

STUDENT ENROLLMENT SYSTEM

PURPOSE -

The purpose of the above data model is to represent a student enrollment system. The model is designed to store and manage information related to students, courses, and enrollments. It provides a structure for organizing and storing data related to these entities, including their attributes and relationships. The model can be used to track which courses a student has enrolled in, which students are enrolled in a particular course, enrollment dates. The data model can be used by educational institutions, such as schools or universities, to manage student enrollment and course registration process. It can also be used to generate reports, analyze enrollment trends, and make informed decisions about course offerings and student performance. Examples are various ed-tech platforms like - BYJU's, Udemy, Coursera etc.

ENTITIES:

- Student This entity represents the Students of the enrollment system.
- Course This entity represents the courses of the enrollment system.

ATTRIBUTES:

- Student :
Student_id, Student_name(Composite Attribute: can be categorized into First_name and Last_name), Email, Address(Composite Attribute: can be categorized into State,City,Street,Pincode), Phone_number,Gender and DOB
- Course :
Course_id,Course_name,Description,End_date,Instructor_name,Start_date, Credits.

PRIMARY KEY -

- Student - Student_id
- Course - Course_id

RELATIONSHIP :

- {Student,Course} - Many to Many

ASSUMPTIONS:

The Assumptions in this data model are that :-

- This data model assumes that a student can enroll in multiple courses and a course can have multiple students.

- It also assumes that each enrollment is unique and can be referenced by Course_id and student_id acting as a existing as foreign key in Enrollments intersection table

ER MODEL :

