# Design

I think I need to have 3 tables all related to each other

A table for teachers

A table for classes

A table for students

The teacher tables will just have their personal information and their unique IDs

The classes table will have a list of classes, their unique class IDs and also the teacher’s name and teacher’s unique ID automatically put into the table

The students table will have all the students data and also their class name and unique class Id and even the teachers name and teachers unique ID. Or maybe just unique class ID and unique teachers ID.

In this way, when a teacher logs into the main page they can start creating classes. These classes will start to populate the classes table which will always check if the class unique ID already exists and it will also insert the teacher’s name and the teacher’s unique ID into the class by using the session information.

As the teacher starts creating classes, they can also start adding students. They will enter the student’s information and happy face and token number. The form will also automatically input the class name and class unique ID based on which class the teacher has selected.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Teachers | | | | |
| Teacher Name | Teacher UID |  |  |  |
| Mark | Markymark |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Classes | | | | |
| Class name | Class UID | Teacher Name | Teacher UID | Number of students |
| Canary | Canary01 | Mark | Markymark |  |
|  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Students | | | | | | |
| Student Name | Student UID | Teacher Name | Teacher UID | Class Name | Class UID | Age, gender, tokens, etc |
| Flatley | Flatley01 | Mark | Markymark | Canary | Canary01 |  |
|  |  |  |  |  |  |  |

# Process

Step 1: Sign up as a teacher.

Step 2: Log in to your teacher’s page

Step 3: Create classes as needed (this will add more classes to the classes table).

Step 4: Create new students as needed (this will add more students the students table).

Step 5: Add tokens to the students accounts

# Questions

## But what about a student who has multiple classes?

Well.. for the purposes of this bank.. all the students only have 1 class… so that shouldn’t happen. But in the case that the student have more than one class, then they can be considered mutually exclusive for now..?

## Will there be problems when all the tables get massive?

Well one way we minimize mistakes is by using session data to fill in the teacher’s name and uid automatically whenever a class is created. And the same when a new student is created, it will automatically include the students teacher based on the session, and which class based on which class the teacher has selected at the top of the sign up new student form.