Learner Details

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- **Batch / Class: Mern Stack**

- **Assignment: Menu card**

- **Date of Submission: 23-07-2025**

Problem Solving Activity 1.1

1. Program Statement

Create a restaurant menu webpage where users can view different categories of food items, filter them by type (All, Starters, Main Course, Desserts), and add items to a shopping cart with a live cart count.

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2. Algorithm

- Structure the HTML with a header containing the restaurant name, navigation links, and a cart count display.

- Create category filter buttons that trigger the filterItems() function to display relevant menu items.

- Display menu items within <section id="menu-items">, each containing an image, name, description, price, and an □Add to Cart□ button.

- On clicking □Add to Cart,□ run the addToCart() function to increase the cart count.

- Use CSS for layout and styling, and JavaScript to handle filtering and cart updates.

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 3. Pseudocode

START

  DISPLAY header with restaurant name, navigation, and cart count

  SHOW category buttons for filtering menu items

DISPLAY menu items with image, details, and Add to Cart button

FUNCTION filterItems(category):

  IF category == 'all' THEN SHOW all items

  ELSE SHOW only items matching category

FUNCTION addToCart():

  INCREMENT cart count

  UPDATE cart display

END

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4. Program Code

```html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Tasty Bites</title>
 <link rel="stylesheet" href="styles.css">
</head>
<body>

 <header>
  <div class="logo">TASTY BITES</div>
  <nav>
   <a href="#">Home</a>
   <a href="#">Menu</a>
   <a href="#">Contact</a>
```

```html
      <span class="cart"><span id="cart-count">0</span></span>
   </nav>
</header>

<main>
  <h1>Menu</h1>
  <div class="categories">
    <button onclick="filterItems('all')">All</button>
    <button onclick="filterItems('starter')">Starters</button>
    <button onclick="filterItems('main')">Main Course</button>
    <button onclick="filterItems('dessert')">Desserts</button>
  </div>

  <section id="menu-items">
    <div class="item starter">
      <img src="/images/Bruschetta.jpg" alt="Bruschetta">
      <h3>Bruschetta</h3>
      <p>Grilled bread with garlic, tomatoes, and basil</p>
      <p>$5.99</p>
      <button onclick="addToCart()">Add to Cart</button>
    </div>

    <div class="item main">
      <img src="/images/pizza.jpeg" alt="Pizza">
      <h3>Margherita Pizza</h3>
      <p>Classic pizza with tomatoes, mozzarella, and basil</p>
      <p>$12.99</p>
```

```html
      <button onclick="addToCart()">Add to Cart</button>
    </div>


    <div class="item main">
      <img src="/images/salmon.jpeg" alt="Grilled Salmon">
      <h3>Grilled Salmon</h3>
      <p>Salmon fillet with a side of vegetables</p>
      <p>$18.99</p>
      <button onclick="addToCart()">Add to Cart</button>
    </div>


    <div class="item dessert">
      <img src="/images/tiramisu.jpg" alt="Tiramisu">
      <h3>Tiramisu</h3>
      <p>Classic Italian dessert with mascarpone and coffee</p>
      <p>$6.99</p>
      <button onclick="addToCart()">Add to Cart</button>
    </div>
  </section>
</main>


<script src="script.js"></script>
</body>
</html>
```
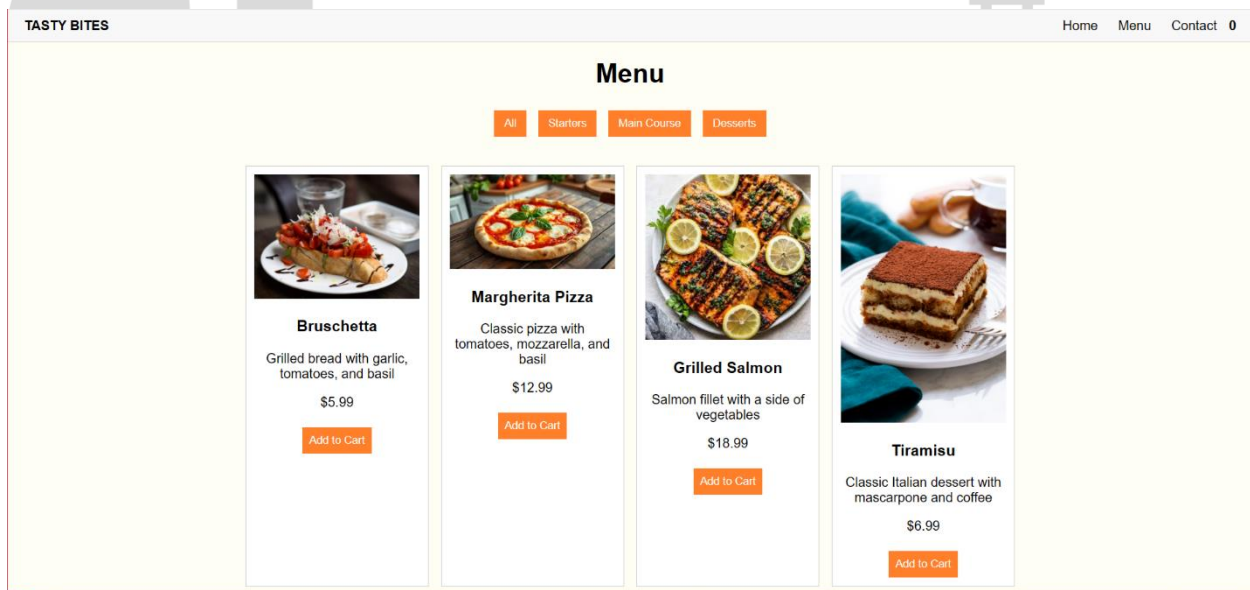
5. Test Cases

Action	Expected Result
Page load	All menu items displayed, cart count = 0
Click "Starters"	Only starter items displayed
Click "Desserts"	Only dessert items displayed
Click "Add to Cart" on any item	Cart count increases by 1 each click
Click "All"	All menu items displayed again

6. Screenshots of Output

7. Observation / Reflection

• I learned how to structure a webpage for an online restaurant menu using HTML and interactive JavaScript functions.

- Implementing filterItems() helped me understand DOM manipulation for showing/hiding elements.

- Updating the cart count dynamically taught me how to modify webpage content in real-time.