Project Framework

Requirements

- Objects
 - Website/Server
 - Electronic Devices (Computer/Phone)
 - Payment System
 - Price Related Data
 - Users/Developers
- Services
 - Shopping Cart
 - Search Bar
 - Price History
 - Price Trends
 - Price Drop Alerts
 - Product Review Service
 - Product Specs/Data
 - Easy To Use UI
 - Trending Products
 - Displaying Product Images
- Constraints and Performance Criteria
 - Network connection for online store
 - Review service depends on the customer feedback
 - Price history may require lots of data storage
 - Secure Transactions
 - Aesthetic Design Of Website
 - Proper Payment Calculations
 - Increased Loading Times
 - Exchange/Return Policy
 - Scam/Fraud Prevention

Page Features

General Info

All pages will contain a top bar, nav bar, and a footer

Top Bar

- Social Links
- Logo (Links to home page)

Nav Bar

- Contains links to the main pages (Products, Sale, Placeholder #1, Placeholder #2, Contact)
- Search Bar On Right Side next to shopping cart
- Shopping Cart ar right side

Footer

- Contains links to the information pages (Contact Us, Returns, Order Status, Shipping and Delivery, Company Details)
- Displays the copyright info
- Social links

Web Pages

Home page

- Displays Products of varying categories
- Displays trending products module somewhere on the page

Company Details page

• A page displaying the bios of the developers and our group (Can adapt existing)

Shipping and Delivery page

- Made up shipping and delivery information
- Shipping times for local or international
- Shipping providers
- Duties and taxes
- Express shipping

Order Status page

 Simple page asking the user to submit their order number and email to check their order status

Returns page

- Simple page detailing our return policy
- Contains a button "Return a product"

Contact Us Page

- Lists fake contact information for our company
- Address
- Email
- Phone

Products sorting page

- Complex page that displays all of our products
- Contains a sidebar with sorting options
- Button to change how many products are displayed
- The bottom of this page will display the trending items module

Sale items page

- Very similar to products sorting page but contains products that are marked down in price
- Markdowns should be signified by showing old price crossed out and sale price in red
- Could also display percentage off sale
- The bottom of this page will display the trending items module

Product page

- This will be a single page that will be used to display products when they are clicked on
- Cookies will be used to preserve the product selection that was made in the products sorting or sale pages
- Displays product picture, price, specs, and other relevant info
- Contains button for signing up for price drop alerts
- Contains an add to cart button
- Underneath this info there will be the price history graph
- Under the price history graph there will be the review generator
- The bottom of this page will display the trending items module

Shopping cart page

- Displays products that are currently in the shopping cart
- Totals price of the items using the price calculation module
- Contains a button that links to the checkout page

Checkout page

- Form that asks for all relevant customer info(Name, Address, CC, Phone, Etc)
- Form validation should check if the info is correct and should update on keypress
- Confirm Purchase button

Order confirmation Page

- Displays purchased items and order number
- Order numbers should be generated from the hash code module
- Displays estimated shipping time
- Gives a thank you for your purchase message

Modules (JS Functions)

API Module

- Returns products based on different queries
- Use best buy API

• Price History Module

- Randomly generates a list of x,y points
- x,y points should start at current price as a baseline and work backwards to create a history
- Price fluctuations should be reasonable
- Updates the graph with the required points and displays the price information
- Can try to use chart.js for this

Review Generator Module

- Contains a list of random prefixes and suffixes of reviews (Ex. This
 [product] is the greatest!) and generates random reviews using these parts
- Should generate reviews based on the product name and in a predictable fashion so that the reviews are always the same for each product.

Shopping Cart Module

- Accepts product orders
- Updates shopping cart icon with number of products
- Creates or deletes cookies based on product name or some other code
- Generates an order number
- Calculates price and tax

Validation Module

- Validates a credit card
- Validates entered address info
- Postal code should be in proper format
- Phone number should be in proper format
- Ensures that the email is in the proper format

Trending Items Module

 Should create an element that displays items it pulls from the api as trending

Price Drop Alert Module

 Should create a pop out window that displays a form for a user to input their email and sign up for price drop alerts

Sprint Planning

Legend

Page

Module

Deliverable

Other

Sprint #1 Oct 16 - Oct 22

- Navbar And Footer page
- Company details page
- shipping and delivery page
- order status page
- returns page
- sale items page
- API module
- Data Flow Diagram
- Class Diagram
- Entity-Relationship Diagram
- Gantt Chart

Sprint #2 Oct 23 - Oct 29

- products listing page
- product display page
- homepage
- Work Breakdown Structure
- Task Allocation Chart
- PERT Chart
- Use-Case Diagram
- Risk Assessment Table and Risk Assessment x,y Chart

Sprint #3 Oct 30 - Nov 5

- shopping cart page
- shopping cart module
- review generator module

- checkout page
- order confirmation page
- Unknown New Deliverables

Sprint #4 Nov 6 - Nov 12

- Price history module
- Price drop alerts module
- Update all pages for accessibility features
- Unknown New Deliverables

Sprint #5 Nov 13 - Nov 19

- Trending items module
- Validation module
- All pages should get a CSS makeover to build a consistent style
- Unknown New Deliverables

Sprint #6 Nov 20 - Nov 26

- Final CSS walkthrough for all pages
- Testing for all modules
- Testing all pages for mobile and desktop versions

User Stories

As a single mother, I want a way to see the history of a product's prices so I know I am getting a good value.

 a. Complete price history module. It should generate prices and create the html for the chart element, as well as basic css styles

As a low income student I want to receive price drop alerts so that I can get products on sale.

b. Create a **price drop alerts module** button with a pop out window that asks for email. Create the JS to allow for the popup to work and create a way to close the window and submit.

As a commercial buyer, I want to see detailed product specs so that I can buy the right products for my employer.

c. Create the main product display page

As an affiliate marketer, I want to see which items are currently popular so that I know the best products to buy and review.

d. Create a **trending items module** that pulls products from the api and adds them to a vertical or horizontal element, such as in the sidebar or the bottom of the page

As a senior user, i want a checkout process that is easy to use so that i can make purchases without the help of my children

- e. Create the **shopping cart**, **checkout**, and **order confirmation pages**, as well as their basic layouts with CSS. This page should be easy to navigate with large UI elements for ease of understanding. Everything should be labeled and instructions provided
- f. Create the shopping cart module
- g. Create the validation module

As a video creator, I want a website with good user reviews so that I can buy the best product available for my projects.

h. Create a user review generator module that generates user reviews based on a product name, and creates the html elements. Also create the CSS for the review section

As a visually impaired user, I want a website that is easy to navigate so that I can use it by myself.

 Go back over all pages and update HTML and CSS so that it is optimized for screen readers, as well as incurring that all UI elements are easily navigated

As a business owner, I want a good search feature so that I can find products without wasting too much time.

j. Create the main products listing page and complete the basic style and layout in css and HTML. Create a search area and sorting buttons for this page that will call the API for new products

Spikes

- k. Complete task bar and footer and add to all pages
- Complete basic layout on information pages (Company details, shipping and delivery, order status, returns) Including basic CSS
- m. Create the **API module** that receives requests from various pages and returns products from various categories. This module should return html elements containing the products
- n. Create the sale items page
- o. Update **homepage** to contain links to other pages, and complete styling and layout for this page.