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Overview

Classroom Connect is a social media platform whereby students from all over the world can meet and share their scholarly experiences. The purpose of the platform is to help students gain insights on the next stages of their academic careers by connecting them with other students and alumni who have completed the programs they are interested in. As a forum where users can share firsthand experiences, *Classroom Connect* will allow students to research viable paths for their education and facilitate their preparations for their next academic endeavours.

Users begin by setting up an account, which only takes a name and email address. From there, they create their personal profiles. Profiles can include information such as academic experiences (previous and current), career interests, skills, awards, publications, completed courses and certificates, standardised tests, work experiences, and hobbies. Having completed their profile, users are granted full access to the platform and can begin interacting with other users. Interactions include adding other users to their network, posting updates, asking questions, upvoting or commenting on interesting posts, and searching for like-minded peers. Users can share content related to courses, program requirements, career paths, and extracurricular opportunities.

USE CASES

1. The application will allow students at any stage of their academic journey to connect and interact with alumni and current students from their current and target schools. Providing a platform to raise questions, get them answered and grow their network
2. Students will be able to load their personal, work and course related experience to the application for the benefit of other students
3. Students will be able to add posts, comment on posts, send personal messages and upvote the most helpful posts
4. Students will be able to view the profiles of alumni who got into their target schools and also look at the standardised test requirements for each of the programs
5. Students will be able to view alumni outcomes filtered by the program or the university. This will allow students to get a better view of their career progression before deciding on a school/program
6. Students will be able to search users based on their specific interests and/or awards to seek very specific and tailored guidance

Mission Statement and Objectives

To bridge the gap between students around the world, facilitate their academic journey, empower them to make the best decision for their careers, and build the future they desire.

-Develop a platform to enable past, present, and future students to connect and share their post-secondary experiences, enriching one another with helpful information.

-Establish a bond between users like high school students, undergraduate, and graduate students.

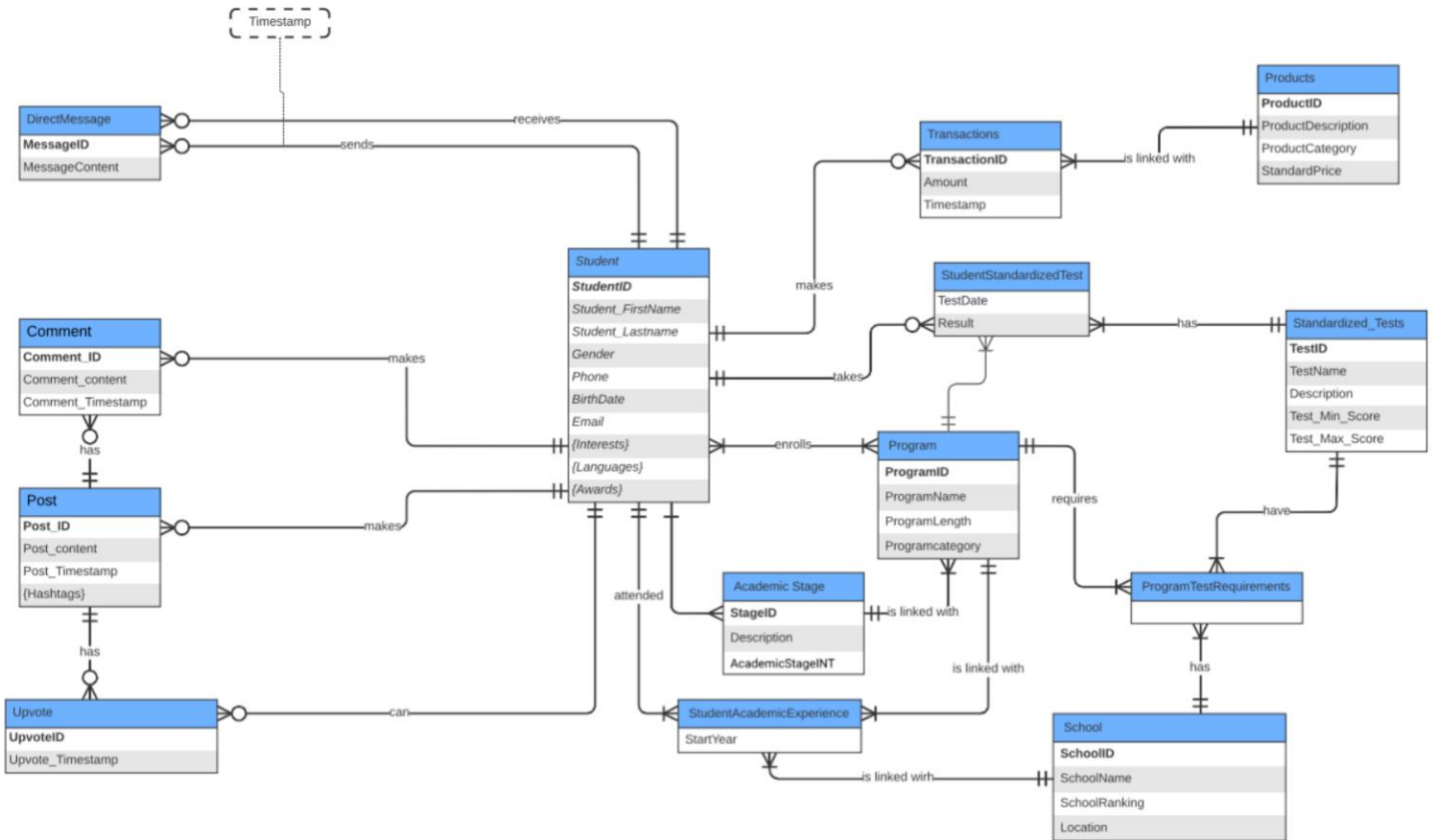
-Provide clarification with respect to university admission requirements, international requirements, and transfer credits.

-Share information about anticipated course materials, pre-requisites, and classroom workload.

-Offer career assistance to internships, future job opportunities and expected work environment.

-Provide clarification in regards to the list of activities to get involved in, school logistics, and academic atmosphere.

ERD



Data Dictionary

Description of Entities

Entity Name	Description	Aliases	Occurrence
Student	Contains information about the student.	Student	One student can have many relationships with several other entities discussed below.
Academic Stage	Contains information about students' academic stage; stage ID and description.	AcademicStage	One academic stage must have at least one program and at least one student.
Student Academic Experience	Contains information about the start year along with student ID, school ID, and program ID	StudentAcademicExperience	One school must be linked with at least one student academic experience. One student must have at least one student academic experience. One program must be linked with one student academic experience.
School	Contains information about students' school ID, school name, school ranking, and school location.	School	One school must require at least one program test requirement, and must be linked with at least one student academic experience.
Program	Contains information about program ID, program name and program length.	Program	Each program must have a standardized test and require at least one program test requirement. At least one student must enrol in one program.

StudentStandardizedTest	Contains information about test date and result.	StudentStandardizedTests	One program can have the same standardized tests, one student can take many standardized tests(or none). One standardized test must have at least one student standardized test.
StandardizedTest	Contains information about testID, test name, description, minimum score required, and maximum score required.	StandardizedTest	One standardized test must have at least one student standardized test. One standardized test must have at least 1 program test requirement.
Transactions	Contains information about the amount of the transaction as well as the date.	Transactions	One student can make many transactions (or none).
Products	Contains information about the products linked with the transaction, the product description, category, and price.	Products	One product can be linked with at least 1 transaction.
Direct Message	Contains information about message content between students.	Direct_Message	One student can send many direct messages (or none). One student can receive many direct messages(or none)

Comment	Contains information about comment content between students as well as the comment date.	Comment	One student can have many comments (or none) and one post can have many comments (or none)
Post	Contains information post content and post date.	Post	One post can have many comments (or none) and one student can have many posts (or none).
Upvote	Contains information about the date of the upvote.	Upvote	One post can have many upvotes, and one student can perform many upvotes.

Description of Attributes

Entity Name	Attributes	Description	Data Type	Nulls	Multi-valued	Derived	Default
Student	<i>StudentID</i>	Unique ID of a student	Varchar	No	No	No	None
	<i>Student_FirstName</i>	Student's first name	Varchar	No	No	No	None
	<i>Student_Lastname</i>	Student's last name	Varchar	No	No	No	None
	<i>Gender</i>	Gender of student	Varchar	Yes	No	No	None
	<i>Phone</i>	Student's phone number	Varchar	Yes	No	No	None
	<i>BirthDate</i>	Student's date of birth	Timestamp	No	No	No	None
	<i>Email</i>	Student's email address	Varchar	No	No	No	None
	<i>Interests</i>	Student's interests	Varchar	Yes	Yes	No	None
	<i>Languages</i>	Student's languages.	Varchar	No	Yes	No	None
	<i>Awards</i>	Student's awards.	Varchar	Yes	Yes	No	None

School	<i>SchoolID</i>	Student's school unique ID.	Varchar	No	No	No	None
	<i>SchoolName</i>	Student's school name.	Varchar	No	No	No	None
	<i>SchoolRanking</i>	The school's ranking.	Int	No	No	No	None
	<i>Location</i>	The school's location	Varchar	No	No	No	None
Program	<i>ProgramID</i>	Student's unique program ID	Varchar	No	No	No	None
	<i>ProgramName</i>	Program name	Varchar	No	No	No	None
	<i>ProgramLength</i>	The length of the program	Float	No	No	No	None
	<i>ProgramCategory</i>	Program category like law, engineering	Varchar	No	No	No	None
Academic Stage	<i>StageID</i>	Student's unique academic stage ID	Varchar	No	No	No	None
	<i>Description</i>	Description of academic stage	Text	No	No	No	None
	<i>AcademicStageINT</i>	Integer representation of	Int	No	No	No	None

		academic stage					
StudentAcademicExperience	<i>StartYear</i>	The start year of the academic experience	Year	No	No	No	None
StudentStandardizedTest	<i>TestDate</i>	The test date of a standardized test	Timestamp	Yes	No	No	None
	<i>Result</i>	The test result	Int	Yes	No	No	None
Standardized Tests	<i>TestID</i>	A standardized test's unique ID	Varchar	No	No	No	None
	<i>TestName</i>	The test's name	Varchar	No	No	No	None
	<i>Description</i>	The test's description	Text	No	No	No	None
	<i>Min_Score</i>	The minimum score for the test	Int	No	No	No	None
	<i>Max_Score</i>	The maximum score for the test	Int	No	No	No	None
Transactions	<i>Transaction ID</i>	A student's unique transaction Id	Varchar	No	No	No	None
	<i>Amount</i>	Amount spent on a	Float	No	No	No	None

		certain transaction					
	<i>Timestamp</i>	A transaction's date	Timestamp	No	No	No	None
Products	<i>ProductID</i>	The unique product ID linked with the transaction ID	Varchar	No	No	No	None
	<i>ProductDescription</i>	The description of the product	Varchar	No	No	No	None
	<i>ProductCategory</i>	The category of the product	Varchar	No	No	No	None
	<i>StandardPrice</i>	The product's standard price	Float	No	No	No	None
Direct Message	<i>MessageID</i>	The message ID of a direct message sent by a student	Varchar	No	No	No	None
	<i>MessageContent</i>	The content of the message	Text	No	No	No	None
Comment	<i>CommentID</i>	The comment ID of a comment made by a student	Varchar	No	No	No	None

	<i>Comment_content</i>	The comment content	Text	No	No	No	None
	<i>Comment_Timestamp</i>	The comment date	Timestamp	No	No	No	None
Post	<i>PostID</i>	The post ID of a post made by a student	Varchar	No	No	No	None
	<i>Post_content</i>	The post's content	Text	No	No	No	None
	<i>Post_Timestamp</i>	The post's date	Timestamp	No	No	No	None
	<i>Hashtags</i>	The post's hashtags	Varchar	No	Yes	No	None
Upvote	<i>UpvoteID</i>	The ID of an upvote performed by a student	Varchar	No	No	No	None
	<i>Upvote_Timestamp</i>	The date of the upvote	Timestamp	No	No	No	None

Relational Schema

Legend	
Red	PK
Red + Underline	PK and FK
Green	FK
Tables	Columns
AcademicStage	<u>StageID</u> , Description, AcademicStageINT
Student	<u>StudentID</u> , FName, LName, Gender, Phone, BirthDate, Email, <u>HighestAcademicStage</u>
School	<u>SchoolID</u> , SchoolName, SchoolRanking, Location
Program	<u>ProgramID</u> , ProgramName, ProgramLength, <u>StageID</u> , ProgramCategory
StandardizedTests	<u>TestID</u> , TestName, Description, Min_Score, Max_Score
ProgramTestRequirements	<u>ProgramID</u> , <u>SchoolID</u> , <u>TestID</u>
StudentStandardizedTests	<u>TestID</u> , <u>StudentID</u> , <u>ProgramID</u> , TestDate, Result
Languages	<u>StudentID</u> , LanguageID, Description, Proficiency
Interests	<u>StudentID</u> , InterestID, Category
StudentAcademicExperience	<u>StudentID</u> , <u>SchoolID</u> , <u>ProgramID</u> , StartYear
Posts	<u>PostID</u> , Date, Content, <u>StudentID</u>
PostHashtag	<u>PostID</u> , Hashtag
Upvote	<u>PostID</u> , <u>StudentID</u> , <u>UpVoteID</u> , Upvote_Timestamp
Comment	<u>PostID</u> , <u>StudentID</u> , <u>CommentID</u> , Comment_content, Comment_Timestamp
DirectMessage	<u>MessageID</u> , MessageContent, DM_Timestamp, <u>Sender</u> , <u>Receiver</u>
Products	<u>ProductID</u> , ProductDescription, Category, StandardPrice
Transactions	<u>TransactionID</u> , <u>StudentID</u> , <u>ProductID</u> , Amount, TransactionsTimestamp
Awards	<u>StudentID</u> , Award, Date, Amount