

## **Diagram Descriptions**

### **Use Case Diagram: Plan-It**

The chart showcases a complex but essential Use Case Diagram that I was in charge of creating for a significant project. The idea revolves around a smart-planner application that aids students each semester in determining what courses to take next and what is relevant based on their major.

To give a bit more context, Plan-It targets university students to help plan their courses in a centralized platform instead of going through various links and platforms.

Plan-It utilizes the system for digitalizing the course catalog. It leverages machine learning and artificial intelligence that will lay out the central path of all courses, structure around prerequisites, and updates it as one progresses.

### **Systems Analysis and Design: UniFind**

For my Systems Analysis and Design II class, I created a UML diagram for my group project. My task was to showcase a diagram representing how the data would flow if we developed our application idea. The premise of the application is a social application that helps bring students together socially by grouping them into their respective majors by category across all schools on campus. Therefore, it would help “break the ice” between students who mainly have a hard time socializing after getting back to campus after covid.

### **Entity Relationship Diagram: Library Database System**

I had the privilege to work with fantastic team members on a semester-long group project. I contributed to creating a Library Management Database System for my Database Systems and Design I class. The first step of our project was to brainstorm a system and then diagram it, as shown in the image, using Crow’s Foot Notation.

After creating the Entity Relationship Diagram, we constructed our SQL Script File to upload it into SQL Oracle Live to run queries.

I learned the importance of conceptualizing diagrams and working with a group through an iterative process. I also realized that going through a creative process is much more abstract than working directly with logical systems. Working with a team of individuals is extremely important, specifically when kickstarting a new project.

### **Wireframe Design: Personal Blog**

Before building a blog website, I created a simple but effective wireframe design that showcases where the elements will be structured, expected functionalities, and behavior.

### **Sitemap Design: Personal Blog**

In addition to the wireframe, I designed a sitemap to help understand and provide information on my blog's relevant pages for better organization and to represent hierarchy and navigation flow.