

Ethan Hanlon
GitHub: OccultSlolem
Group: The Beer Men

ID: 921256970
CSC317 Intro to Web Software Development

Teammates:
Pablo Martinez 922270801
Jake Swenson 918356067
Eric Thompson 922361944

Group Project 3 – Storefront in JS

Description

The assignment was to build upon the storefront we built with html and CSS using JavaScript. Functionality needed to be added to the searchbar, the filters, the cart, the checkout page, and the footer of the website. Only JS could be used to implement these features.

Approach / What we did

We chose to create a website named RoboStore to sell robotics equipment, including microcontrollers, tools, sensors, and motors. We also added a settings page where a user could change various account and profile settings.

We divided the work by having each team member be responsible for their own pages. During the CSS stage of the project, the color scheme was already decided upon, so the only consistent CSS element between pages had to be the navbar and the fonts. Apart from that, team members were free to use CSS as they pleased.

For the JS phase of the project, different functionalities were assigned to each group member. These functionalities included the searchbar, filters, login, cart, and checkout pages.

Authentication was probably the simplest JS aspect to implement. When the user presses sign in or register, whatever is in the username box is recorded to localstorage. The username is read in the settings page, and when a user presses to sign out the token is cleared.

Searching was carried out by storing all the items for sale in an array. When enter is pressed, if the index of any item in the list is greater than zero the user is redirected to that page. An improvement to be made in future versions would be to list all similar objects in a search page.

The filter was implemented with a Javascript Object – the key is the name of the product, and the value is an array containing the rating, price, manufacturer, and preview image source.

When the filter button is pressed, it iterates through all entries, and if the rating, price, or manufacturer matches, the items are written to localstorage and the user is redirected to filter.html. On this page, a for loop runs that adds the product card HTML for all the items onto the page.

For the cart, local storage was used to store the items that the user selects, and then they were displayed in the cart, and then the checkout page. Three .js files were created for the products, the cart, and the checkout page. In the cart, the price updates as the user changes the quantities, and items can be removed from it.

Issues and Resolutions

During the JS phase of the project, there were many more difficulties than the other phases.

One of the issues we faced was adding functionality to the navbar. Changing searchbar behavior on every single page was a major nuisance, so I wrote it out into a separate script that adds the HTML into the “navbar-container” div tag. I wrote similar behavior that adds the footer to the “footer-container” div.

The filtering was an especially complex project, although it worked surprisingly quickly for a 168 SLOC segment. The hardest part was displaying the results correctly. For some reason, I could not get JavaScript to write the td tag into the HTML, so I instead applied the requisite CSS styles to the a tag contained within and playing with the margin properties until it looked the same as other pages.

Just getting the cart to work took hours, and due to lack of experience of JS caused problems. Getting the total price in the cart to change when the products were modified was a challenge to get working correctly. Also, when adding a product to the cart, working with local storage was a challenge, as the data had to be stored in a complicated way, and inserting and extracting information was tough. It was a challenge to display the products correctly.

Screenshots

Home page

Activities Firefox Web Browser ▾

Homepage x +

localhost

Apr 14 23:40

Search product...

Sensors Motors Microprocessors Tools

RoboStore

Filters

Maximum Price: Ex. \$200

Manufacturer: Raspberry Pi

Ratings:

1 star
 2 stars

4 GB Raspberry Pi 4 \$20

Arduino Starter Kit \$20

Arduino Nano \$20

Activities Firefox Web Browser ▾

Homepage x +

localhost

Apr 14 23:40

Search product...

11.13.08 Register Now at www.shakeout.org

The Great Southern California Shake Out

Victor BB Motor Controller \$20

Solo 60 Motor Controller \$20

TS100 Smart Soldering Iron \$20

Return to Top

Company Information Tools and Resources Customer Service My Account

About Robostore Sell on Robostore Return Policy Login

FAQ Rebates Track Orders Account Settings

Careers Order History Return History

localhost/product/product_Solo 60 Motor Controller.html Wish List

Product Page

Activities Firefox Web Browser ▾

Product Apr 14 23:40

localhost/product/product_Arduino starter kit.html

Search product...

Sensors Motors Microprocessors Tools

RoboStore

Filters

Maximum Price: Ex. \$200

Manufacturer: Dell

Ratings:

- 1 star
- 2 stars
- 3 stars
- 4 stars
- 5 stars

\$20.00

Add to cart

Buy Now

Join Us For the Largest Earthquake Drill in U.S. History 11.13.08 Register Now at www.shakeout.org

Activities Firefox Web Browser ▾

Product Apr 14 23:41

localhost/product/product_Arduino starter kit.html

Search product...

Arduino Starter Kit

5 stars (234 reviews)

Description of the product goes here. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

If you like this you'll love...

Category Page

Activities Firefox Web Browser ▾

Apr 14 23:41

Microprocessors

localhost/Microprocessors.html

Search product...

Microprocessors

Filters

Maximum Price: Ex. \$200

Manufacturer: Dell

Ratings:

- 1 star
- 2 stars
- 3 stars
- 4 stars
- 5 stars

4 GB Raspberry Pi 4 \$20

Arduino Starter Kit \$20

Arduino Nano \$20

Next

A screenshot of a Firefox browser window showing a product listing for "Microprocessors". The page has a yellow header with a search bar and user icons. On the left, there's a sidebar titled "Filters" with options for maximum price (\$200), manufacturer (Dell), and ratings (1 to 5 stars). The main content area displays three products: a Raspberry Pi 4 model B, an Arduino Starter Kit, and an Arduino Nano, each listed at \$20.

Settings Page

Activities Firefox Web Browser ▾

Apr 14 23:42

Settings

localhost://settings-account.html

Search product...

Sensors Motors Microprocessors Tools

Hello, RoboKegs!

Account settings

• Account Settings
• Profile Settings

john@doe.net

Sign out

Sign Out

Change your email

Email john@doe.net Submit Query

Change your password

Old password

New password

Confirm new password

Submit Query

Delete your account

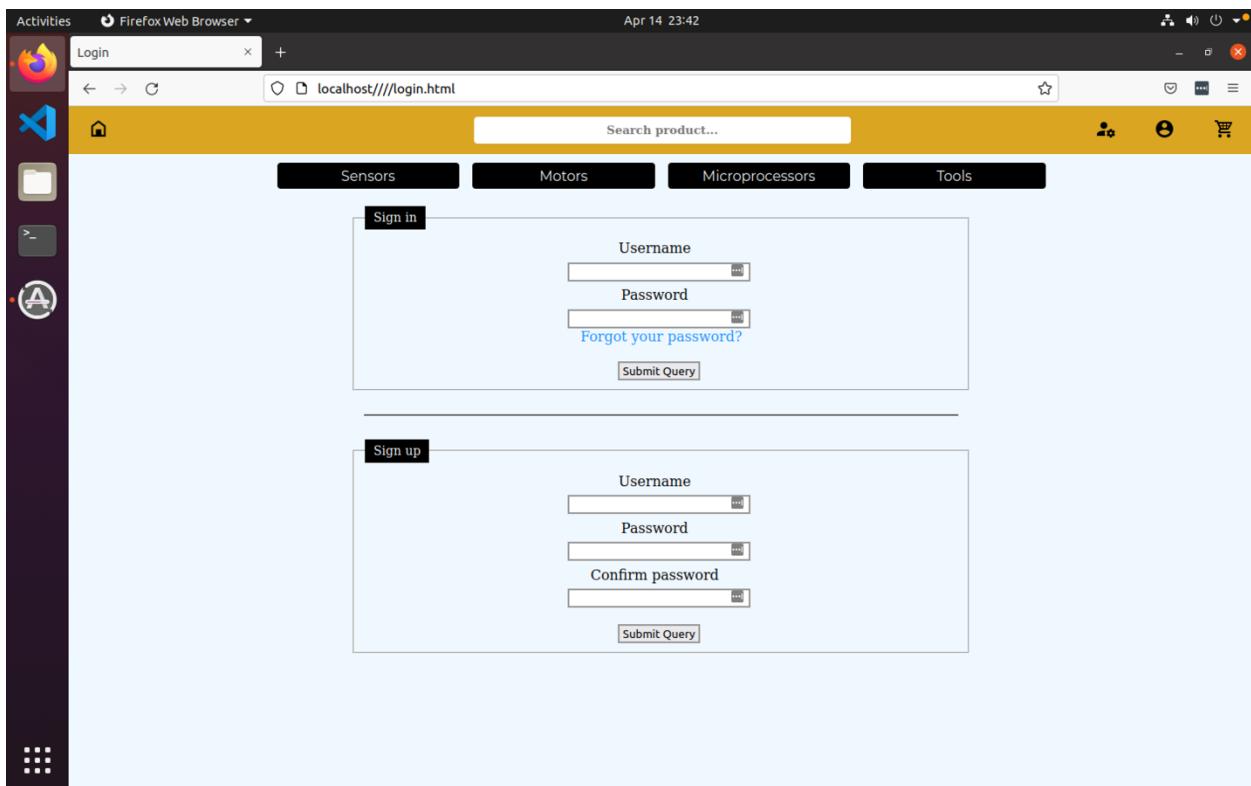
If you're sure, you can delete your account here:

Delete account

Next

A screenshot of a Firefox browser window showing the "Settings" page, specifically the "Account settings" section. The page has a yellow header with a search bar and user icons. It features tabs for Sensors, Motors, Microprocessors, and Tools. The main content area greets the user with "Hello, RoboKegs!" and provides options to sign out, change email, change password, and delete the account. A sidebar on the left shows the user's email address (john@doe.net) and links for Account Settings and Profile Settings.

Login page



Cart page (Zoomed out to 67%)

Activities Firefox Web Browser ▾

Cart Apr 14 23:42

localhost:///cart.html 67%

Search product...

Shopping Cart

		Price
	4 GB Raspberry Pi 4	20
	Arduino Starter Kit	20
	IFlight Beast F7 Drone Controller Board	20
	Solo 60 Motor Controller	25

Quantity:

Subtotal: \$185

Checkout page (Zoomed to 67%)

Activities Firefox Web Browser ▾

Checkout Apr 14 23:43

localhost:///checkout.html 67%

Shipping Address

First Name <input type="text"/>	Last Name <input type="text"/>
Address Street address or P.O. Box Apt, building, floor, etc.	
Country <input type="button" value="United States"/>	State or Province <input type="button" value="Alabama"/>
City <input type="text"/>	ZIP <input type="text"/>

Use the same address for billing?

Billing Address

Address Street address or P.O. Box Apt, building, floor, etc.	
Country <input type="button" value="United States"/>	State or Province <input type="button" value="Alabama"/>
City <input type="text"/>	ZIP <input type="text"/>

Payment Method

Card Number <input type="text"/>	Expiration Date <input type="text"/>	CVV <input type="text"/>
Cardholder Name <input type="text"/>		

Activities Firefox Web Browser ▾

Checkout Apr 14 23:43

localhost:///checkout.html

Review Order

Express Shipping 1-2 Business Days \$20

Normal Shipping 3-5 Business Days \$8

 4 GB Raspberry Pi 4 \$20
Quantity: 6

 Arduino Starter Kit \$20
Quantity: 1

 iFlight Beast F7 Drone Controller Board \$20
Quantity: 1

 Solo 60 Motor Controller \$25
Quantity: 1

Subtotal: \$85.00

Place Order

About us

Activities Firefox Web Browser ▾

About Us Apr 14 23:44

localhost:///aboutme.html

Search product...

Sensors Motors Microprocessors Tools

 RoboStore

Who we are

Founded in 2022, we specialize in robotics technology, merchandise, and offer a wide range of products and services in this field. We operate globally and our head office is located in San Francisco, California, United States of America. Robostore was founded by the Beermen and we launched Robostore.com with a mission to provide quality robotic related products to suit the needs and desires of any "customer", business, individual or enthusiast.

Our mission

At Robostore, our vision is to be the world's leading source of robotics technology that positively impacts our lives. We strongly believe that robotics can improve our lives, improve our environment and improve the world we share; It begins with robotics in our schools, robotics in our homes, in all services and all industries where it may benefit our quality of life. Robotics is everywhere and all sciences lead to better technologies and better robotics. We, the Robostore Team, aim to be at the forefront of the industry, our commitment to providing the utmost quality products for future innovators. In every box that we ship, in every piece of technology that we develop or help develop, we contribute legacy, to improve future generations lives by allowing more access to the developers,

FAQ

Activities Firefox Web Browser ▾ Apr 14 23:44

FAQ localhost/faq.html Search product... Sensors Motors Microprocessors Tools

FAQ

My package arrived damaged.

We apologize on behalf of the quality of your order upon delivery. Robostore offers refunds on quality issues, poor customer service and delivery issues only. You may contact thebeermen@mail.sfsu.edu to speak with a representative or refund processing.

I want a refund on my purchase.

Robostore offers refunds on quality issues, poor customer service and delivery issues only. You may contact thebeermen@mail.sfsu.edu for more information or refund processing.

When can I expect my package?

Robostore commits to delivering all merchandise within a timely manner. Packages delivered in the US should expect shipping within 1-3 business days. Packages shipped internationally will arrive 2-3 weeks from order date.

What delivery carrier does Robostore ship through?

Robostore commits to delivering all merchandise within a timely manner. Packages delivered in the US should expect shipping within 1-3 business days. Our primary delivery courier is FedEx. You may check the status of your order with your provided order number [here](#).

Where can I find product specifications?

Filter (Manufacturer: Raspberry Pi)

Activities Firefox Web Browser ▾ Apr 14 23:47

Filter localhost/filter.html Search product... Sensors Motors Microprocessors Tools

RoboStore

Filters

Maximum Price: Ex. \$200

Manufacturer:

Ratings:

1 star
 2 stars
 3 stars
 4 stars
 5 stars

4GB Raspberry Pi 4 **\$20**
★★★★★

RP4020 Microcontroller Kit **\$20**
★★★★★