

SE/ComS319 Construction to User Interfaces

Spring 2024

Midterm Project Proposal

ReSportify

Aden Koziol - akoziol@iastate.edu

Ryan Holden - ryanhol@iastate.edu

February 25, 2024

Table of Contents:

[I. Introduction](#)

[II. Purpose of the Proposal](#)

[III. Goals and Objectives](#)

[IV. Project](#)

[V. Resources](#)

[VI. Future Work](#)

[VII. Final Comments](#)

Introduction

My name is Ryan Holden, and I am a sophomore in software engineering here at Iowa State. Through the activities and assignments offered in this class, I have begun developing my skills in html, css, JSON, and javascript.

My name is Aden Koziol and I am also a sophomore in software engineering at Iowa State. I have used JSON, js, css, and html both in and out of class.

We will need to use all these tools in conjunction with each other to create a professional website with an intuitive user interface.

Purpose of the Proposal

ReSportify is our idea for a website where people can order used equipment for a large variety of sports and activities. High end athletic equipment can get very expensive, so we want to provide a service for athletes to buy and sell old gear that is still in quality condition. We are going to design several different web pages that combine together to form a seamless shopping experience for the user. This proposal describes our plan to create the most efficient and easy to use layout for the website.

Goals and Objectives

Goal: create a website for the resale of used sports equipment by implementing the design steps outlined in the objectives below and in the project description.

Objectives:

- Create a homepage that neatly displays the different sports that we are selling equipment for. It should have a clean layout that is easy to understand, and each sport should have a button linking to its respective sports page.
- Create a sports page for each individual sport. Our objective for these pages is to offer any relevant equipment that a customer might need to participate in that sport. Each item offered on the page should have an accompanying image and a link to that product's item page.
- Item pages are the deepest level in this web page design. They will contain important information about the posted product as well as a longer description of the product and what the user should expect.

Goal: Create a seamless user experience that lets the customer browse the products in an easy and logical manner.

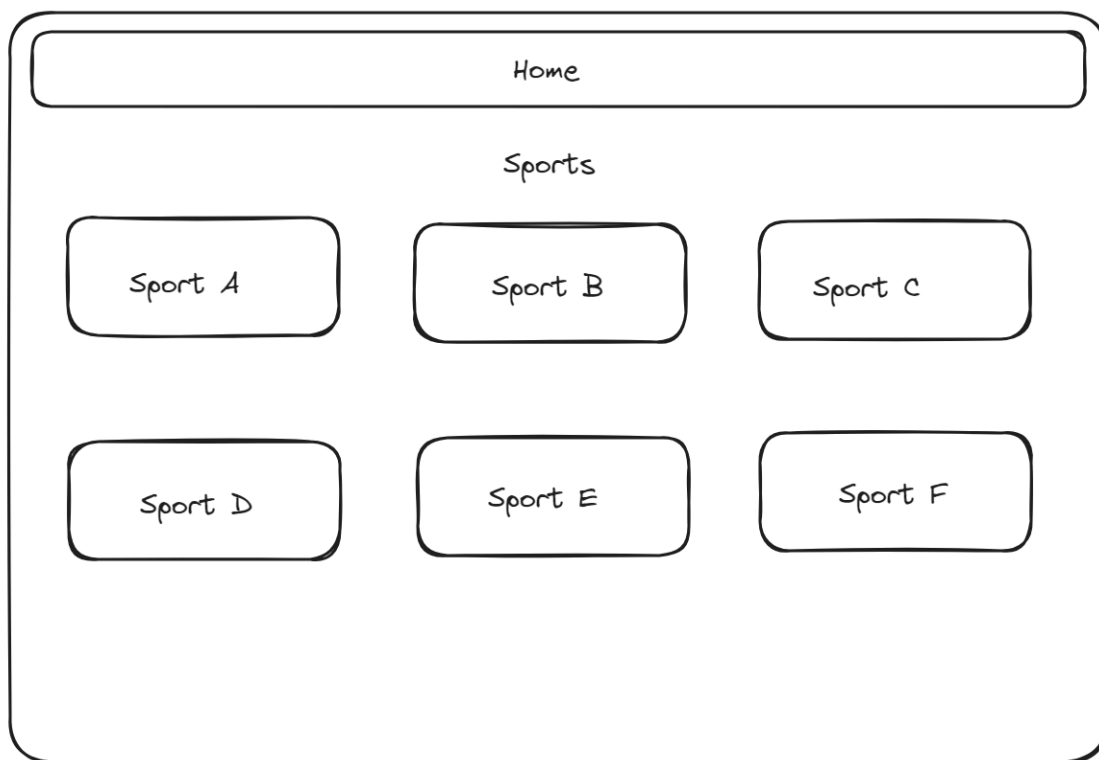
Objectives:

- Use HTML to build the different web pages as they are laid out above.
- Use CSS to style and format the pages and produce a polished final product.
- Use JSON files to store the data for all the different items offered on the site.
- Use JavaScript to create the cards that show the sports and equipment available.

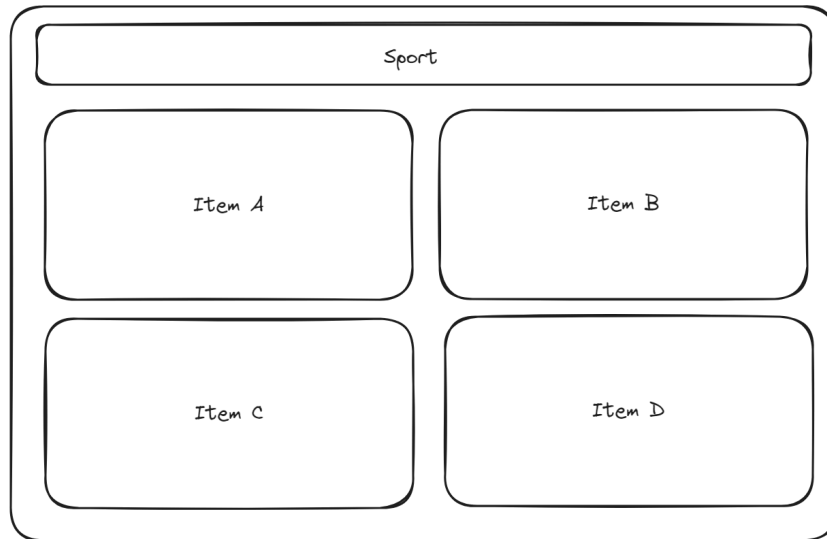
Project

ReSportify will provide a user-friendly interface for the purchase of used equipment. The website will feature a home page, several sports pages, and item pages for each product offered on the site. We designed the images below to illustrate how the different pages could look, but may make additional adjustments where necessary when creating them.

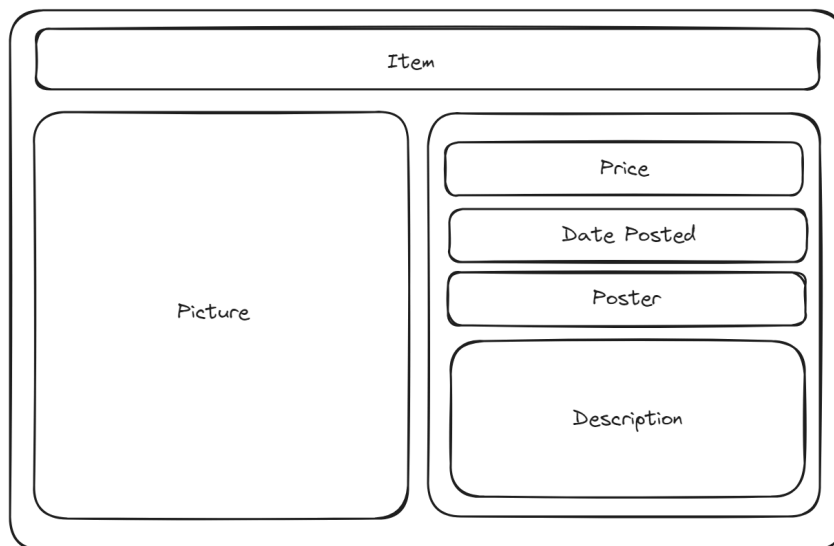
Home page: this illustration gives a simple homepage layout showing all the sports for which we are selling equipment. The user can then click on any sport's card to navigate to its page.



Sports page: This illustration shows a sports page with just 4 different pieces of equipment for sale. Each card will display the name of the equipment and its price. For pages with more than 4 items on sale a scroll bar will appear on the side to navigate between them. Clicking on item cards will bring up the full item page with the accompanying information.



Item Page: This diagram shows all the information that will be on display for a single item. Its page will feature the name of the product, a picture of it, the price, the date it was posted, the seller, and a brief description of the item for sale.



Resources

To maintain a streamlined workflow throughout our project development, we created a schedule to dedicate time each day to working on the project. This approach guarantees that we will consistently meet project milestones and objectives within the given timeframe. We primarily use Visual Studio as our coding environment and employ GitHub to collaborate and to easily share files.

Future work

There is a significant amount of room for improvement and future development. If we chose to expand on ReSportify for our final project, we could create new features that would enable users to place orders entirely online. For example, we might use databases to store user information such as name, contact information, and a shipping address. The data could be collected by having the user fill out a form on a new section of the website. Customers' payments could be processed through a trusted online service like PayPal. We might also implement a digital shopping cart system. Essentially, we have multiple ideas for the website and what we could improve. It provides a good opportunity for future development in case we decide to not use a new website idea for the final project.

Final comments

Thank you for taking the time to review our Midterm Project Proposal. We are ready to begin implementing our plan for this site if possible. Please feel free to reach out to us at akoziol@iastate.edu or ryanhol@iastate.edu. We see this project as a great learning opportunity, where we can enhance our skills in building functional websites. We aim to achieve meaningful results that not only benefit our team's progress but also align with our broader goals.