# IST359 Project Template

**Project Name:** ETS events and student employees  
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# Idea

The database is about the student employee system in ETS (Event & Technical Service) department in Student Engagement, the database would cover the relationships between employees (pro-staffs and student employees) and events in Schine Student Center. The database is used to track the status of employees and events. As a current student employee who work in ETS, I hope this database can help to track the work status of employees in ETS for events.

# Business Rules – 10 pts + 10 pts for Complexity

## Entities

* **Student Engagement** – the division that handle the events host by student organizations.
* **ETS (Event & Technical Service) Employee** – information of employee who works in ETS that provide venue and technical support for events in Schine Student Center.
* **Student Employee –** students who work for the Student Engagement.
* **Organizers** – the person who host the events in Schine.
* **Event** – the name of event that host by organizations.
* **Pro-staff –** full-time employees work for ETS.
* **Venue –** the location that events happen.
* **Venue Crew –** the student crew who provide venue support for an event.
* **Tech Crew –** the student crew who provide technical support for an event.
* **Student Lead –** leader among student employees.
* **Student Trainer –** student employee who promoted and willing to teach other students for a specific position.
* **Student Trainee –** student employee who interested in a position and pursuing for a promotion.
* **Position –** the positions student employees can work.

## Attributes

In this section, include a complete list of attributes for each entity. Be sure to indicate the attribute types. Example:

* **Student Engagement –** departments id [rm], department name [r]
* **ETS Employee –** employee name [r], employee email [ru], id [ru], employee phone number [rm], employee type [r]
* **Student Employee –**name [r], student id [ru], student positions [rm]
* **Organizer –** name [r], organization name [r], email [ru], event name [r]
* **Event –** event name [r], event time [r], event organization [rm]
* **Pro-staff –** name [r], department [ru], id[ru]
* **Venue –** venue name [r]
* **Venue Crew –** student name [r], student id [ru]
* **Tech Crew –** student name [r], student id [ru]
* **Student Lead –** student name [r], student id [ru], group number [r]
* **Student Trainer –** student name [r], position name [rm]
* **Student Trainee –** student name [r], position in train [ru]
* **Position –** position name [r]

## Relationships

ETS belongs to Student Engagement.

ETS hired more than one student employees.

Venue can be used in one and only one event at a time; each event can happen in one and only one venue at a time.

ETS is in charge of controlling event venues; venues are controlled by ETS.

Organizers can choose one and only one venue for an event; venues are available for more than one events.

Organizers can host zero or more events; events can be host by one or more organizers.

Each event will have at least one ETS pro-staff or student lead present; student lead and pro-staff can work for more than one event.

Each event has at least one ETS student employee; student employee can work in zero or more events.

ETS provide service to event; events need to be approved by ETS.

ETS student employees can work in one or more positions as Tech Crew or Venue Crew; each grew has more than one student employee.

ETS student employees are able to work in more than one positions; each position needs zero or more student employee.

ETS student employees can request to take training for zero or one position; each position has more than one trainee.

ETS student employees who got promotion can be trainers for a specific position; each position has more than one trainer.

Trainers can train zero or one trainee; trainee can be trained by one or more trainer.

ETS student employees are only allowed to be trainee for one and only one position at a time.

Student leads are in charge of oversee a group of employees; each employee has one and only one student lead.

Student Engagement manage student events; events are managed by Student Engagement.

Events need at least one Tech Crew and at least one Venue Crew; both tech and venue crew will work in more than one event.

# Conceptual Model / ERD Diagram 15 pts

A diagram of a computer program

Description automatically generated

# Logical Model

A diagram of a company

Description automatically generated