Student Registration System ER Diagram

The **ER diagram for student registration system** shows the relationships of the student registration entities and its database design. This describes the logical structure of the system's database or data storage. It is done by identifying the student registration process entities, their properties, and the interactions between them. The database design is sketched out using **student registration system ER diagrams**. This database sketch becomes the actual basis of the system's data storage that will serve as data destination and source.

Student Registration System Database Design

This **Student Registration system database** was made based on student registration management requirements. The system can encode the student's information upon the registration. The admin can have access to the students' status as well as their transactions. They can handle the data needed in managing information and records the request made by the students.

The features included in the system ER diagram were the security and monitoring of the school information and students' information status. These features were also listed and recorded in reports that served as the history of transactions done in the system.
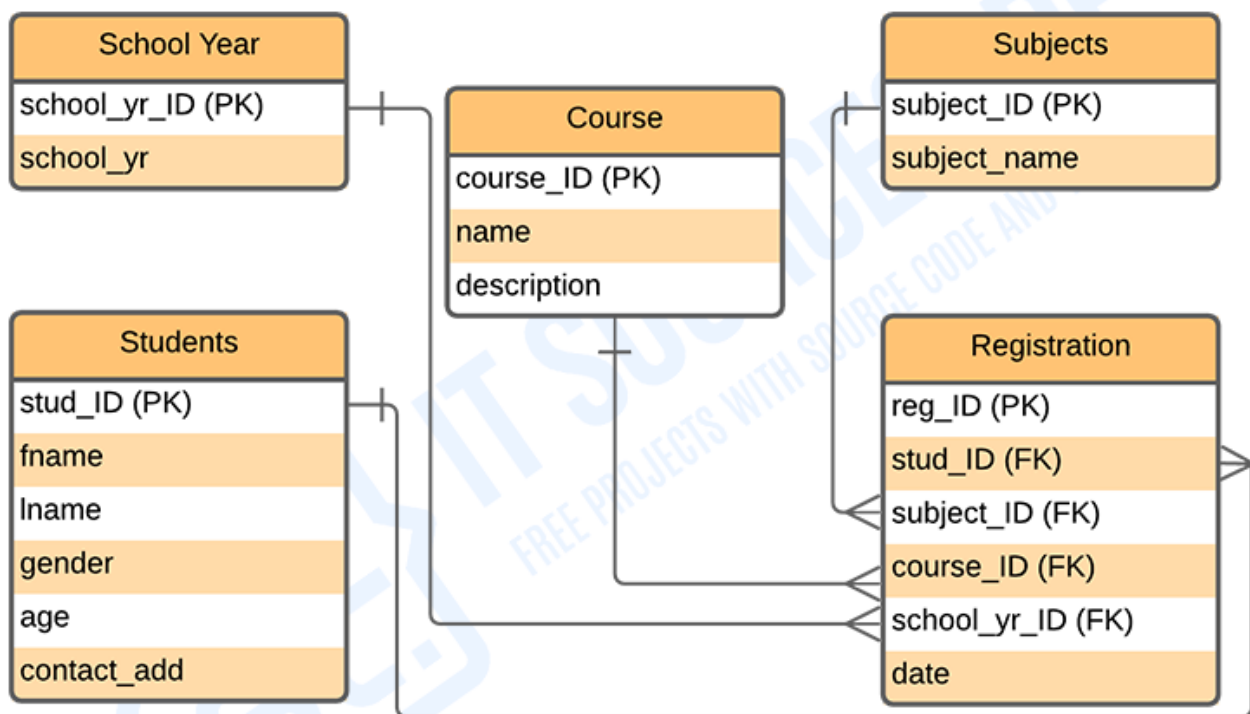
Student Registration System Features:

- **Student Registration** - This means that the system can handle and secure the students' registration transactions including their information.
- **Student Information Management** - This feature plays a big role for the system because this gathers the important information of the students. This information will be used for determining the choices of the students and assigning them their subjects.
- **Manage Courses and Subjects** - This system stores the available or offered courses as well as subjects of a certain school. The system lets the student choose their desired course and saves up their information.
- **Transaction and Reports Management** - This feature will store the transactions made including their information and the reports of every transaction in the corresponding timetables.

ER Diagram for Student Registration System

       ER (entity-relationship) Diagram of Student Registration System shows the system entity relationships in each entity and their supposed functions in each relationship.

STUDENT REGISTRATION SYSTEM

ENTITY RELATIONSHIP DIAGRAM

Student Registration System ER Diagram

       Based on the image above, the **ER diagram for *this* System** is the entity of the **Student Registration system database**, which is presented by **tables**; school year, students, course, subjects, and registration. The tables are made to meet the

required specification of the system and provide much more specific details of each entity within the system.

Student Registration System ER Diagram Tables

These tables below provide the complete database table details such as **Field Name**, **Descriptions**, **data types**, and **character lengths**. Each of these tables represents the characteristics and the attributes of data storage. The **field** column presents the names of each database's attributes, the **description** column gives the complete thought of each attribute, the **type** column is their data type and the **length** are for their character lengths.

Table Name: Student

Field	Description	Type	Length
student_ID (PK)	Student ID	Int	11
fname	Student First Name	Varchar	255
lname	Student Last Name	Varchar	255
gender	Student Gender	Varchar	255
age	Student Age	Int	11
contact_add	Customer Contact	Int	11

Table Name: Course

Field	Description	Type	Length
course_ID (PK)	Admin ID	Int	11
name	Admin First Name	Varchar	255
description	Admin Last Name	Text	

Table Name: Subjects

Field	Description	Type	Length
subject_ID (PK)	Subject ID	Int	11
subject_name	Subject Name	Varchar	255

Table Name: School Year

Field	Description	Type	Length
school_year_ID (PK)	School Year ID	Int	11
school_year	Customer ID	Int	11

Table Name: Registration

Field	Description	Type	Length
registration_ID (PK)	Registration ID	Int	11
student_ID (FK)	Student ID	Int	11

course_ID (FK)	Course ID	Int	11
subjects_ID (FK)	Subjects ID	Varchar	255
school_year_ID	School Year ID	Int	255
date	Date	Date	

The tables given will be the basis for developers on how would they do the **student registration system database design**. It has the complete description of the database and they will put this into the program or data storage the same as the names given to each of the tables. They will create a database with the attributes given as well as the value of each attribute.