**WEB SYSTEMS & TECHNOLOGIES**

**Assignment #1**

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**Enrolment:** 01-135221-018

**Class:** 5A

**PART I:**

***“Project Proposal: E-commerce website for "Vogue Apparel"”***

**Project Overview:**

This project aims to develop a dynamic and responsive e-commerce website for "Vogue Apparel", an online clothing store. The website will offer a user-friendly and visually appealing platform for customers to browse, select, and purchase clothing and accessories.

**Target Audience:**

The target audience for " Vogue Apparel " is primarily fashion-conscious individuals aged 18-45, with a focus on young adults and professionals. The website should cater to diverse styles and offer clothing for various occasions.

**Front-End Development:**

To ensure a responsive and user-friendly design, the following will be implemented:

• *Responsive design*: The website will utilize a fluid grid layout and media queries to automatically adjust its layout and content size for optimal viewing on various devices, including desktops, tablets, and smartphones.

• *User-friendly interface*: The website will feature a clean and intuitive interface with clear navigation, high-quality product images, and detailed descriptions.

• *Search and filter functionalities*: Customers will be able to easily search for products by category, brand, size, color, and other relevant attributes.

• *Shopping cart and checkout*: A user-friendly shopping cart system will allow customers to add, remove, and update items before proceeding to a secure checkout process.

**Database Management:**

The following database schema is proposed:

• *Tables:*

o *Products:* (product\_id, name, description, price, image\_url, category\_id, brand\_id, stock)

o *Categories:* (category\_id, name)

o *Brands:* (brand\_id, name)

o *Users*: (user\_id, name, email, password)

o *Orders*: (order\_id, user\_id, date, total\_price)

o *Order\_Items*: (order\_item\_id, order\_id, product\_id, quantity, price)

• *Relationships*:

o *Products - Categories (One-to-Many)*: A product belongs to one category, but a category can have many products.

o *Products - Brands (One-to-Many)*: A product belongs to one brand, but a brand can have many products.

o *Users - Orders (One-to-Many)*: A user can have many orders, but an order belongs to one user.

o *Orders - Order\_Items (One-to-Many)*: An order can have many order items, but an order item belongs to one order.

• *Key fields*:

o Each table will have a unique identifier (primary key) to distinguish each record.

*Data Consistency and Integrity:*

Data consistency and integrity will be maintained through the following measures:

• *Data validation:* User input will be validated to ensure accuracy and prevent invalid data from entering the database.

• *Foreign keys*: Foreign keys will be implemented to enforce relationships between tables and prevent inconsistencies.

• *Regular backups*: Regular backups of the database will be performed to ensure data recovery in case of any issues.

**PART II:**

**"Vogue Apparel" Website Description:**

The "Vogue Apparel" website will feature a visually appealing homepage showcasing various clothing categories and new arrivals. Customers can navigate through various sections, including:

*Women's Clothing*: Dresses, tops, bottoms, outerwear, and accessories.

*Men's Clothing:* Shirts, pants, t-shirts, jackets, and accessories.

*New Arrivals*: A dedicated section highlighting the latest additions to the store.

*Sale*: Discounted items across different categories.

*About Us:* Company information, mission, and contact details.

Each product page will display high-quality images, detailed descriptions, size charts, and customer reviews. Customers can add items to their shopping cart, proceed to a secure checkout process, and choose from various payment options. The website will also offer features like account creation, order tracking, and Wishlist.

**HTML CODE:**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Vogue Apparel</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      margin: 0;

      padding: 0;

      background-color: #f7f7f7;

      color: #333;

    }

    h1, h2, h3 {

      margin-bottom: 0;

    }

    a {

      text-decoration: none;

      color: inherit;

    }

    a:hover {

      color: #ff6600;

    }

    header {

      background-color: #333;

      color: #fff;

      padding: 20px;

      text-align: center;

    }

    h1 {

      font-size: 36px;

      margin-bottom: 20px;

    }

    nav {

      display: flex;

      justify-content: center;

      background-color: #444;

      padding: 10px 0;

    }

    nav a {

      font-size: 18px;

      padding: 10px 20px;

      border-radius: 5px;

      transition: background-color 0.3s ease;

    }

    nav a:hover {

      background-color: #555;

    }

    main {

      padding: 20px;

    }

    section {

      margin-bottom: 40px;

      padding: 20px;

      border-radius: 5px;

      box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);

    }

    .product-row {

      display: flex;

      justify-content: space-around;

      flex-wrap: wrap;

    }

    .product {

      flex: 0 1 calc(33.33% - 20px);

      padding: 20px;

      margin-bottom: 20px;

      transition: transform 0.3s ease;

      text-align: center;

    }

    .product:hover {

      transform: scale(1.02);

    }

    .product img {

      max-width: 100%;

      border-radius: 5px;

      margin-bottom: 10px;

    }

    .product h3 {

      margin: 10px 0;

    }

    .product p {

      margin-bottom: 10px;

    }

    .product button {

      background-color: #ff6600;

      color: #fff;

      border: none;

      padding: 10px 20px;

      border-radius: 5px;

      cursor: pointer;

      transition: background-color 0.3s ease;

    }

    .product button:hover {

      background-color: #e65c00;

    }

    /\* Footer styles \*/

    footer {

      background-color: #333;

      color: #fff;

      text-align: center;

      padding: 20px;

      position: fixed;

      bottom: 0;

      width: 100%;

    }

    /\* Responsive Navigation \*/

    @media only screen and (max-width: 600px) {

      nav {

        flex-direction: column;

        align-items: center;

      }

      nav a {

        margin-bottom: 10px;

      }

    }

  </style>

</head>

<body>

  <header>

    <h1>Welcome to Vogue Apparel</h1>

    <nav>

      <a href="#women-clothing">Women</a>

      <a href="#men-clothing">Men</a>

      <a href="#new-arrivals">New Arrivals</a>

      <a href="#sale">Sale</a>

      <a href="#about-us">About Us</a>

    </nav>

  </header>

  <main>

    <section id="women-clothing">

      <h2>Women's Clothing</h2>

      <div class="product-row">

        <div class="product">

          <img src="C:\Users\Hussain\Desktop\WST\New folder\blog-2.jpg" alt="Women's Clothing">

          <h3>Women's Dress</h3>

          <p>$50.00</p>

          <button onclick="addToCart('Women\'s Dress', 50)">Add to Cart</button>

        </div>

        <div class="product">

          <img src="C:\Users\Hussain\Desktop\WST\New folder\blog-3.jpg" alt="Women's Clothing">

          <h3>Women's Top</h3>

          <p>$40.00</p>

          <button onclick="addToCart('Women\'s Top', 40)">Add to Cart</button>

        </div>

        <div class="product">

            <img src="C:\Users\Hussain\Desktop\WST\New folder\clothes-3.jpg" alt="Women's Clothing">

            <h3>Women's skirt</h3>

            <p>$65.00</p>

            <button onclick="addToCart('Women\'s Top', 40)">Add to Cart</button>

          </div>

          <div class="product">

            <img src="C:\Users\Hussain\Desktop\WST\New folder\clothes-4.jpg" alt="Women's Clothing">

            <h3>Women's skirt</h3>

            <p>$70.00</p>

            <button onclick="addToCart('Women\'s Top', 40)">Add to Cart</button>

          </div>

      </div>

    </section>

  </main>

  <footer>

    &copy; 2024 Vogue Apparel. All rights reserved.

  </footer>

  <script>

    function addToCart(itemName, price) {

      alert("Added " + itemName + " to cart. Price: $" + price);

    }

  </script>

</body>

</html>

**OUTPUT:**





