  - Organizers can assign tasks related to decorations, venue setup, and other responsibilities to student volunteers.
  - Progress tracking and completion status should be visible.
- **Attendance Tracking:**
  - System administrators can track the attendance of students, teachers, and their families.
  - Generate reports on the number of attendees and any special requests or considerations.
- **Budget Tracking:**
  - Implement a budget tracking system to monitor expenses related to venue booking, catering, decorations, etc.
  - Regularly update the budget status to avoid overspending.

### **Additional Description for Role-Based Use Cases for Welcome Party Management System:**

#### **Authentication:**

**Actor:** Senior Student

**Description:** Authenticate into the system with a unique username and password.

#### **Use Case Steps:**

- Enter username and password.
- System verifies credentials.
- Access granted to the relevant role-specific dashboard.

### **View/Manage/Edit Dinner Menu:**

**Actors:** Manager of Dinner Menu Team, Dinner Menu Team

**Description:** Create, modify, and manage the dinner menu for the welcome party.

#### **Use Case Steps:**

- **View Menu:**
  - View the current menu items.
- **Manage Menu:**
  - Add new menu items.
  - Remove or modify existing items.
- **Budget Consideration:**
  - Ensure proposed menu items align with the allocated budget.

### **View/Manage Performances:**

**Actors:** Manager of Performance Team, Performance Team

**Description:** Manage and organize stage performances for the welcome party.

#### **Use Case Steps:**

- **View Performances:**
  - See the list of proposed performances.
- **Manage Performances:**
  - Accept or reject performance proposals.
  - Allocate time slots and venues for performances.
- **Coordinate Rehearsals:**
  - Schedule rehearsals for selected performances.

### **View Updates:**

**Actors:** All Senior Students

**Description:** Stay informed about the latest updates and progress related to the welcome party.

#### **Use Case Steps:**

- **View Announcements:**
  - Read announcements from the organizing committee.
- **Check Task Assignments:**
  - View updates on assigned tasks and deadlines.

**Make Invitations:**

**Actors:** Manager of Invitation Team, Invitation Team

**Description:** Design and distribute invitations for the welcome party.

**Use Case Steps:**

- **Design Invitations:**
  - Create visually appealing invitation cards.
- **Distribution:**
  - Send invitations via email, print, or other chosen methods.

**Manage Budgets:**

**Actors:** Budget Manager

**Description:** Track and manage the budget for the welcome party.

**Use Case Steps:**

- **Budget Overview:**
  - View the allocated budget and categories.
- **Expense Tracking:**
  - Record expenses for venue, catering, decorations, etc.
- **Budget Adjustment:**
  - Make adjustments to the budget based on expenditure.

**Task Assignment:**

**Actors:** Manager of Each Team (Decor, Invitation, etc.)

**Description:** Assign tasks to team members and track progress.

**Use Case Steps:**

- **Task Creation:**
  - Define tasks related to each team's responsibilities.
- **Assignment:**
  - Assign tasks to team members.
- **Progress Tracking:**

- Monitor the status of assigned tasks.

**Tasks:**

- Draw the ERD of the above scenario.
- Map them into Relational Schema.
- Extend the database schema to include new tables and relationships.
- Implement registration forms for teachers and students with family members.
- Develop modules for dinner menu planning, stage performance proposals, and decoration themes.
- Design a user-friendly interface to capture and display the additional information.
- Create reports for teachers, students, and organizers to view relevant details about the event.
- Establish the MySQL database connection with Node.js for seamless data integration.
- Design and implement the HTML and CSS components for the user interface.
- Your marks are dependent on the creativity of your HTML and CSS files. Detailed rubric will be shared later.
- Implementation of any additional/relevant use case will be considered bonus.
- You can use tools like draw.io to make ERD. Hand written ERD is not acceptable.

DB PROJECT

**Good Luck!**