

PC BUILDER STORE

Next-Gen E-Commerce for Custom Computing

Advanced Web Platform | Hackathon Project 2024

THE MARKET PROBLEM

Entry Barriers

High-performance computing is often inaccessible due to skyrocketing costs of new components and complex configuration requirements for beginners.

Fragmented Markets

Users must jump between marketplaces for new parts, sketchy forums for used gear, and static guides for compatibility, leading to high friction and risk.

A Unified Ecosystem

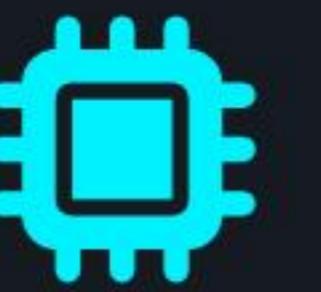
We bridge the gap between affordability and performance by integrating a smart PC builder with a curated second-hand marketplace.

CORE PROJECT OBJECTIVES



Intuitive UI

Design a modern, responsive interface using Bootstrap 5 that simplifies the shopping journey.



Customization

Enable users to build custom rigs tailored to their specific budget and performance needs.



Affordability

Lower the barrier to entry by offering refurbished components at market-beating prices.

MODERN DESIGN

Visual Excellence

Our platform features a sleek "Dark Mode" aesthetic that resonates with the gaming community.

Built with modern UI/UX principles, the interface focuses on ease of use, smooth navigation, and a highly interactive building experience.



PLATFORM FEATURES

-  **Dynamic PC Builder:** Real-time compatibility checks and configuration tools.
-  **Live Price Calculation:** JavaScript-driven price updates as you add components.
-  **Second-Hand Section:** Dedicated verified listing area for refurbished hardware.
-  **Smart Cart System:** Seamlessly manage individual parts or entire builds.

THE TECH STACK



Frontend

HTML5, CSS3, & Modern JS
(ES6+)



UI Framework

Bootstrap 5 for Fluid
Responsiveness



Management

Git & GitHub for Version
Control

RESPONSIVE COMPATIBILITY

Build Anywhere

Our Bootstrap-powered UI ensures that users get the same premium experience whether they are on a high-end desktop or a smartphone.

Adaptive layouts resize components dynamically, keeping the PC building logic accessible on any screen size.



600 × 400

INVENTORY DISTRIBUTION



- New Components (60%)
- Second-Hand Deals (30%)
- Pre-Built Rigs (10%)

COMPETITIVE PRICING ANALYSIS



Our hybrid model provides an average of **25% savings** per custom build compared to retail giants.

THE PATH AHEAD



ANY QUESTIONS?

PC Builder Store - Advanced E-Commerce Project

 github.com/yourproject

 pc-builder-store.demo

IMAGE SOURCES



https://img.overclockers.co.uk/content/images/pdp/ocuk-gaming/Techforge_Vice_hero.png

Source: www.overclockers.co.uk