

# 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.

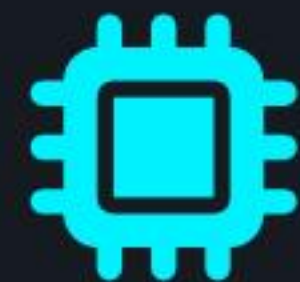


# CORE PROJECT OBJECTIVES



## 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

General Market

\$1,200 (Avg)

PC Builder Store

\$890 (Avg)

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](https://github.com/yourproject)

 [pc-builder-store.demo](https://pc-builder-store.demo)



# IMAGE SOURCES



[https://img.overclockers.co.uk/content/images/pdp/ocuk-gaming/Techforge\\_Vice\\_hero.png](https://img.overclockers.co.uk/content/images/pdp/ocuk-gaming/Techforge_Vice_hero.png)

Source: [www.overclockers.co.uk](http://www.overclockers.co.uk)