

## **Class Diagram**

This class diagram was created for a private website dedicated to men's basketball at the University of Louisville. It was derived using verb-noun analysis. This method analyzes use cases to create attributes from nouns and methods from verbs. The relationships between each class in the diagram helps to illustrate how many attributes and methods are associated between them. Each class is composed of attributes (characteristics) and methods (actions that the object can perform). The two main classes in this diagram are the Website Users (Players, Administrators, and Staff) and the Home page. The Administrator is responsible for managing various aspects of the website, including editing website pages, managing roster, creating schedule, and updating statistics. The players can interact with all the different pages and content on the website on a surface layer, and have more in depth access to their own personal data. Staff have access to all pages and content on the website, however, they are only able to add, edit, or delete data pertaining to their division(Nutrition, Lifting, etc). The Homepage is the center of all navigation and is the landing page for users once they log-in. All users must flow through the homepage so its functionality is of utmost importance.

