**Software Modules and Architecture**

There are three key software modules along with two optional software modules that will exist within the project. The key software modules consist of content, accounts, and navigation while the two optional modules consist of followers and admin. The architecture of the project is congruent to a typical three-layer architecture that is utilized in many web applications. An illustration of the architecture can be seen as follows:

A diagram of a software process

Description automatically generated

With this architecture, a user directly interacts with the presentation layer which utilizes the application layer to display or manipulate the data at the data layer. This project will be coded in React JavaScript for the presentation layer, .Net 6 (C#) for the application layer, and Microsoft SQL Server for the data layer.

**Use Cases**

The desired scope for the project covers the use cases for readers and/or reviewers to browse, read, post, edit, and delete reviews. Also, included within the scope is the ability for these users to register to the website and login to their accounts. These two branches of use cases serve as the main intended functionality of the application. If the allotted project time permits, optional requirements include providing UI for potential admin to easily manage user accounts and reviews, as well as implementing a “following” system so users can easily see the most recent reviews written by other users that they follow.

A screenshot of a computer

Description automatically generated

**Database Schema**

In scope of the project there are only four tables that are required for the database schema. These include Game, Genre, Review, and User. If the optional requirements are to be met, the User table would require a new field to determine whether the user is an administrator, and a new “Follow” table would be required to hold the associated user relationships. As a note, the primary key of the Follow table would be a composite key of the two fields to prevent multiple occurrences of the same user to user association.

A screenshot of a computer

Description automatically generated