DATABASE TABLES SCHEMA

NOTES:

- **The naming convention is camelCase.**
- **All purple variables are countable (substitutes for arrays); front-end should expect functions to retrieve count and actual list.**
- **Blue boxes are notes for the front-end team; red for the back-end team.**
- **The first field is the unique identifier for that item.**
- **Dotted arrows are the same variable for one instance of the item.**

minimum 1, maximum 2, enforced in front-end

generated by front-end operations before sending to database

APPLICATIONS TABLE

username (String) (unique)	firstName (String)	lastName (String)	year (String) (1 of 4 options)	gpa (float)	grade320 (char)	reference (String) ('firstname lastname, email')	attachment (String) (S3 link)

Name will be asked for during registration. This name can be retrieved from here to greet user.

STUDENTS TABLE

username (String) (unique)	conflict (int = section ID)	ranking (int = 1, 2, ...)	sectionRanked (int = section ID)	matched (int = section ID)

So, if a student prefers section 7 and then section 8, the pairings would be (1, 7), (2, 8).

Send out notification when this value changes from -1 to section ID, since the student is now matched.

USERS TABLE

username (String) (unique)	password (String)	type (Boolean; 0 = student, 1 = professor)	firstName (String)	lastName (String)

PROFESSORS TABLE

username (String) (unique)	section (int = section ID)	ranking (int = 1, 2, ...)	appRanked (String = student's username)

MATCHINGS TABLE

section (int = section ID)	username (String = student's username)

SECTIONS TABLE

id (integer) (unique, taken from schedule)	day (String)	time (String)	username (String = Professor's username)	applicant (String = student's username)	capacity (int)	numEnrolled (int)

Retrieve capacity and numEnrolled from here.

Update numEnrolled as the matching algorithm progresses.

Used to be String = Professor's name. Simplifies back-end operations. Front-end will have function to retrieve instructor's name when displaying section info.

Every student who has submitted application choosing this section. Update with every submission.