

COLLEGE CODE: 9528

COLLEGE NAME: SCAD COLLEGE OF ENGINEERING AND
TECHNOLOGY

DEPARTMENT: COMPUTER SCIENCE AND
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Completed the project named as:
Phase 5

TECHNOLOGY PROJECT NAME :

E-Commerce Product Page

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Project Demonstration & Documentation

Project Demonstration&Documentation

1.Demo Summary:

The E-Commerce Product Page allows users to:

- View product details (name, image, price, description, and ratings)
- Add products to the cart or wishlist
- Filter and sort products by category, price, or rating
- Responsive UI for desktop and mobile
- Checkout link or redirect to cart page

Tools Used:

Frontend: HTML,CSS, JavaScript (or React if applicable)

Backend (optional): Node.js / Firebase / JSON Server

Database: Firebase / MongoDB / Local JSON data

Version Control: GitHub **Deployment:** GitHub Pages /

Netlify / Vercel

Walkthrough Steps:

1. Open Homepage
2. Browse the list of products displayed in a structured grid layout. Users can click on any product to see its detailed view.
3. View Product Details:

2.Project Report Objective:

To design and develop a responsive e-commerce product page that displays product information and allows basic cart interactions, improving user shopping experience.

Features:

Product listing with image, title, price, and “Add to Cart” button

Search and filter options

Product detail popup or separate page

Responsive and visually appealing layout

Local storage–based cart management (optional)

Technologies Used:

Category	Tools / Frameworks
Frontend	HTML, CSS, JavaScript
Backend	(optional) Node.js or JSON Server
Database	JSON / Firebase
Hosting	GitHub Pages / Netlify
Version Control	Git & GitHub

3. Screenshots / API Documentation:

Screenshots:

Include the following (with captions):

- Homepage view
- Product detail view
- Add to Cart action
- Cart page
- Responsive mobile view

API Documentation (if API used):

GET /api/products – Fetch all products
GET /api/products/:id – Fetch single product details
POST /api/cart – Add item to cart
DELETE /api/cart/:id – Remove item from cart

Example Response:

```
{  
  
  "id": 101,  
  
  "name": "Wireless Headphones",  
  
  "price": 2499, "category":  
  
  "Electronics", "rating": 4.5, "image":  
  
  "img/headphones.jpg" }
```

4.Challenges & Solutions:

Challenge	Solution Implemented
Designing responsive layouts for all screen sizes	Used Flexbox and media queries
Managing dynamic cart updates	Implemented JavaScript event listeners and local storage
Product filtering performance	Optimized DOM rendering using search and filter logic
Deployment issues	Used Netlify for easy CI/CD deployment

5.GitHub README & Setup Guide:
README Content Overview:

- Project Title and Description
- Demo Screenshot / Live Link
- Features List

- Tech Stack
- Installation Guide
- Folder Structure
- API Endpoints (if any)
- Contributions

Setup Instructions:

Clone the repository

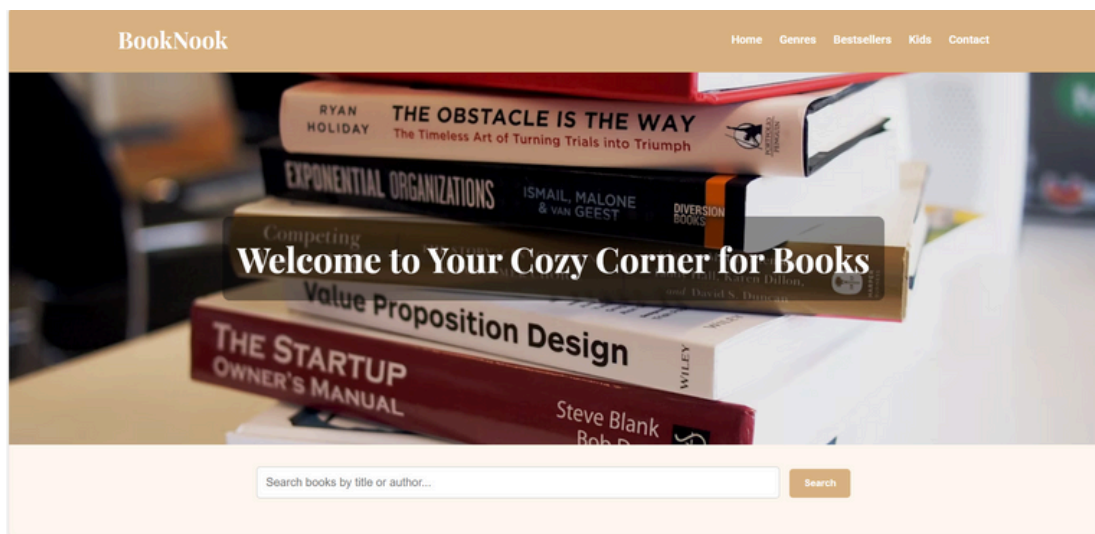
```
git clone https://github.com/yourusername/ecommerce-product-page.git
```

Navigate to project folder

```
cd ecommerce-product-page
```

Open index.html (for frontend only) # or run server if

backend is included `npm install` `npm start`



6.Final Submission:

GitHub Repository Link :

<https://github.com/suganyaug23cs-dot/Project-.git>

The E-Commerce Product Page marks the completion of Phase 5, representing a fully functional, responsive, and user-friendly shopping interface built using modern web technologies. The final version of this project integrates HTML, CSS, and JavaScript for the frontend, with optional backend connectivity through Firebase or Node.js.