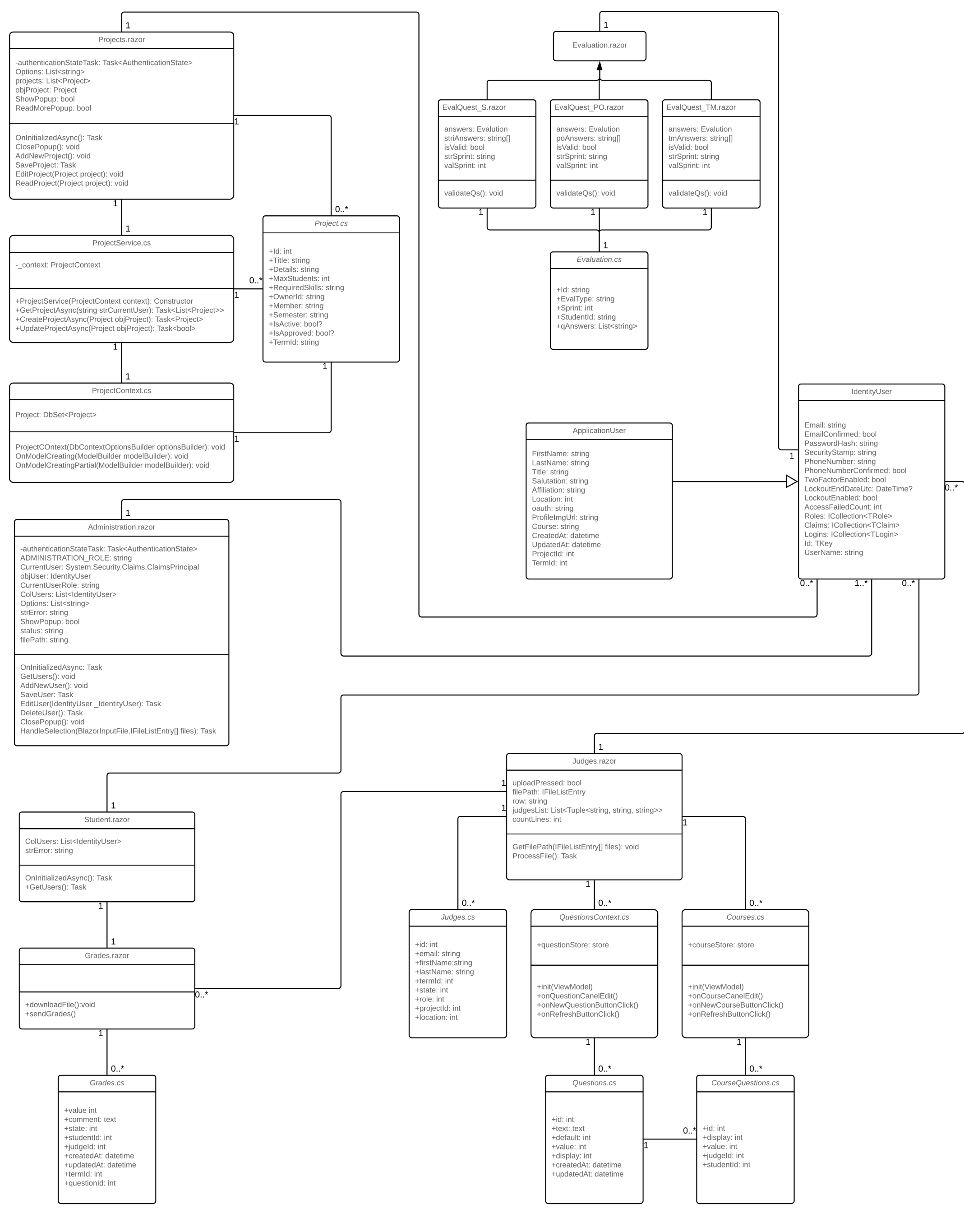


Vertically Integrated Projects

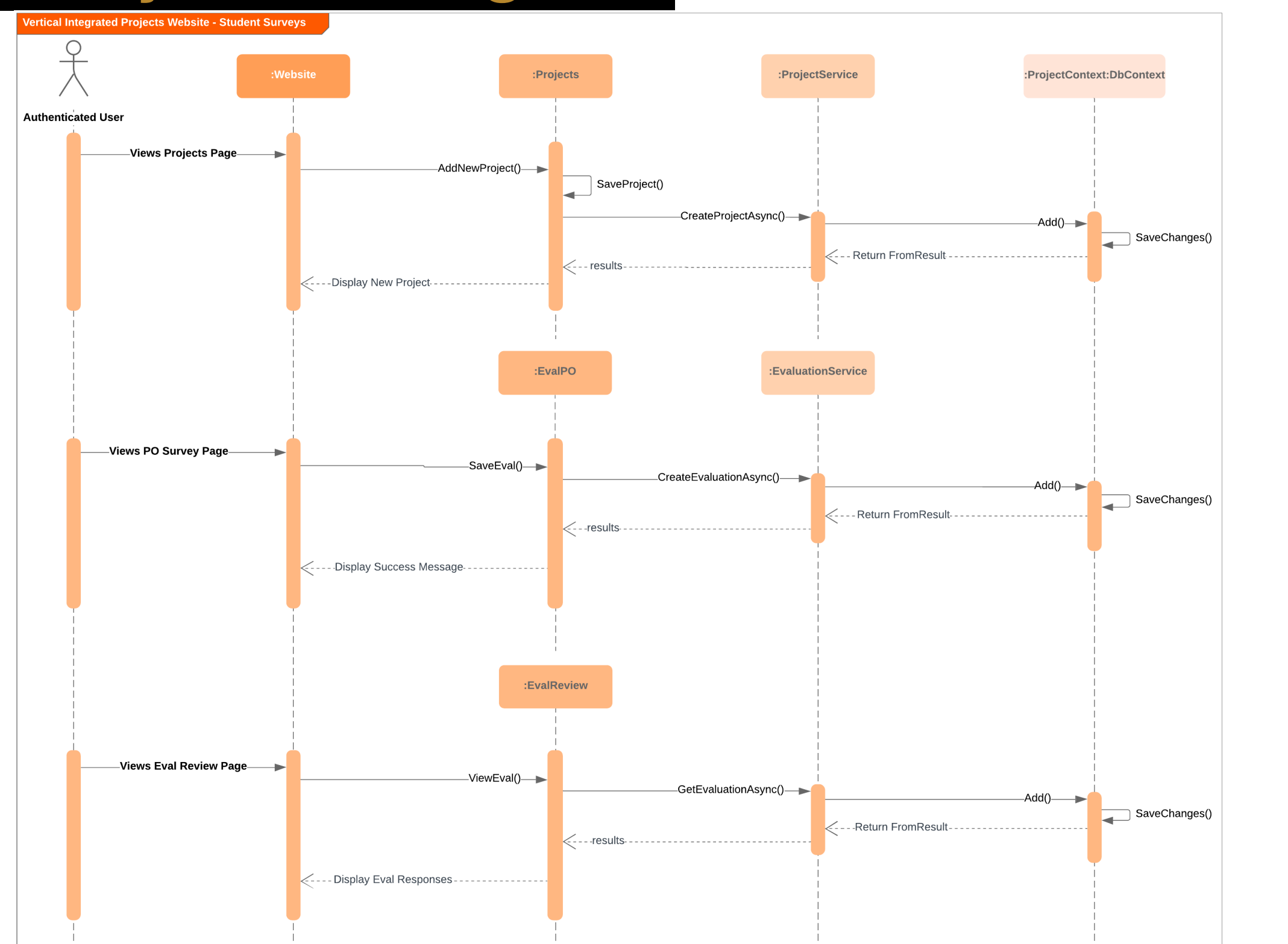
Student: Gersch Schiff, Florida International University

Mentor & Instructor: *Dr. Masoud Sadjadi, Florida International University*

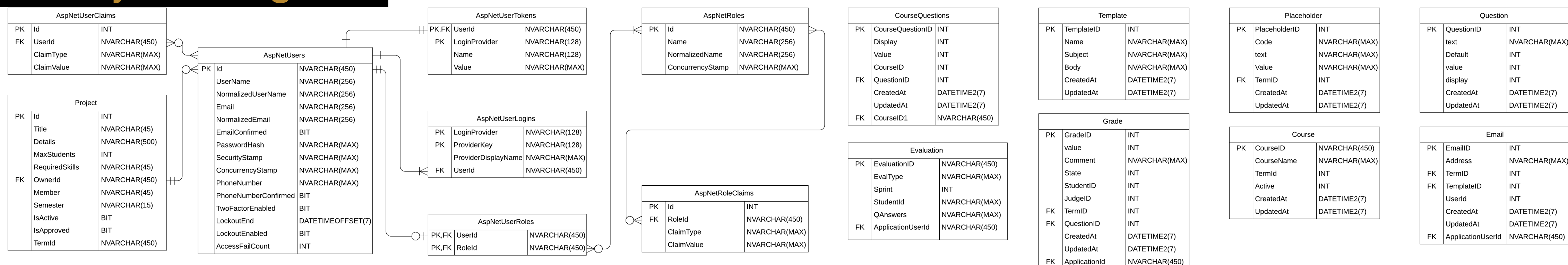
Implementation



System Design



Object Design



Problem

- We are working on this project to fill a need for FIU to host senior projects, and manage the students, faculty, and product owners.
- The previous version of this project was built with its database on the MongoDB platform, although the project was stable & deployable, the product owner felt the security built into the database system did not meet today's standards.
- Some features were difficult to accomplish due to the collaboration needed with other teams that were responsible for database creation and modifications.

Requirements

- To begin our project we were first required to successfully compile, build and run the previous version of the project. We learned how to access and work from FIU's Ubuntu servers through SSH and then we had learn to manage the previous version's MongoDB database with its proper NPM and NODE framework in order to run systems tests on the client side.
- Once we completed all the testing on the previous system, we agreed on rebuilding the project from scratch. We created a new Database with the Entity framework and used the .NET Core environment with Blazor and Razor components along side the C# programming language.
- Next, we focused on providing a standard way to visualize the design of our new system with a database schema and few Unified Modeling Language diagrams, such as a database relationship diagram, an entity relation diagram, a use case diagram, and a sequence diagram.

References

- Below is a general architectural view of our project. It specifies all the tables and fields in our database. It also illustrates some of the relationships between the tables.
- The Implementation section illustrates the class diagram model. It lists the variables used in our projects and how classes relate with each other.
- In the System Design section is our sequence diagram model that shows a graphical representation of an authenticated user logging into the website, going to the project page and adding a new project. Then, filling out a Product Owner evaluation survey. And finally, reviewing the evaluation survey responses.

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Current System

