E-commerce Product Page

Submitted By:

Name	Reg No.	College Mail ID
Abhigyan Neog	2460304	abhigyan.neog@btech.christuniversity.in
Manshvi Jain	2460404	manshvi.jain@btech.christuniversity.in
Sarthak Sharma	2460487	Sarthak.shamra@btech.christuniversity.in

Abstract

This project is about creating a GadgetPro Website that showcases a revolutionary smart device with product details, interactive features, add-to-cart functionality, and a payment system. The main goal of this project is to design a modern, responsive, and user-friendly ecommerce platform. The final outcome is a fully functional website deployed on GitHub, where users can explore product features, view pricing, add products to their cart, and proceed to checkout.

Scope of the Project

- Design and development of a responsive e-commerce website.
- Showcase of product details, features, testimonials, and pricing.
- Implementation of shopping cart and payment page.

- Interactive UI using JavaScript and Bootstrap.
- Deployment on GitHub Pages for easy access.

Tools & Technologies Used

Tool/Technology Purpose

HTML5 Website structure & content

CSS3 Styling, layout, responsiveness

JavaScript (3 files) Cart handling, payment page, product

details

Bootstrap 5 Responsive design & UI components

Font Awesome & Google Fonts Icons and typography

VS Code Code editor

GitHub Version control & website deployment

Chrome DevTools Testing & debugging

HTML Structure Overview

- Semantic tags: <header>, <nav>, <section>, <footer>.
- Sections include: Hero banner, slideshow, product features, testimonials, pricing, and contact.
- Organized into reusable and modular components for scalability.

CSS Styling Strategy

- External CSS file (product.css) for modular styling.
- Flexbox & Grid used for structured layouts.
- Hover effects and transitions for better interactivity.
- Media queries ensure full responsiveness across devices.
- Brand colors and shadows used to enhance appeal.

Key Features

Feature Description

Interactive Slideshow Auto-changing images with fade effect

Product Showcase GadgetPro design, performance, and

battery highlights

Shopping Cart Add-to-cart functionality with item

tracking

Payment Page Checkout page implemented using

JavaScript

Responsive Design Works across desktops, tablets, and

mobiles

Customer Testimonials Feedback from users displayed in card

layout

Deployment Hosted live on GitHub Pages

Challenges Faced & Solutions

Challenge Solution

Cart synchronization Implemented localStorage to maintain cart

state

Payment integration Developed mock payment page with

validation

Responsive layout issues Fixed with Bootstrap Grid & media queries

Image optimization Used loading="lazy" and compressed

images

Outcome

- Successfully built and deployed a fully functional GadgetPro website.
- Implemented cart management, checkout, and product detail features.
- Enhanced skills in front-end development, UI/UX design, and GitHub deployment.

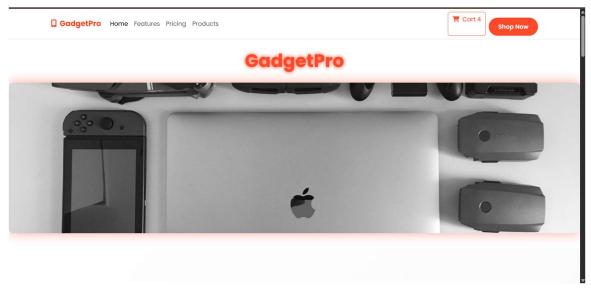
Future Enhancements

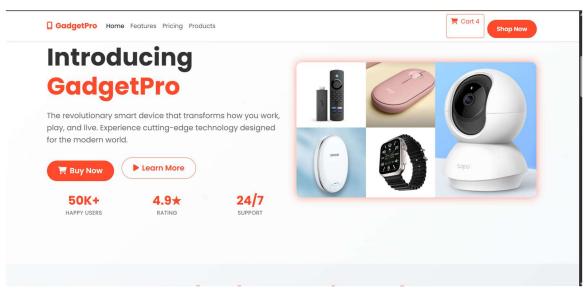
- Add real payment gateway integration (Razorpay/PayPal).
- Include user authentication & profile management.
- Implement order history tracking.
- Add dark/light mode for better accessibility.
- Optimize performance for faster page loads.

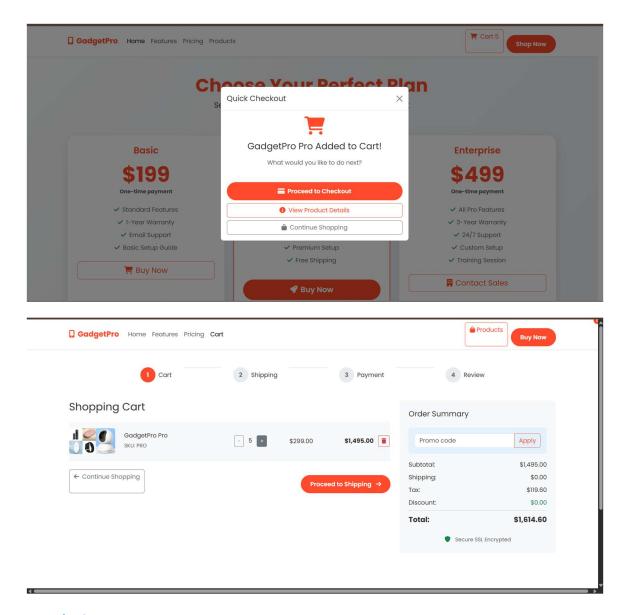
Sample Code (Cart Functionality)

```
// Add product to cart
function addToCart(productId, productName, productPrice) {
  let cart = JSON.parse(localStorage.getItem('gadgetpro_cart')) || [];
  cart.push({ id: productId, name: productName, price: productPrice });
  localStorage.setItem('gadgetpro_cart', JSON.stringify(cart));
  updateCartDisplay(cart);
}
```

Screenshot







Conclusion

The GadgetPro project helped me strengthen my front-end development skills, including HTML, CSS, JavaScript, and Bootstrap. I also gained practical experience in e-commerce website design, cart management, and deployment on GitHub. The final product is a responsive and interactive website that demonstrates modern UI/UX principles.

References

• Bootstrap Docs: https://getbootstrap.com

• Font Awesome: https://fontawesome.com

• Google Fonts: https://fonts.google.com

• MDN Web Docs: https://developer.mozilla.org