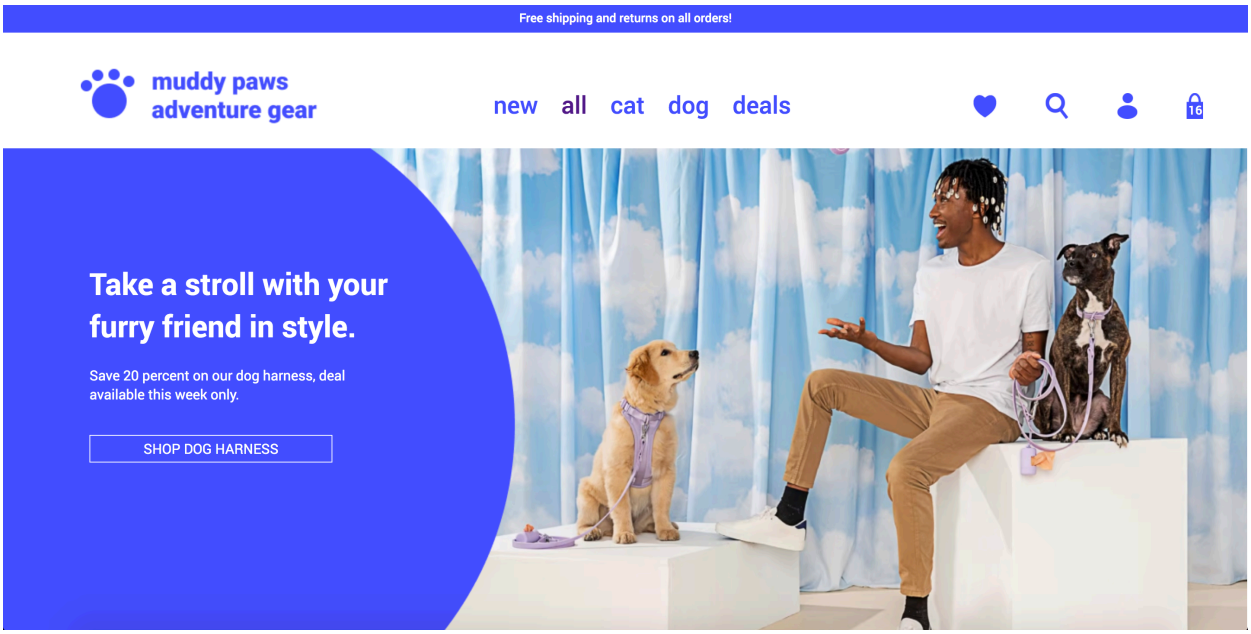
Christine Chen
PUI Section B
Deliverable 6B

*Note 1: I did the extra credit for the wishlist functionality. It is accessible by clicking on the heart icon on the top right.
*Note 2: The only item that can be added to the cart and wishlist is “dog harness.”

1. **Web prototype with Javascript**
   Link to live page: https://chenchristine123.github.io/homework_6B/homepage.html
   Link to GitHub repository: https://github.com/chenchristine123/chenchristine123.github.io

   Below is a screenshot of what it looks from my laptop’s browser dimensions in the case that the layout gets adjusted because of different browser dimensions.



2. **Reflection**
   While adding functionalities to my website with Javascript, I ran into a few issues along the way, but was able to solve them in the end through several trials and errors. One issue that I ran into was that variables can’t be shared in all my different HTML files. To solve for this, I utilized a local storage, and because HTML stores data as separate storage, the data can’t run across all the different pages. This allow me to share variables on the different pages. Another issue that I ran into is that local storage can only store strings. To solve for this issue, I learned to use JSON.stringify to turn data into string, and use JSON.parse to retrieve the data when needed. At one point, I was also confused on how to remove a specific item from an array. After thinking for a bit, I realized that I can solve for this by giving each cart item an ID that contains an index, which I can then use to pass this ID to the remove button function to remove the specific item from the array.

3. **Programming Concepts**

   A programming concept that I learned is “getElementByID.” I used this for multiple parts of my code. One example is I used this for the system to retrieve the ID of specific items in order to update the shopping cart of the page so that it displays accurate information. Another concept that I learned is “null.” Null is a meaningless value. I used null to compare it to the label of the items in my cart to see if the value exists. I also learned about the concept of local storage. I used local storage to store the information of the items in the shopping cart. To utilize local storage, I also learned about 2 other programming concepts- JSON.parse and JSON.stringify. Local storage can only store data in strings. Thus, I had to transfer the information of the item (color, size, amount) into strings for them to be stored in local storage. To update the local storage, I then used JSON.parse for the system to read the information of the string to update the information.