**Hierarchy Diagram:**

Presentation Layer



Buisness Logic

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SQL Database



**Description:**

The architecture in this model uses a 3 Tier architecture. The presentation layer is a web app interface built using a React framework. The Buisness Logic layer is built using the Node JS framework. The SQL database is built using Microsoft SQL Server.

**Presentation Layer:**

**Purpose:** This layer is the public facing interface that allows a user to log in perform searches, apply for jobs or accept/reject applications.

**Associated Constructs:** Login, GTA profile page, Job Search Page, Admin Applicant View.

* **Login:** A login page which redirects to the Microsoft SSO login page, which then redirects back to either the applicant profile page or the admin applicant view.
* **GTA Profile Page:** A view for the applicant to add all of the relevant information to the application process that will allow them to one click apply to any available position.
* **Job Search Page:** A view that will allow the applicant to view all available job posting and search for them based upon various criteria.
* **Admin Applicant View:** A view that allows the Administrator to search for applicants to specific jobs based on various criteria.

**Buisness Logic:**

**Purpose:** This layer fills out and sends queries to the database and returns the results of the queries to the presentation layer.

**Associated Constructs:** NO CLUE

;akdsjf;laskjdf;alkskdjfa;sldkjff;alsdkfja;sldkfj;alsdkjf

**Database:**

**Purpose:** To store data regarding jobs, classes, applicants, and applications, and to return filtered results based on parameterized queries.

**Associated Constructs:** Students, Classes, Jobs, Job Requirements, Applications, Classes Taken

* **Jobs:** A table to store a list of jobs associated with a specific class, and the number of positions available.
* **Students:** A table that stores general information about applicants.
* **Classes:** A list of classes that are available to take or required to take for a job.
* **Job Requirements:** A list of classes required to take to apply for a job.
* **Applications:** A list of what jobs a student has applied to and what their application status is.
* **Classes Taken:** A list of classes that each student has taken.

Graphical user interface, diagram

Description automatically generated