Redhawk Rentals

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Description

Redhawk Rentals is a web application for sports equipment rental, which allows users to rent items, manage their rentals, and search the catalog of equipment.

Features

- Displays a list of all equipment currently in the catalog
- Allows users to rent items individually
- A user overview page which displays the current user's list of rented equipment
- Search functionality to search for items in the catalog

Planning - User Stories

Inspired by my time at SEMO's Rec Center as a student employee, Redhawk Rentals aims to create a better equipment rental solution than the pen-and-paper system we utilized, which grew tedious and unorganized.

Through the application, users can access the entire equipment catalog as well as their current list of rented equipment easily.

Planning - Database

The Redhawk Rentals database contains tables for registered users, equipment categories, and equipment items. The table of equipment items includes a column which associates the item with the correct category.

The database also contains a "user-rentals" table, which associates rented items with the ID of the user renting them from the users table.

Technology Stack

- Languages: Java, HTML
- IDE: IntelliJ IDEA
- Framework: Spring Boot
- Template engine: Thymeleaf
- Database engine: PHPMyAdmin, MySQL Server Database
- Other libraries or components: Bootstrap CDN

Demo

What I Learned

- Much more of how to utilize the features built into frameworks like Spring Boot
- The advantages (and disadvantages) of using pre-made, openly available resources like Bootstrap, and how to work around their limitations
- How to refer to resources that are already at my disposal, such as documentation and existing projects, to solve problems that arose

What's Next

- User validation/login and admin functionality!
- Extra search options (by category, availability, quantity)
- Text message integration through Twilio's API - registered users will be able to receive periodic notifications with their rental overview.