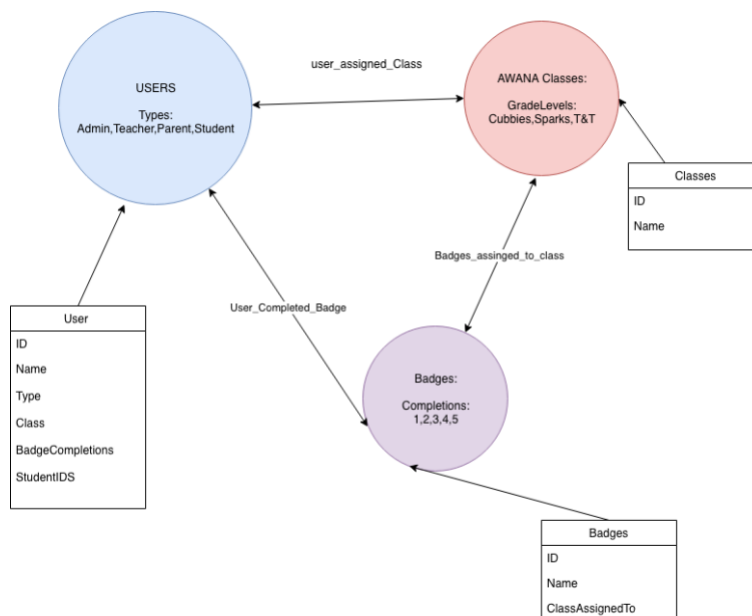


Design: Database



Technology

I am using neo4j a graph database it's a newer technology which is easier to set relationships naturally in your data scheme. Traditional relationship database is good but has some restrictions when you start growing your relationships with a graph database it becomes easier to scale.

Data Schema High level

AWANA tracker will have a USER Node with admin, teacher, student types. An AWANA Class node with class level cubbies, sparks, t & t.

A Badge completions node.

Node Details

USER node will have properties of id: integer, name: string, type: string, class: sting, studentID: string, badges: string, age: integer. The id will have an integer value tied to the user the name is the full name of the student; type will be a string with one type that could equal admin, teacher, student, parent. The studentID will be tied to a parent to review their child's attendance and badge completions. The class will be assigned to a user if it's a teacher or student. Badges will be a list of names of badges students completed. The age propriety is the age of the student. The CLASS node will contain properties of id: integer, name: string. The badge node will have properties of the id: integer and name: string: ClassAssignedTo: string.