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Hackathon – 3

E-Commerce Website Development Using Next.js and TailwindCSS

Overview

This study project focused on creating an e-commerce website using Next.js and TailwindCSS. The project was completed in two phases: setting up the backend and implementing the frontend functionality.

Phase 1: Setting Up the Backend

1. **Installing Next.js and Sanity:**

   o Installed Next.js for building the frontend framework.

   o Initialized Sanity for managing and storing product data.

2. **Creating Product Schema:**

   o Defined the schema for available products in Sanity.

   o Schema included fields such as product name, price, category, image, and description.

3. **Fetching Data:**

   o Used the provided API key to fetch data from Sanity.

   o Dynamically retrieved and displayed the data on the localhost server at port 3000.

Phase 2: Building the Frontend

1. **Navigation Bar and Footer:**

   o Ensured the presence of a responsive navigation bar and footer.

   o Navigation bar links included:

   - **Home**

   - **Shop**

   - **About**

   - **Contact**

   - **Icons for registration, search, favorites, and cart.**

   o Footer contained:

   - Important links.

   - Miscellaneous information like warranty and free delivery on purchases above $500.

2. **Main Home Page:**

   o Divided into several sections:

   - Featured special products for furniture.

   - Miscellaneous information such as warranty and delivery offers.

3. **Shop Page:**

   o Displayed all products dynamically in card format with details like name, price, and category.

   o Clicking on a product's image or "Order Now" button opened an individual product details page.

4. **Add to Cart Functionality:**

   o Used JavaScript/TypeScript to implement dynamic cart functionality:

      ▪ Added selected products with details like name, image, and price.

      ▪ Allowed users to add multiple products (same or different).

5. **Cart Page:**

   o Displayed all added products with a summary.

   o Included "Checkout" and "All Products" buttons.

6. Checkout Page:

- Contained two sections:
  - **Order Summary**: Listed selected products.
  - **Billing Details**: Form to collect customer information.
- Buttons:
  - "Submit Information"
  - "Place Order"
- After clicking these buttons, a popup displayed a thank-you message.

7. Images:

- Stored in the public folder.
- Included external URLs for some images.

8. UI/UX Design:

- Designed an intuitive and visually appealing interface for the best user experience.

Line Diagram of Workflow

1. Home Page

  |

  +--> Featured Products Section

  |

  +--> Links to Shop Page

    |

    +--> Product Cards (Dynamic)

      |

      +--> Product Details Page

        |

        +--> Add to Cart

          |

          +--> Cart Page

            |

            +--> Checkout Page

              |

              +--> Thank You Message

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