Mini Project-I (K24MCA18P)
Odd Semester
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E-commerce Clothing Website

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Introduction

❖ This project focuses on developing the frontend of an e-commerce website. The main goal is to design a user-friendly, responsive interface that allows smooth navigation and interaction with various products.

❖ An e-commerce website is an online store where buyers and sellers can exchange goods and services. It's a virtual equivalent of a physical store, where customers can browse products, place orders, and make purchases.

Literature Review

❖ E-commerce has grown rapidly in recent years, and frontend development plays a critical role in its success. Modern e-commerce websites focus heavily on user experience and responsive design. Technologies like HTML, CSS, and JavaScript are widely used for frontend development in e-commerce.

Literature Review (Contd.)

❖ Many existing e-commerce platforms, such as Amazon and eBay, prioritize clean and intuitive frontend designs. This project aims to apply best practices from these established sites while leveraging modern frontend frameworks for a streamlined user experience.

Objective of the Project

❖ The objective of this project is to design and implement a functional frontend for an e-commerce website. Key goals include ensuring high responsiveness, an intuitive user experience, and mobile compatibility.
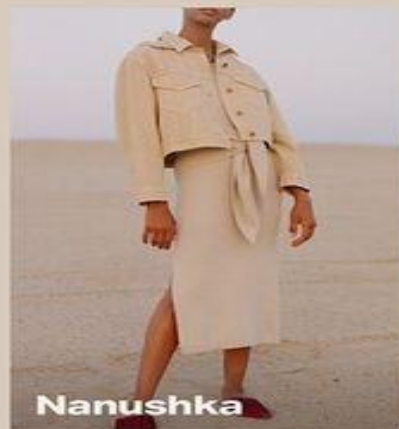
odium

Nanushka

Polo Ralph Lauren

Yigal Azrouël

Re/Done

Maison Kitsuné

Shaina Mote

Angelina J

Vacation '19 *Cravings*

Discover & Shop →

Patti S

Influenced by Rock

Discover & Shop →

Scarlett J

Night Out—*Tokyo*

Discover & Shop →

Nina S

Return of the '70s

Discover & Shop →

Technology (Hardware Requirements)

❖ Development Environment: PC/Laptop with at least 4GB RAM, i3 processor.

❖ Server Requirement: Not required for frontend-only development.

❖ Client Requirement: Modern browsers (Chrome, Firefox, Safari).

Technology (Software Requirements)

❖ Code Editor: VS Code.

❖ Languages and Platforms: HTML, CSS, JavaScript, React (optional).

❖ Frameworks: Tailwind CSS.

❖ Design Tools: Figma, Adobe XD.

Modules

❖ Home Page

➢ The home page includes a navigation bar, product categories, featured products, and search functionality. The goal is to provide users with a quick overview of available products.

Modules

❖ Product Page

➢ The product listing page displays products in a grid view with filters for price, category, and brand. The product detail page includes images, descriptions, reviews, and a section for related products.
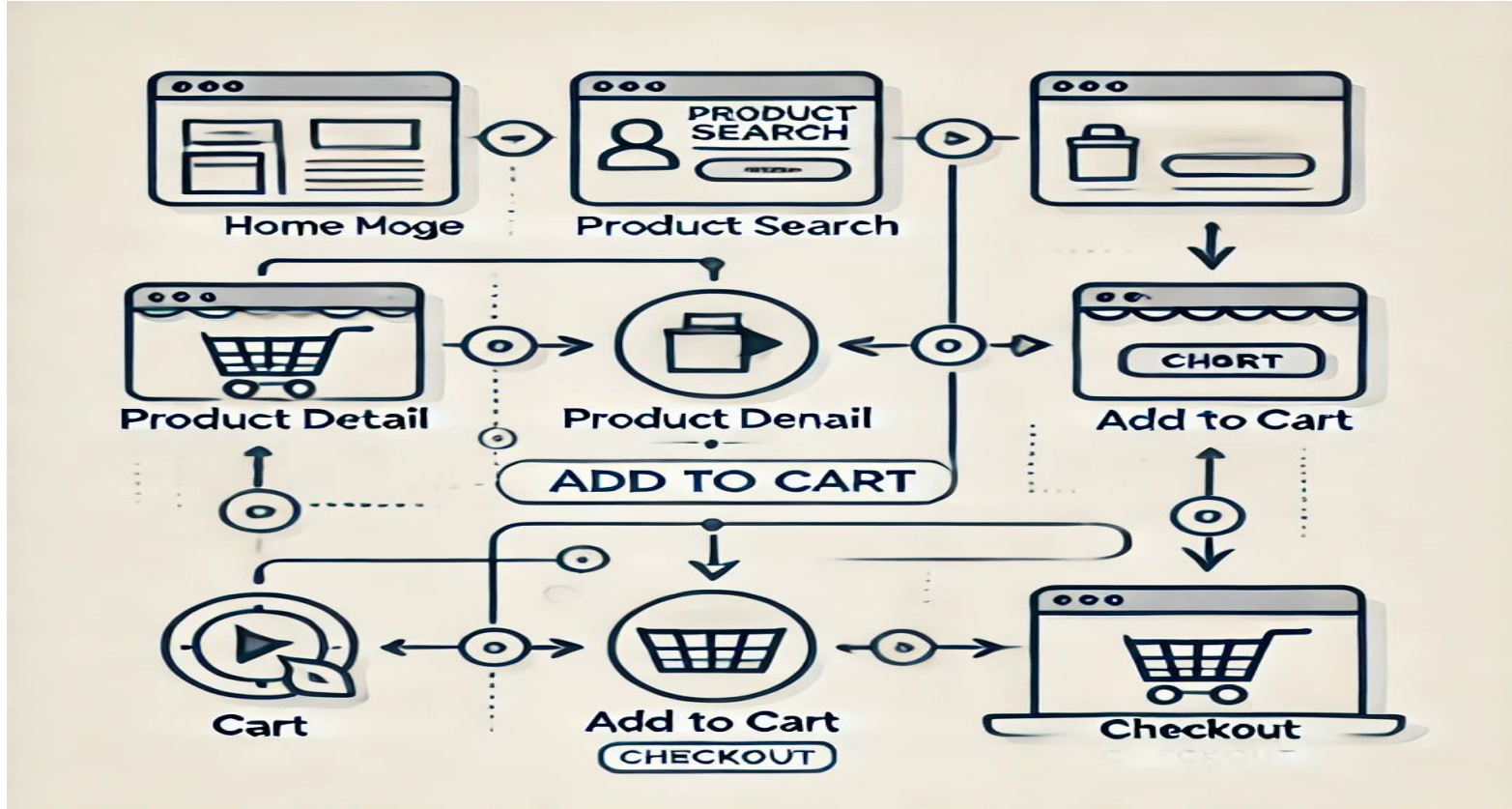
Modules

❖ Cart and Checkout

➢ The cart page allows users to add and remove items, and view the total price. The checkout page, though simulated, provides a smooth user experience, guiding them to finalize their purchase.

Workflow

❖ User visits the website.

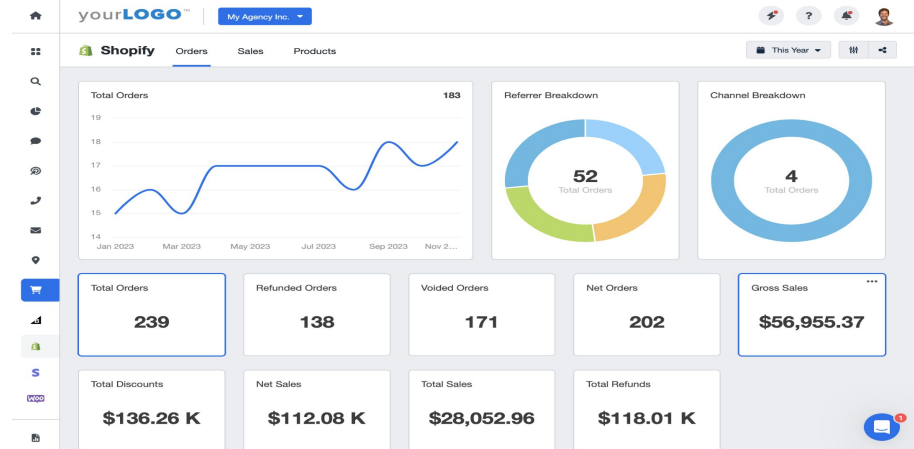❖ Browses products and adds to cart.

❖ Proceeds to checkout.

This workflow focuses on ensuring smooth navigation and responsiveness in all steps.

➤ **Home Page → Product Search → Product Detail → Add to Cart → Cart → Checkout**

Reports

❖ While this project is focused on frontend development, potential reports could include analytics like product views, popular items, and user behavior insights based on frontend interactions.

References

- ❖ Tailwind CSS documentation
- ❖ React documentation
- ❖ CSS Tricks
- ❖ Figma design tutorials
- ❖ MDN
- ❖ W3 School