

Capstone Project Report

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COURSE- BTECH CSE CORE

SECTION-A

Course- Web Dev 1

E-Commerce Store UI — Lab 5

Introduction

For Lab 5, I created a **responsive E-Commerce Store User Interface** using only **HTML5** and **CSS3**. The goal was to build a real-world style layout that demonstrates proper structure, design, and responsiveness.

What I Learned

During this project, I gained hands-on experience with:

1. Semantic HTML5

I used elements like `<header>`, `<nav>`, `<section>`, `<article>`, and `<footer>` to create a meaningful structure. This made the code cleaner and more accessible.

2. CSS Flexbox & Grid

- Flexbox helped in aligning items such as the navigation bar and footer.
- CSS Grid was used to arrange product cards neatly in multiple columns.
- I understood how grids collapse into single-column layouts on smaller screens.

3. Responsive Design (Media Queries)

I implemented breakpoints for:

- Mobile ($\leq 480\text{px}$)
- Tablet (768px)
- Desktop ($\geq 1024\text{px}$)

This taught me how layouts can change based on screen size and how to manage font sizes, spacing, and images responsively.

4. Visual Design & Styling

I learned to use:

- CSS variables
- Hover effects
- Transitions
- Basic animations
- Typography and spacing
This improved the overall UI and user experience.

5. Forms & UI Components

I created a contact/inquiry form with proper labels and inputs. I also built product cards, banners, and filter sections that reflect real e-commerce layouts.

How I Built the Project

1. Created the folder structure with **index.html**, **style.css**, and **images**.
2. Added semantic sections for each part of the website.
3. Styled each section using Flexbox, Grid, and CSS variables.
4. Implemented media queries for responsiveness.
5. Added hover animations and colors for a professional feel.
6. Added screenshots and prepared README for documentation.

Conclusion

This project helped me understand how real websites are designed and structured. I practiced responsiveness, layout planning, visual hierarchy, and professional coding habits. Overall, this capstone project strengthened my web development fundamentals and improved my design thinking.