

Project Proposal

Overview

With the price increases in the whole economy, this website will allow consumers to compare prices from Walmart and Target. This will enable customers to compare prices easily without the need to perform multiple searches on multiple sites. The ultimate goal is to access information on products in a more efficient way.

Audience

The audience will be any person who wants to consult prices in these two stores.

Functions

Some functions will have a similar function based on who sends the data. It will be better to have the two codes separate since two different APIs will have different responses and therefore different treatments. Having them separate will also help maintain the code later on as APIs might change over time.

Search function: This function will be the most important one since it will be tight to two other functions to retrieve information from Walmart and Target.

Fetch Walmart products based on search: This function will take the information from the search function and make a GET request to Walmart based on what the user wants to search. It should return a JSON with the products that meet the search criteria.

Fetch Target products based on search: This function will use the information from the search function and perform a GET request to Target based on the user's preference. It should return a JSON with the products that meet the search criteria.

Fetch Walmart product details based on click: Once the products are displayed, and later a user clicks on a Walmart product to obtain more information, There will be a GET request to obtain the information on a specific product like price and specific features.

Fetch Target product details based on click: Once the products are displayed, and later a user clicks on a Target product to obtain more information, There will be a GET request to obtain the information on a specific product like price and specific features.

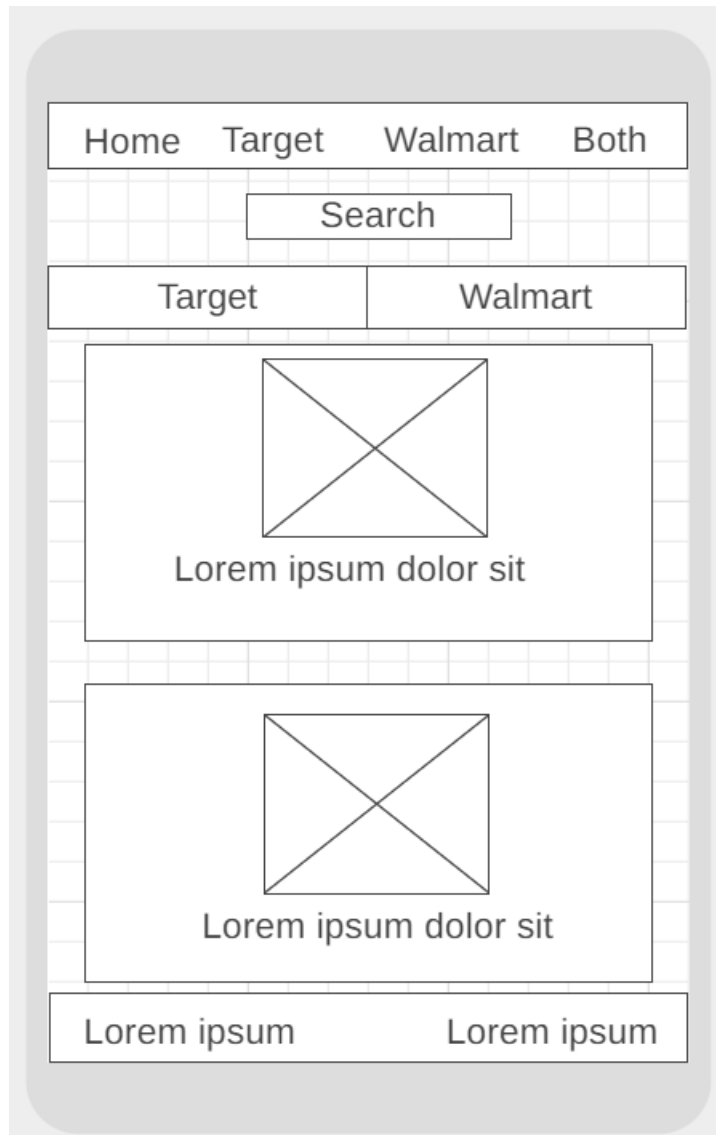
Display detail for Target products function: This function will create the template of the Target products detail and render it in the HTML file.

Display detail for Walmart products function: This function will create the template of the Walmart product detail and render it in the corresponding HTML file.

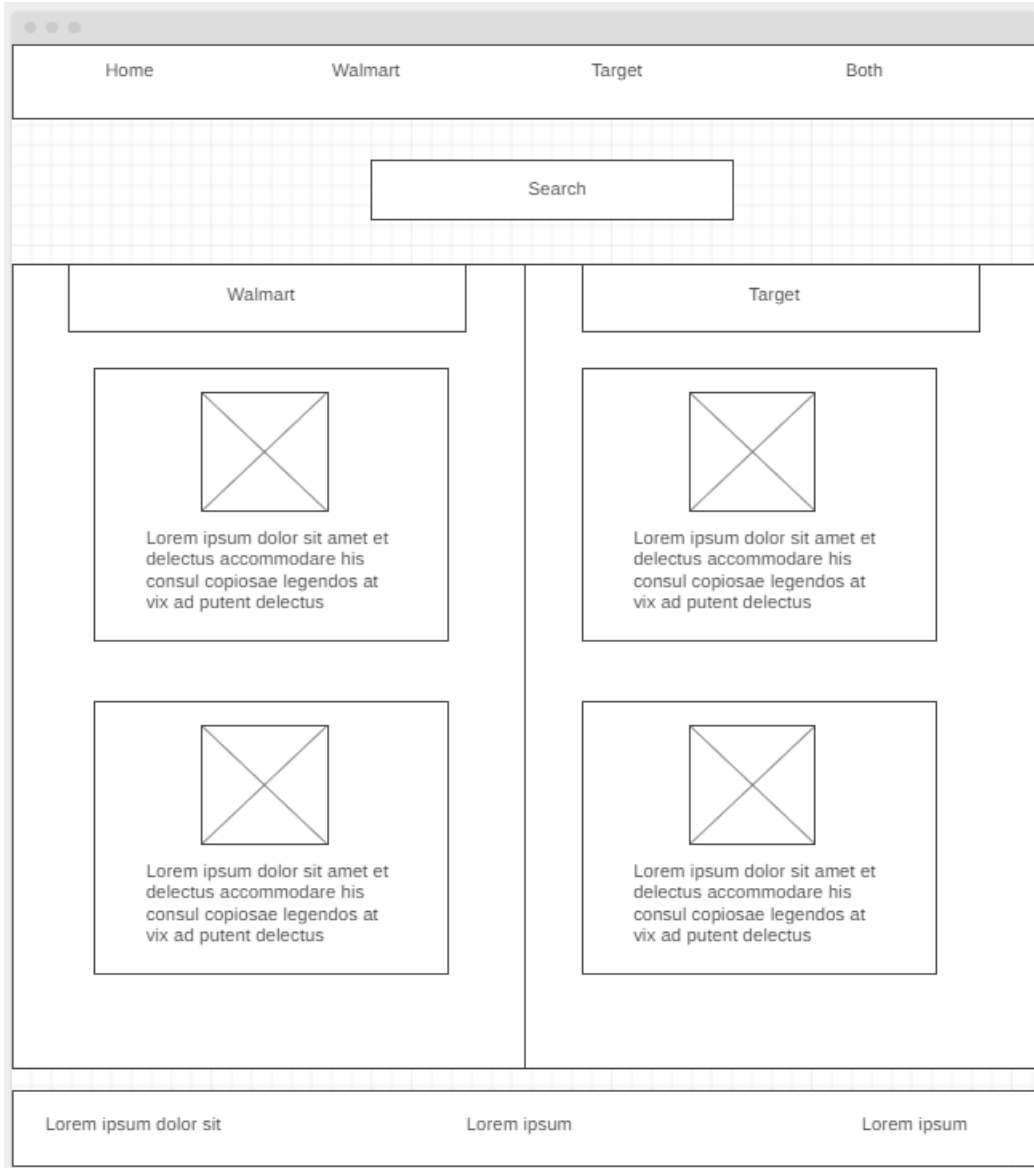
Display constructor function for Target products: this function will render the listings of matching Target products specified by the user

Display constructor function for Walmart products: this function will render the listings of matching Walmart products specified by the user

Wireframes



<https://wireframe.cc/pCJOu>



<https://wireframe.cc/ENu8AS>

API Sources

Each search in each API can bring hundreds of products in each response.

Walmart API:

<https://rapidapi.com/mahmudulhasandev/api/walmart-data>

Target API:

<https://rapidapi.com/MicroAPI/api/target-com-shopping-api>

Initial Module list

These are a few files that will need to be created but that does not mean that there won't be more

HTML

walmart-products.html

target-products.html

index.html

combined-search.html

product-detail.html

header.html

footer.html

Javascript

main.js

walmart-products.js

target-products.js

index.js

combined-search.js

product-detail.js

productListingWalmart.mjs

productDetailsTarget.mjs

productListingWalmart.mjs

productDetailsTarget.mjs

utilities.mjs

CSS

base.css

larger.css

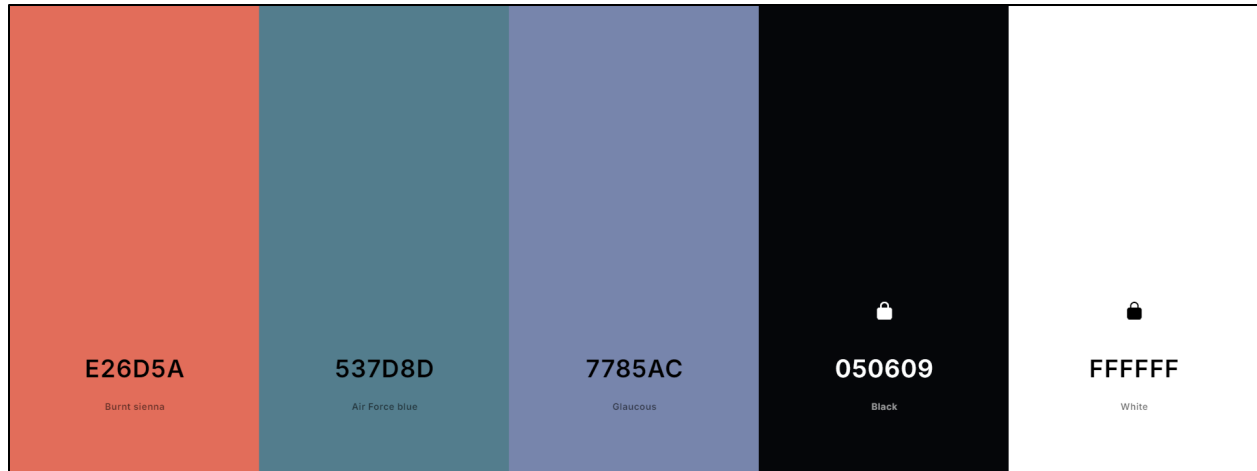
Other

.env

Styling

Colors

<https://coolors.co/e26d5a-537d8d-7785ac-050609-ffffff>



Typography

For this project, I will be implementing the font-family: Roboto, Poppins, Verdana, Tahoma, Arial

Roboto and Poppins will be obtained from Google Fonts and the rest are web-safe fonts

Schedule

Date	Milestone
16/10	Create the Walmart Page
19/10	Create the Target Page
23/10	Create a Combined Search page
26/10	Ensure quality in every view and submit

Trello Board

Trello Board Invite:

<https://trello.com/invite/b/670b5ed8f649e1c426b32125/ATTI95faf5730db950eb6d1a8e98f5e04df22352F340/product-comparison>

Trello Board

<https://trello.com/b/LpT8jfbs/kanban-template>