Tyler Beaulieu, Logan Willans
CS5200, Fall 2024
November 7, 2024

Final Project: Charter School Admissions
Milestone 0 – Diagrams

Objective: Create an ER diagram and Schemas depicting the layout of your final project. List all users that will be using your product and what roles they will have.
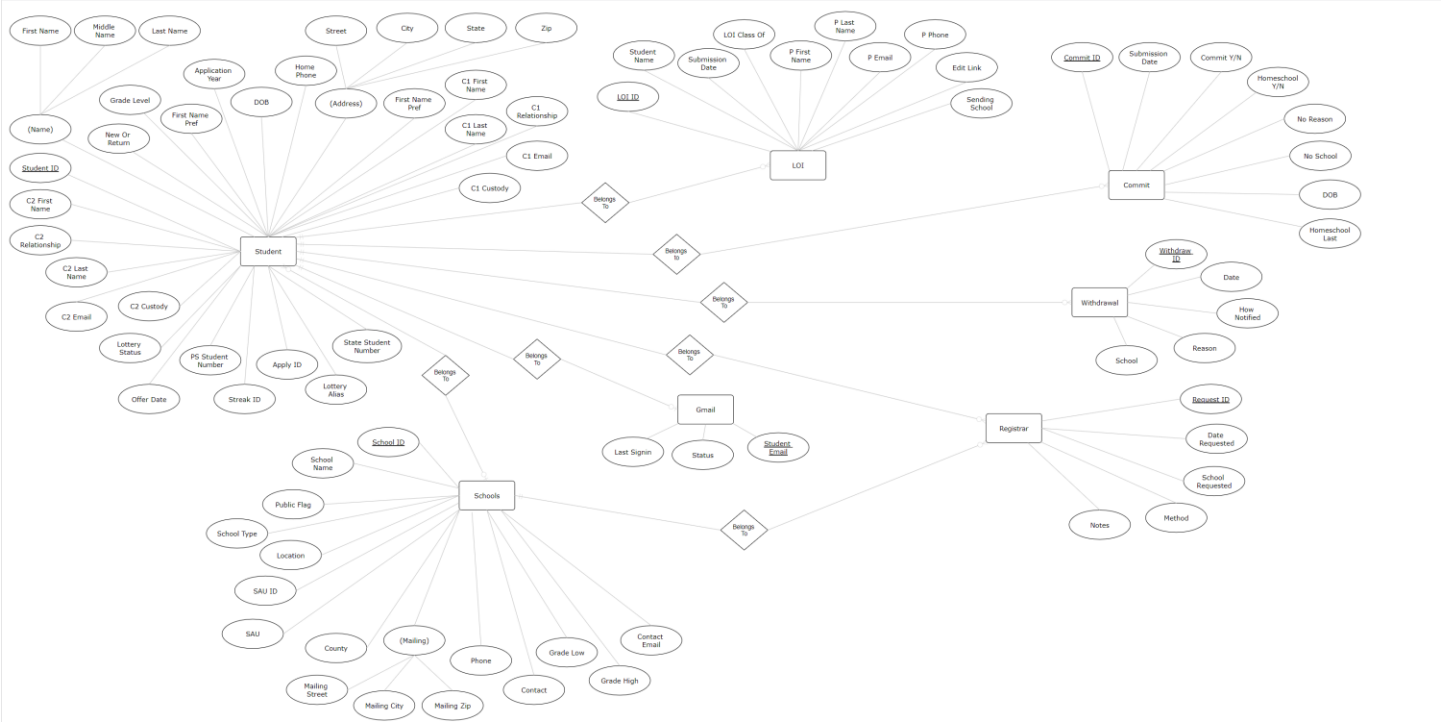
Users who will be using the product and their roles:

Roles:
Administrators – Access to editing profiles, updating application status, creating new users.
Users – See application status and demographic data. Limited editing access to registrar page.

Users and their roles

Administrators	Users
- Enrollment Manager - IT Manager - Front Office Manager	- Executive Director - Principal - Assistant Principal - Guidance Counselors - Director of Special Education - Special Education Teachers

ER Diagram

Schemas

Student

Student_ID
First_Name
Middle_Name
Last_Name
First_Name_Pref
Application_Year
NewOrReturn
Grade_Level
Home_Phone
DOB
Street
City
State
Zip
C1_First_Name
C1_Last_Name
C1_Relationship
C1_Custody
C1_Email
C2_First_Name
C2_Last_Name
C2_Relationship
C2_Custody
C2_Email
Lottery_Status
Offer_Date
PS_Student_Number
Streak_ID
Apply_ID
Lottery_Alias
State_StudentNumber
LOI_ID (FK)
School_ID (FK)
Commit_ID (FK)
Student_Email (FK)

LOI

LOI_ID
Student_Name
Submission_Date
LOI_ClassOf
P_First_Name
P_Last_Name
P_Email
P_Phone
Edit_Link
Sending_School
Student_ID (FK)

Schools

School_ID
School_Name
Public_flag
School_Type
SAU
SAU_ID
County
Location
Mailing_Street
Mailing_City
Mailing_Zip
Phone
Grade_Low
Grade_High
Contact
Contact_Email

Commit

Commit_ID
Submission_Date
Commit_YN
No_School
No_Reason
Homeschool_YN
Homeschool_Last
DOB
Student_ID (FK)

Withdrawal

Withdraw_ID
Date
How_Notified
School
Reason
Student_ID (FK)

Registrar

Request_ID
Date_Requested
Method
Notes
School_ID (FK)
Student_ID (FK)

Gmail

Student_Email
Status
Last_Signin

From	To	Max Cardinality	Min Cardinality	Explanation
Student	LOI	Many	Optional	Students can have an LOI, and may withdraw and reapply
Student	Schools	One	Optional	The student should have a sending school, but it may not be known early in the process.
Student	Commit	Many	Optional	Students can have a commitment, and may withdraw and reapply

Student	Gmail	One	Optional	Students are assigned one email upon acceptance
Student	Withdrawal	Many	Optional	Students withdraw from the process
Student	Registrar	Many	Optional	Multiple records requests may go out for one student
Commit	Student	One	Mandatory	Any commit must be assigned to one student.
Gmail	Student	One	Mandatory	Any email must have a student assigned to it.
LOI	Student	One	Mandatory	Any LOI must belong to one student
Registrar	Student	One	Mandatory	Any records request must belong to one student.
Schools	Student	Many	Optional	Any school can have zero to many students with it as a sending school
Withdrawal	Student	One	Mandatory	Any withdrawal must belong to one student.
Registrar	School	One	Mandatory	Any records request must be going to a school.
School	Registrar	Many	Optional	Any school may have none to many records requests