STUDENT ENROLLMENT SYSTEM

DESCRIPTION:

A **Student Enrollment System** is a digital solution designed to streamline the process of student registration, course selection, fee management, and academic tracking in educational institutions. The system replaces traditional paper-based enrollment with an automated, efficient, and user-friendly interface, improving accuracy, accessibility, and administrative efficiency.

The primary goal of a Student Enrollment System is to simplify and automate student admissions, reduce manual work, minimize errors, and provide real-time access to enrollment data. This system ensures a seamless experience for students, administrators, and faculty by centralizing student records and managing the entire enrollment lifecycle.

ENTITY RELATIONSHIP DIAGRAM(ERD).

Entities: STUDENTS, COURSES, ENROLLMENT, RECORDS

N:1

N:1

M:N

Record ID

Student ID

Courses ID

Enrollment ID

Grade

RECORDS

Enrollment ID

Student ID

Course ID

Enrollment Date

ENROLLMENTS

COURSES

Course ID

Course Name

Description

Credits

Duration

Student ID

Name

Date of Birth

Gender

Email

Phone Number

STUDENTS

LOGICAL DATA MODEL (LDM)

1. STUDENTS (Student ID ,Name, Date of birth, Gender, Email)
2. COURSES(Course ID, Course Name, Description, Credits, Duration)
3. ENROLLMENTS(Enrollments ,Student ID, Course ID, Enrollment date)

PHYSICAL DATA MODEL (PDM)

PK

PK

PK

Record ID

Student ID

Courses ID

Enrollment ID

Grade

RECORDS

Enrollment ID

Student ID

Course ID

Enrollment Date

ENROLLMENTS

COURSES

Course ID

Course Name

Description

Credits

Duration

Student ID

Name

Date of Birth

Gender

Email

Phone Number

STUDENTS

FK

FK

FK

FK

FK

PK

**DATA DICTIONARY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ENTITIES** | **ATTRIBUTE** | **DATA TYPE** | **SIZE** | **CONSTRAINTS** | **DESCRIPTION** |
| STUDENTS | Student ID | INTIGERS | 10 | PRIMARY KEY not null | Student identification number |
| F Name | STRING | 100 | null | First name |
| L Name | STRING | 100 | null | Last name |
| Date of Birth | STRING | 30 | not null | Date of Birth |
| Gender | STRING | 40 | not null | Gender |
| Email | STRING | 40 | not null | Email |
| COURSES | Course ID | INTIGERS | 20 | PRIMARY KEY not null | Courses identification number |
| Course Name | STRING | 100 | not null | Courses name |
| Description | STRING | 100 | not null | Description |
| Credits | INTIGERS | 10 | not null | Credits |
| Duration | INTIGERS | 10 | not null | Duration |
| ENROLLMENTS | Enrollment ID | INTIGERS | 11 | PRIMARY KEY not null | Enrollment identification number |
| Student ID | INTIGERS | 11 | FOREIGN KEY not null | Student identification number |
| Course ID | INTIGERS | 11 | FOREIGN KEY not null | Courses identification number |
| Enrollment Date | STRING | 40 | not null | Enrollment |
| RECORDS | Record ID | INTIGERS | 100 | PRIMARY KEY not null | Records identification  number |
| Student ID | INTIGERS | 17 | FOREIGN KEY Not null | Student identification number |
| Courses ID | INTIGERS | 40 | FOREIGN KEY Not null | Courses identification number |
| Enrollment ID | INTIGERS | 12 | FOREIGN KEY not null | Enrollment identification number |
| Grade | STRING | 20 | Not null | grade |