COLLEGE CODE : 9623

COLLEGE NAME : Amrita College of Engineering and Technology

DEPARTMENT : Computer Science and Engineering

STUDENT NM-ID: 34F54868237E7EAA94B4A5AC30E4BC09

ROLL NO : 962323104037

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Completed the project named as

Phase 5: E-COMMERCE PRODUCT PAGE

SUBMITTED BY,

NAME:S.Harisankar

MOBILE NO : 7904783190

■ Phase 5 — Project Demonstration & Documentation

■ 1. INTRODUCTION

The E-Commerce Product Page Project demonstrates the front-end design and interactivity of an online product detail page. It focuses on user experience (UX) and visual design (UI) to replicate a professional shopping interface.

■ 2. Project Report

Objective:

- To design a clean, attractive, and functional product page.
- To implement real-world UI features like image switching and quantity control.
- To learn and apply responsive web design principles.

Key Features:

Dynamic filtering, real-time search, sorting, responsive UI, REST API integration, error handling.

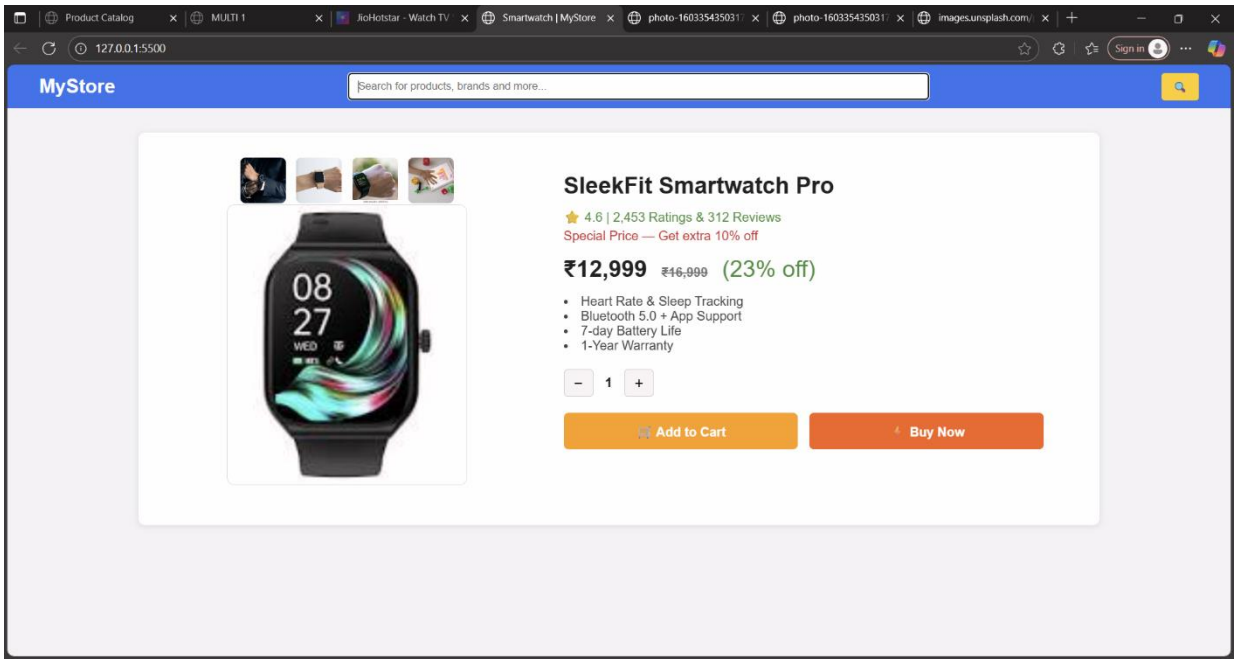
Tech Stack: React.js, Tailwind CSS, Node.js, Express.js, MongoDB / JSON Server

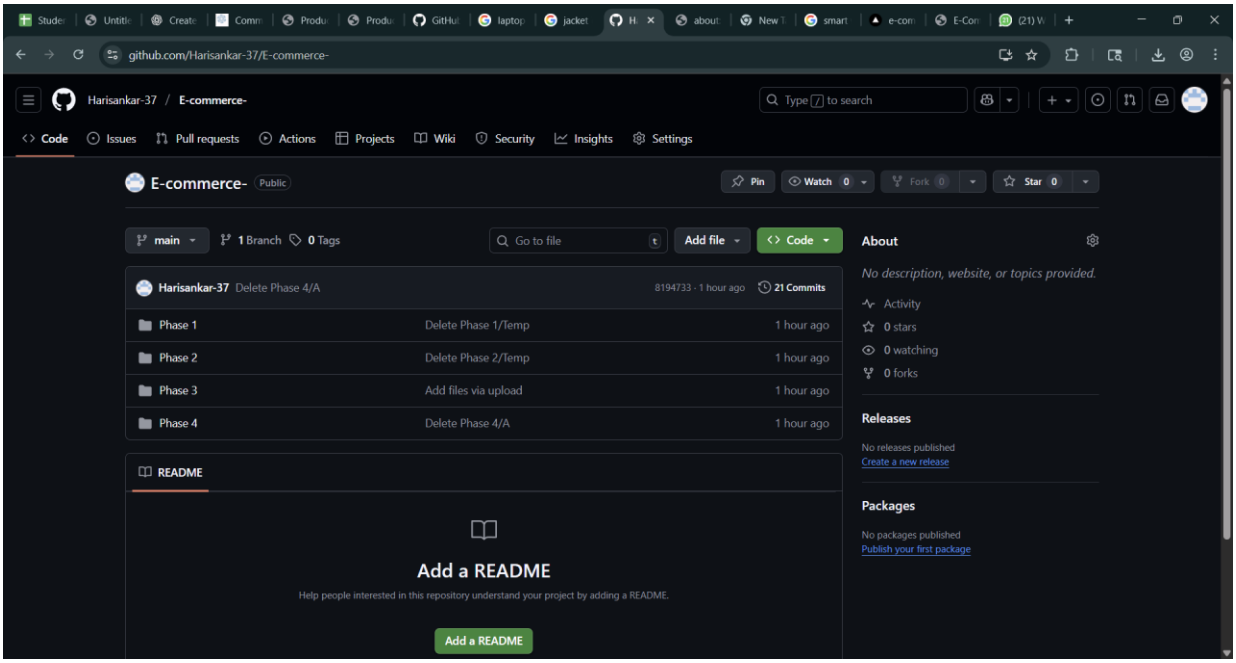
🔷 Key Findings & Learnings:

- Understanding how front-end structure impacts usability.
- Managing dynamic UI updates using DOM manipulation.
- Creating a responsive layout using CSS Flexbox.
- Realizing the importance of user-friendly and intuitive design.

■■ 3. Screenshots / API Documentation

Given below Included screenshots of homepage, filters in action, search results, backend console, and GitHub repository.


MyStore
Search for products, brands and more...
SleekFit Smartwatch Pro
4.6 | 2,453 Ratings & 312 Reviews
Special Price — Get extra 10% off
₹12,999 ₹16,999 (23% off)
Heart Rate & Sleep Tracking
Bluetooth 5.0 + App Support
7-day Battery Life
1-Year Warranty
1
Add to Cart
Buy Now


github.com/Harisankar-37/E-commerce-
Harisankar-37 / E-commerce-
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
E-commerce-
Public
Pin
Watch 0
Fork 0
Star 0
main
1 Branch
0 Tags
Go to file
Add file
Code
Harisankar-37 Delete Phase 4/A
8194733 · 1 hour ago
21 Commits
Phase 1 Delete Phase 1/Temp 1 hour ago
Phase 2 Delete Phase 2/Temp 1 hour ago
Phase 3 Add files via upload 1 hour ago
Phase 4 Delete Phase 4/A 1 hour ago
README
Add a README
Help people interested in this repository understand your project by adding a README.
Add a README
About
No description, website, or topics provided.
Activity
0 stars
0 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package

■4. Challenges & Solutions

Challenges Faced	Solutions Applied
Designing a layout similar to Flipkart/Amazon without frameworks	Used CSS Grid & Flexbox to structure elements and match the layout manually.
Managing responsive design for mobile screens	Implemented CSS media queries and flexible grid sizing.
Changing product images dynamically when thumbnails are clicked	Used JavaScript event listeners to update the src attribute of the main image.
Maintaining proper spacing, alignment, and color balance	Used consistent margins, paddings, and color variables throughout CSS.
Handling quantity control logic (increase/decrease)	Implemented simple JS functions to update the displayed quantity dynamically.

5. GitHub README & Setup Guide

README should include:

• Overview

• Tech Stack

• Features

• Folder Structure

• Setup Instructions:

git clone <repo-url> cd frontend && npm install cd ../backend && npm install npm run dev npm start • Deployed Links (Frontend + Backend)

• Screenshots

■ 6. GITHUB LINK

■ GitHub Link : https://github.com/Harisankar-37/E-commerce-/tree/main

■ Repository Link : https://vercel.com/harisankar-37s-projects/e-commerce