

# ENTITY RELATIONSHIP DIAGRAM

## ENTITIES:

STEM, Student, Instructor, Class, Project, Rating, Payroll, Software Used, Project Team, Orders, Project Components, Project Components Store, Fee Payment, Textbook.

The following tables are used in the ER diagram:

1. **STEM:** It contains details about the organization which is conducting classes and projects.
2. **Student:** It specifies the details of all students and specifies that each student attends classes under instructors, works on a project under supervisor and pays fee for the course and at the end of the course, gives rating to instructors, course, project.
3. **Instructor:** Instructor teaches courses, refers textbooks, supervises projects and gets paid for the number of hours he/she works.
4. **Class:** A class contains students, who take a particular course under an instructor.
5. **Project:** It contains details about all the projects that are given to students.
6. **Rating:** It contains the ratings of instructor, courses and project given by the student at the end of the course.
7. **Payroll:** It contains details about the number of hours taught by the instructor, number of hours supervised and the details regarding the pay scale and net payment of the instructor.
8. **Software used:** All the software apart from the hardware components required to make the project completion successful are store in this table.
9. **Project Team:** This contains details about the teammates of each project assigned to a set of students.
10. **Orders:** All the project components are procured from orders from various suppliers. Their details along with the order status are shown in this table.
11. **Project Components:** Contains the details on the parts used by each team to finish a project successfully.
12. **Project components store:** It contains details on the available project parts that are present to be given to students.
13. **Fee payment:** It contains details on the fee payment that is to be done before enrollment of a student in the course and project.
14. **Textbook:** It contains details on the details of textbooks present which are to be referred by the students and instructors for course and project purposes.