

CS391 Web Application Development

Project (1)

Assignment Date : 03.03.2025 09.00 AM

Deadline : 30.03.2025 11.59 PM (EXTENSION IS NOT POSSIBLE)

- This assessment must be prepared and finalized individually or a group.
- You are expected to develop a basic web application. You can use only Html, CSS, Bootstrap and JavaScript.
- Don't use **any HTML design tools, frameworks, or libraries such as JQuery, React etc.**
- When your project is completed, you must upload it to the LMS as an archive file.

You will develop 3 web pages and create 1 file:

- Products.html
- Product-detail.html
- Shopping-cart.html
- Products.js

Products.js file

This file will hold product list. Add at least 10 products into your file. Each product must have id, title, description, category, imageurl and price attributes.

To create the products.js file, you can take help from the following endpoints or define your own data manually.

<https://dummyjson.com/products>

<https://api.escuelajs.co/api/v1/products>

Data structure must be :

```
var products= [ { "id": 1, "title": "Essence Mascara Lash Princess", "description": "xxxxxx", "category":  
"beauty", "price": 9.99,  
  "images": [ "https://cdn.dummyjson.com/products/images/beauty/Essence/1.png"],  
  "thumbnail": "https://cdn.dummyjson.com/products/images/beauty/Essence/thumbnail.png"  
}, {...}, {...},...]
```

Hint: How to read json file from javascript?

You can load js file into html and then use provided products array as shown below:

```
<script type="text/javascript" src="data.js"></script>  
  
<script type="text/javascript">  
  alert("Hello"+products[0].title)  
</script>
```

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Products.html

This page will display all products and must be responsive. Page must contain categories combo box, a text item for filtering, a combobox for sorting and a button for getting results.

Categories combobox must display all categories.

“Sort By” combobox must contain two options : “Sort By Price: Low to High” and “Sort By Price: High to Low”

By default, display all products on the screen without sorting and filtering and let filtering text item empty.

When the user selects a value from the sort-combobox, program must sort the **displayed** products (not all of them) using Javascript functions.

When user selects a category from the category-combobox, program must first clear filter text and sort combobox, and then display all products defined in that category.

Each product card should display product’s thumbnail image, title and price.

According to the screen size, each row must display 5 products(extra large screens), 4 products(large screen), 3 products(medium screen), 2 products(small screen) or 1 product(extra small screen).

The product thumbnail image must be a link, when the user clicks on the link the ***product-detail.html*** page should be displayed.

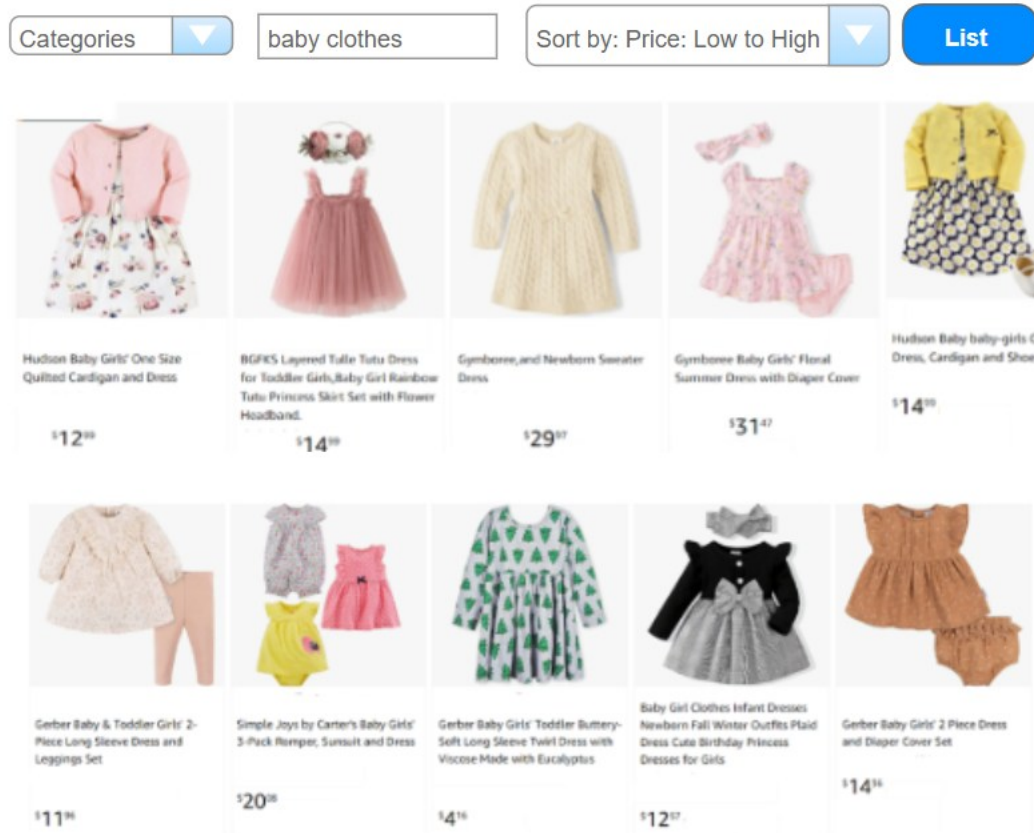
Mockup screen of the product-list.html page can be found here:

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Product-detail.html

Detail page should display:

- Large product image
- Title
- Description

User may select a quantity and press **Add to Cart** button. Total amount must be displayed at the top of the page.

User cannot add a product to shopping cart without selecting quantity.

When user updates quantity, program must update total amount and refresh the shopping-cart.

LocalStorage must be used for saving shopping-cart. Keep localStorage as clean as possible. Save only one object in the local storage. You can create a complete data type for shopping cart like this one:

```
shoppingCart=[{productId, quantity}, {productId, quantity},...]
```

When user clicks over the "Go to Cart" button, shopping-cart.html page must be displayed.

Mockup screen of the product-detail.html page can be found here:

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Hudson Baby Girls' One Size Quilted Cardigan and Dress

Price: **\$12.99**

Product details

Fabric type	100% Cotton
Care instructions	Machine Wash
Origin	Imported

About this item

- Set includes dress and cardigan
- Made with 100% cotton
- Soft, gentle and comfortable on skin
- Optimal for everyday use
- Affordable, high quality value pack

\$12.99

Quantity: 1




Add to Cart

Go to Cart

Shopping-cart.html

Displays cart items and total amount. User can update quantity and delete an item from cart. When the user updates his cart, the total section should be automatically refreshed.

Shopping Cart

	Price
 Little Me Baby Boys' Assorted, Multi, 0-12/12-24 Month	\$12.21
 MIUXUESO 3 Pcs Baby Flower Headbands Baby Girls Nylon Headband Soft Hairbands Hair Accessories for Newborn Infant Toddler Kids (Beige Pink Khaki)	\$8.99
 Simple Joys by Carter's Baby Girls' 3-Pack Snap-up Rompers, Light Pink/Lilac Dots/White Unicorn, 6-9 Months	\$21.50
Subtotal (4 items): \$54.91	

Subtotal (4 items): **\$54.91**

Proceed to checkout

“Proceed Checkout” button should clear shopping cart and delete the corresponding item from localStorage.