The Brothers Café

Name :   **Id :**

Mahmoud Elshaer   192100022

Yousef Ayman   191900254

Abdullah Tarek   192100023

Report on HTML, CSS, and JavaScript for "موقع كافيه The Brothers"

This report provides an analysis of the HTML, CSS, and JavaScript files used to create the webpage for "موقع كافيه The Brothers." The webpage is designed to showcase a menu of drinks (hot, cold, shisha, and medicinal), allowing users to add items to their cart and check out.

1. HTML Structure (index.html)

Overview:

The HTML structure includes a well-organized layout for displaying the cafe menu and interactive features. It is divided into sections to present different categories of drinks. Users can add items to a cart and view the total price.

Key Components of the HTML Document:

1. **Document Metadata (<head> Section):**

   o charset="UTF-8" ensures that the content is properly encoded, supporting Arabic text.

   o viewport meta tag ensures proper responsiveness for mobile devices.

   o External stylesheet styles.css for page styling.

   o Title: "موقع كافيه The Brothers" which is the name of the café.

2. **Main Content (<body> Section):**

   o **Main Container (<div class="container">)**: Encapsulates the entire content with styling applied for the overall page.

   o **Header (<h1>)**: Displays the main title "The Brothers Cafe !" in Arabic.

3. **Menu Sections:**

   o **Hot Drinks** (#hot-drinks): Lists hot drinks with images, names, prices, and an "Add to Cart" button for each item.

   o **Cold Drinks** (#cold-drinks): Similar structure as hot drinks, with items such as Pepsi, juice, milkshake, and iced coffee.

   o **Shisha** (#shisha): Includes fruit shisha and classic shisha.

   o **Medical Drinks** (#medical): Features a medicinal drink option called "لبي طبي."

4. **Cart Section:**

   o **Cart Display** (#cart): Shows the current contents of the cart, which updates dynamically when items are added.

   o **Total Price** (#total-price): Displays the total cost of the drinks in the cart.

o **Checkout Button** (#checkout): A button to complete the order, triggering the checkout() function.

---

2. CSS Styles (styles.css)

The CSS file defines the visual presentation of the webpage, ensuring the layout is appealing and the design elements are cohesive.

Key Styles and Design:

1. **Overall Styling:**

   o **Font**: Uses the Arial font family for readability.

   o **Background**: A background image (images/background.jpg) is set to cover the entire page, giving a sleek visual effect.

   o **Text Styling**: Text is centered and styled in white to contrast with the dark background.

2. **Container Styling:**

   o The .container class sets the main content width to 80% of the viewport, with a dark translucent background (rgba(0, 0, 0, 0.7)), rounded corners, and a box-shadow for visual depth.

3. **Drink Item Styling:**

   o Each drink is wrapped in a .drink-item class with a background color, padding, and rounded corners.

   o Drink images (img) are set to fit within their container with a border-radius for a rounded appearance.

   o The buttons have a color scheme matching the café's theme, with hover effects for user interaction.

4. **Cart and Checkout Button Styling:**

   o The cart and checkout button are styled with clear call-to-action colors, with the checkout button using green and a darker green on hover.

---

3. JavaScript Functionality (script.js)

The JavaScript file handles the dynamic functionality of the webpage, including adding items to the cart and updating the cart display.

Key Features:

1. **Add to Cart:**

   o   Event listeners are added to each "Add to Cart" button. When clicked, a drink object containing the name, price, and type is added to the cart array.

2. **Cart Update:**

   o   The updateCart() function dynamically updates the cart display each time an item is added. It creates new elements (<div>) to display each drink and its price.

   o   It also calculates the total price of the cart by summing the prices of all items and updates the total price displayed on the page.

3. **Checkout:**

   o   The checkout() function is triggered when the "إتمام الطلب" (Complete Order) button is clicked. If the cart is empty, it alerts the user that no items are in the cart. If the cart contains items, it thanks the user and resets the cart to empty.
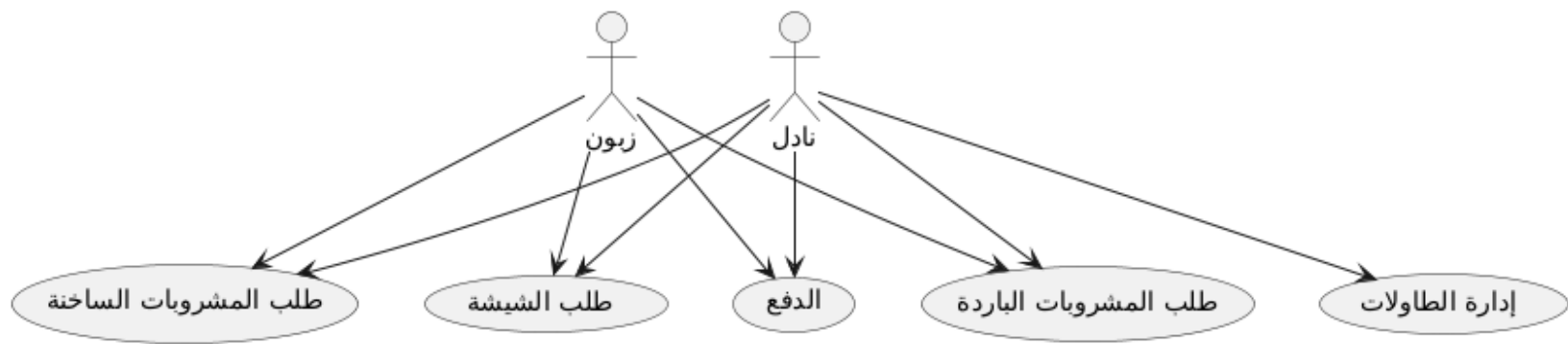
Conclusion

The webpage for **"موقع كافيه The Brothers"** is well-structured and interactive, with distinct sections for different categories of drinks. The layout is clean, and the design elements are visually appealing, using a background image and contrasting colors for clarity and focus.

- **HTML** structures the page with semantic tags and sections, making it easy to navigate.

- **CSS** ensures that the webpage is visually appealing, responsive, and easy to read.

- **JavaScript** adds the interactive elements, handling the cart's behavior, and providing a dynamic user experience.
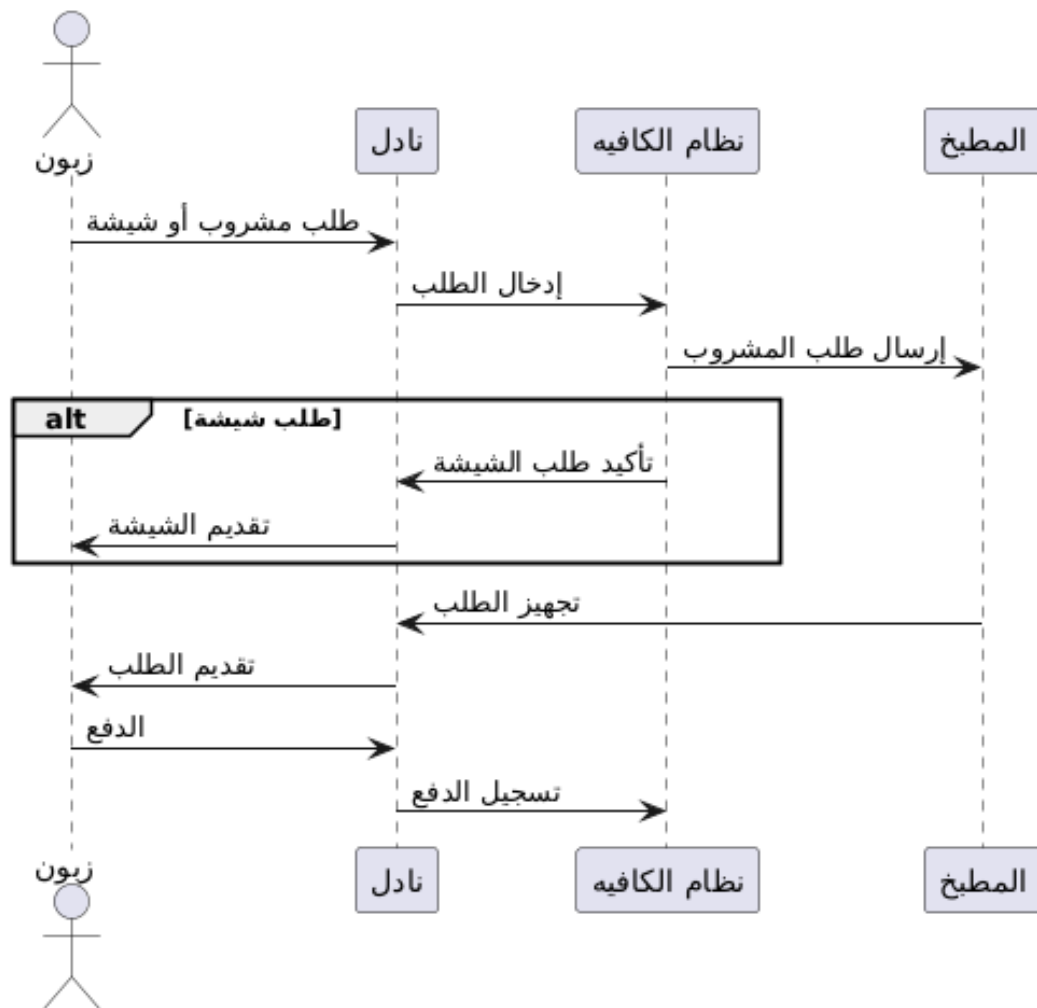
Overall, this webpage is functional and intuitive, providing users with an engaging experience to browse drinks, add them to a cart, and check out. Further improvements could include additional features like drink quantity selection, user login, and order history.

Diagrams :

1) Use case diagram

2) sequence diagram

3) class diagram

زبون (C)
- اسم الزبون: String
- رقم الهاتف: String
- تسجيل طلب(): void

نادل (C)
- اسم النادل: String
- رقم الموظف: int
- استلام الطلب(): void
- تسليم الطلب(): void

طلب (C)
- رقم الطلب: int
- وقت الطلب: DateTime
- الحالة: String
- إضافة عنصر(): void
- تعديل الطلب(): void
- إلغاء الطلب(): void

مشروب (C)
- اسم المشروب: String
- نوع المشروب: String
- السعر: double
- تفاصيل المشروب(): String

شيشة (C)
- نكهة: String
- السعر: double
- تفاصيل الشيشة(): String

طاولة (C)
- رقم الطاولة: int
- الحالة: String
- حجز الطاولة(): void
- تحرير الطاولة(): void