Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Fall, Year:2021), B.Sc. in CSE (Day)

Course Title: Web Technology Lab
Course Code: CSE 302   Section: 193D

Lab Project Name: Create a Custom cart with Js

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[For Teachers use only: Don't Write Anything inside this box]

Lab Project Status

Marks: ……………………………   **Signature: ....**

Comments: ....   **Date: ....**

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Chapter 1

Introduction

1.1 Introduction

We are building a custom cart for an E-commerce website in this project
This is done with HTML, CSS, Bootstrap 5, and Vanilla Javascript. The project uses DOM manipulation extensively.

1.2 Design Goals/Objective

Create a custom cart with vanilla JavaScript, HTML, Bootstrap 5, and DOM.

Chapter 2

Design/Development/Implementation of the Project

2.1 Custom cart with Js

This is done with HTML, CSS, Bootstrap 5, and Vanilla Javascript. The project uses DOM manipulation extensively.

2.1.1 Connect the HTML with JavaScript

2.2 Working with DOM

2.2.1 workflow on this project

```javascript
//Function to calculate total price

function calculateTotalPrice() {
  const totalPrice = document.getElementById("total-price");
  const bestPrice = parseFloat(document.getElementById("best-price").innerText);
  totalPrice.innerText =
    bestPrice + getCost("memory") + getCost("storage") + getCost("delivery");

  document.getElementById("final-total").innerText = totalPrice.innerText;
}
```

```javascript
//adding event to the promocode

document.getElementById("promo-btn").addEventListener("click", function () {
  const total = parseFloat(document.getElementById("total-price").innerText);
  const promoCodeInput = document.getElementById("promo-input");
  const promoCode = promoCodeInput.value;
  if (promoCode == "stevekaku") {
    document.getElementById("final-total").innerText = total - total * 0.2;
  }
  promoCodeInput.value = "";
});
```

```javascript
//add event listener to 16 GB memory

document.getElementById("memory-2").addEventListener("click", function () {
  const memoryCost = document.getElementById("memory-cost");

  memoryCost.innerText = 180;
  calculateTotalPrice();
});

//add event listener to 8 GB memory
document.getElementById("memory-1").addEventListener("click", function () {
  const memoryCost = document.getElementById("memory-cost");

  memoryCost.innerText = 0;
  calculateTotalPrice();
});

//add event listener to 256GB SSD storage

document.getElementById("SSD-1").addEventListener("click", function () {
  const storageCost = document.getElementById("storage-cost");

  storageCost.innerText = 0;
  calculateTotalPrice();
});

//add event listener to 512GB SSD storage

document.getElementById("SSD-2").addEventListener("click", function () {
  const storageCost = document.getElementById("storage-cost");

  storageCost.innerText = 100;
  calculateTotalPrice();
});

//add event listener to 1TB SSD storage

document.getElementById("SSD-3").addEventListener("click", function () {
  const storageCost = document.getElementById("storage-cost");

  storageCost.innerText = 180;
  calculateTotalPrice();
});
```

```
1   //add event listener to 16 GB memory
2
3   document.getElementById("memory-2").addEventListener("click", function () {
4       const memoryCost = document.getElementById("memory-cost");
5
6       memoryCost.innerText = 180;
7       calculateTotalPrice();
8   });
9
10  //add event listener to 8 GB memory
11  document.getElementById("memory-1").addEventListener("click", function () {
12      const memoryCost = document.getElementById("memory-cost");
13
14      memoryCost.innerText = 0;
15      calculateTotalPrice();
16  });
```

```javascript
//add event listener to 256GB SSD storage

document.getElementById("SSD-1").addEventListener("click", function () {
    const storageCost = document.getElementById("storage-cost");

    storageCost.innerText = 0;
    calculateTotalPrice();
});

//add event listener to 512GB SSD storage

document.getElementById("SSD-2").addEventListener("click", function () {
    const storageCost = document.getElementById("storage-cost");

    storageCost.innerText = 100;
    calculateTotalPrice();
});

//add event listener to 1TB SSD storage

document.getElementById("SSD-3").addEventListener("click", function () {
    const storageCost = document.getElementById("storage-cost");

    storageCost.innerText = 180;
    calculateTotalPrice();
});
```

```
1  //add event listener to free prime delivery
2
3  document.getElementById("free-delivery").addEventListener("click", function () {
4    const deliveryCost = document.getElementById("delivery-cost");
5
6    deliveryCost.innerText = 0;
7
8    calculateTotalPrice();
9  });
10
11 //add event listener to delivery charge of $20
12
13 document
14   .getElementById("charged-delivery")
15   .addEventListener("click", function () {
16     const deliveryCost = document.getElementById("delivery-cost");
17
18     deliveryCost.innerText = 20;
19
20     calculateTotalPrice();
21   });
```
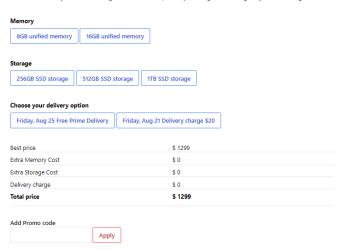
Chapter 3 Performance Evaluation

3.1   Results and Discussions

3.1.1   Results

Customize your Blue 24-inch iMac with Apple M1 chip.

Apple M1 chip with 8-core CPU with 4 performance cores and 4 efficiency cores, 7-core GPU, and 16-core Neural Engine 8GB unified memory 256GB SSD storage Two Thunderbolt / USB 4 ports Magic Mouse Magic Keyboard - US English

Memory

| 8GB unified memory | 16GB unified memory |

Storage

| 256GB SSD storage | 512GB SSD storage | 1TB SSD storage |

Choose your delivery option

| Friday, Aug 25 Free Prime Delivery | Friday, Aug 21 Delivery charge $20 |

Best price	$ 1299
Extra Memory Cost	$ 0
Extra Storage Cost	$ 0
Delivery charge	$ 0
Total price	**$ 1299**

Add Promo code

| | Apply |

Total : $ 1299

3.1.2 Analysis and Outcome

Customize your Blue 24-inch iMac with Apple M1 chip.

Apple M1 chip with 8-core CPU with 4 performance cores and 4 efficiency cores, 7-core GPU, and 16-core Neural Engine 8GB unified memory 256GB SSD storage Two Thunderbolt / USB 4 ports Magic Mouse Magic Keyboard - US English
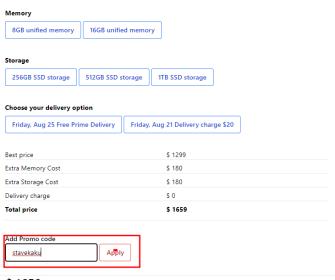
Memory

| 8GB unified memory | 16GB unified memory |

Storage

| 256GB SSD storage | 512GB SSD storage | 1TB SSD storage |

Choose your delivery option

| Friday, Aug 25 Free Prime Delivery | Friday, Aug 21 Delivery charge $20 |

Best price	$ 1299
Extra Memory Cost	$ 180
Extra Storage Cost	$ 180
Delivery charge	$ 0
Total price	**$ 1659**

Add Promo code

| stavekaku | Apply |

Total : $ 1659

Chapter 4

Conclusion

4.1 Introduction

I have created a shopping cart webpage for this project.

This project was built using JavaScript and Bootstrap 5.

The end-user can view the custom Macbook cart webpage on this website.

A specific button can be clicked for more information, and the end-user can purchase the laptop.

4.1 Practical Implications

we can use this project Custom cart with Js

4.2 Scope of Future Work

This custom cart can be easily reused with an API by creating a full-stack e-commerce website.