MAN-CSC M25 G25 LAB REPORT:WEB DEVELOPMENT PROJECT

S/N	STUDENT NAME	MATRICULATION NUMBER	ROLE
1	Justice Obinna Nmezi	2024/C/CYB/0820	Group Leader
2	Munachi Onyudo	2024/C/CSC/0929	Member
3	Chetanna Stephanie Igboelina	2024/C/CSC/0507	Member
4	Precious Usman	2024/C/DSC/0505	Member
5	Emmanuel Udorah	2024/C/CSC/0781	Member
6	Amarachi Esther Onwenu	2024/C/CYB/0948	Member
7	Anita Chukwuma	2024/C/SENG/0793	Member
8	Samuel Oyingoke	2024/C/SENG/0680	Member
9	Timothy Chukwu	2024/C/CYB/1020	Member
10	Okeke Chukwuebuka David	2024/C/CYB/0946	Member
11	Gideon Ogbuehi	2024/A/CYB/0055	Member

Introduction

This report documents the development of Dazzling, an e-commerce website designed for a luxury fashion brand. Our group collaborated to build a fully functional web application using HTML5, CSS3, and JavaScript. The website features a distinct purple and black color scheme chosen to represent elegance and style, along with a working shopping cart system and over ten interconnected web pages.

Project Management & Workflow

Timeline and Brainstorming

Our project officially began on Monday, November 17th.

• The first meeting (brainstorming): Our initial meeting focused entirely on the non-coding aspects of the project. We brainstormed the brand identity, debated potential names, and finally agreed on "Dazzling." We also chose the color palette (purple and black) and defined the target audience for the fashion items.

• Collaboration tools: We used a WhatsApp group for daily communication and held Google Meet sessions in the evenings to review progress.

• Version control: A shared GitHub repository was used to manage our code, allowing us to combine everyone's work into one master file.

Task Allocation

Once the brand concept was settled, our Group Leader (Justice) mapped out the technical tasks. To ensure efficiency, he assigned specific roles based on the complexity of the work:

• Group Leader and UI specialist: Justice Obinna Nmezi handled the styling (style.css). He applied the purple/black theme and ensured a consistent design across all pages, while also managing the GitHub merges.

• Core Logic (JavaScript): Chetanna Stephanie Igboelina and Precious Usman implemented the dynamic features. Chetanna handled the shopping cart functionality and Home Page layout, while Precious worked on form validations for the Checkout/Delivery section.

• Page Developers: Each remaining member was assigned at least one full webpage to build, ensuring that everyone contributed to the codebase.

Technical Implementation

HTML Structure (The Pages)

The website consists of multiple linked pages. The work was divided as follows:

• Munachi Onyudo: Created the Board/About Us Page

(board.html), structuring the profiles of the fashion house's board members.
• Emmanuel Udorah: Built the Contact Us Page (contact.html).
• Amarachi Esther Onwenu: Developed the Inquiry Page (inquiry.html) for customer support issues.
• Anita Chukwuma: Built the Branding Page (brand.html) to showcase partners.
• Samuel Oyingoke: Structured the My Cart Page (cart.html).
• Timothy Chukwu: Developed the Terms and Conditions (terms.html) , Privacy Policy (privacy.html) and Site Map (sitemap.html).
• Okeke Chukwuebuka David: Built the Upcoming Events (upcomingevent.html)

• Gideon Ogbuehi: Compiled the final Index/Home Page (landingpage.html) structure, ensuring the main landing page integrated correctly with the site navigation

CSS Styling

The visual design follows a modular approach based on the color palette chosen during brainstorming:

Backgrounds: Deep black (`#0a0a0a`) and dark grey for a premium feel.

Accents: Vibrant royal purple (`#6a0dad`) for buttons, hover effects, and highlights.

Layouts: We demonstrated proficiency in modern layouts by using CSS grid for the Featured Products display and Flexbox for the Navigation Bar and New Arrivals section.

JavaScript Functionality

1)The site includes dynamic features powered by JavaScript: Shopping Cart: Items added to the cart are saved using localStorage, allowing users to return to their selections later.
2)Form Validation: On the Delivery page, user details such as the card number are validated before submission.

3)User Feedback (Notifications)**:** We built a custom "Toast" notification system. When a user adds an item to the cart, a pop-up message appears dynamically to confirm the action without reloading the page.

4)Dynamic UI Effects: JavaScript is used to handle interactive elements, such as changing the styling of event cards when a user hovers over them, making the site feel more responsive.

Challenges and Solutions

• Coordination: Managing eleven people required strict organization. We sometimes ran into merge conflicts when two members edited the same file simultaneously. This was

solved by routing all final changes through the Group Leader on GitHub.

Conclusion

This project was a successful exercise in teamwork. Every member gained meaningful experience with HTML, and the final product reflects our collective effort.