

PCBuilder FrontEnd Documentation - Figma Link

Prototype Link for Figma Presentation

Website Selection:

Our team has chosen to develop PCBuilder, a custom PC Builder Tool inspired by [PC Part Picker](#) and [Pangoly](#). This decision was driven by identifying gaps in these existing websites while recognizing the growing market of PC enthusiasts, especially within the Computer Science and Computer Engineering students community who need comprehensive tools for building personalized computer systems in an intuitive way.

Design Concept:

Target Audience

PCBuilder will cater to several key demographics:

- Gaming enthusiasts seeking optimal performance within specific budgets
- Computer Science and Computer Engineering students requiring specialized builds for academic projects
- Professionals in fields demanding high-performance computing (video editors, 3D modelers, developers)
- PC enthusiasts and hobbyists who enjoy the building process

Our Front-End approach for PCBuilder emphasizes a clean, modern aesthetic with a focus on component visualization and user-friendly navigation. The design uses a simple color palette that balances technical professionalism with engaging visual elements so users can see the components they're picking.

Usability Principles and Best Practices Considered during Design Process

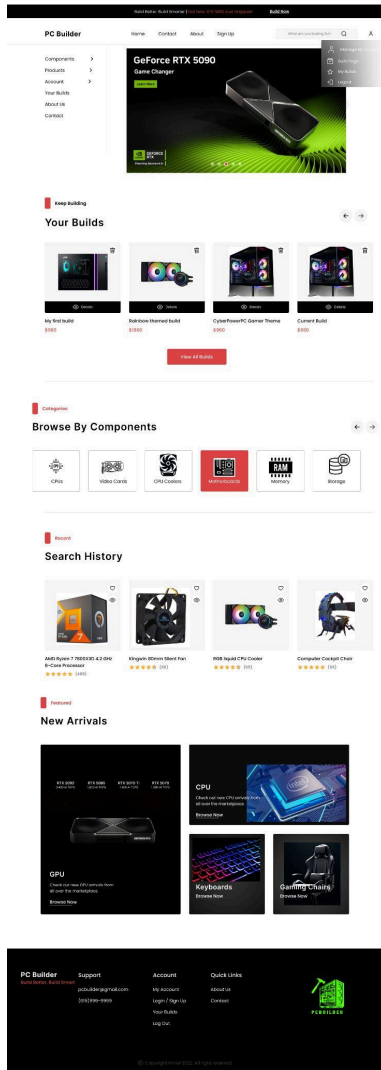
For the design of our project we wanted to make sure everything looked user-friendly and easy to use, which is why we chose the simple color scheme of black, white and red. Not only did we want the UI to be user-friendly but we also wanted the UX to be user-friendly.

When the user goes into the website they are greeted by the homepage. From there they are greeted by all the different options they could think of, for instance looking at their already made builds or starting a new one. Therefore, if they are making a new build they would start by going into the browse by components page. Once they click on browse by components, they are brought to the specific page for that, which shows the user all the components recommended to build a pc. From there as the click on a category(ex: CPU) , they are led to the specific category page, where they can click on the specific component they want to add and either add it to their build page from there or go the specific product page and get more details on it and add to the build from there. The Build page will include all these products they are adding including the compatibility check to make sure they all work together. From the build page they can proceed to the checkout page to buy the products for their PC build.

Overall, the design of our website was made to make the user's experience in building their pc as efficient and easy as possible. Every page guides the user to the next logical step in the process.

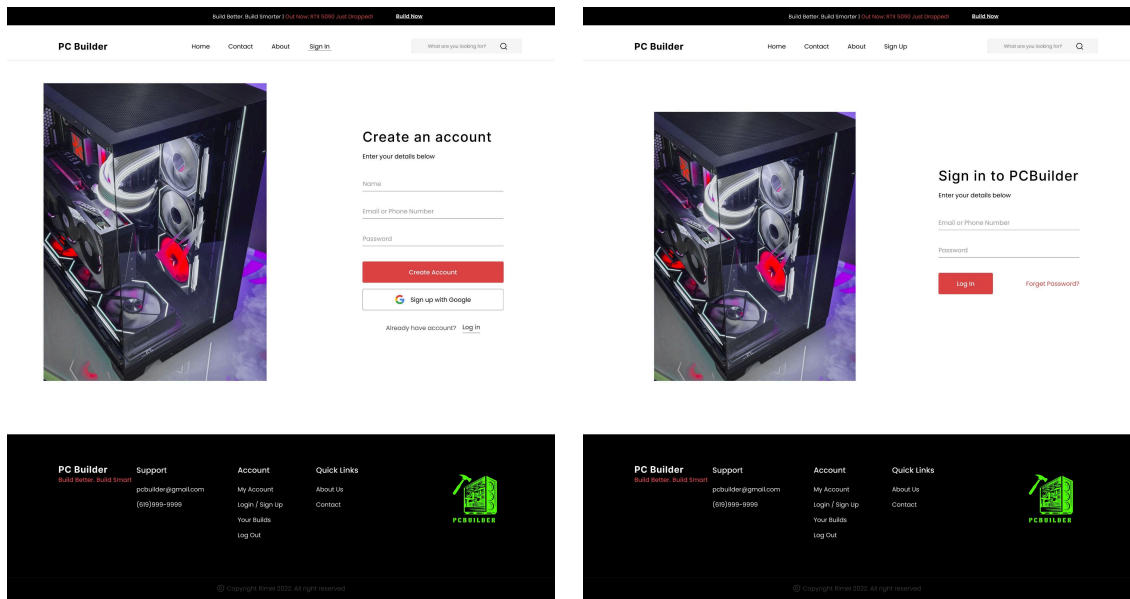
Overview of the Web Pages

1. Homepage



This is the main page of the website and will be used to get to any other pages. Through the homepage, users can check out builds, make an account, login, logout, browse through products, mark an item as favorite, place an item in their wish list, read about the website, and be able to contact the makers of the website itself.

2. Sign Up / Sign In pages



Users will need an account to use the capabilities of the website. There will be a sign up page for users to create an account by entering their information or signing up through a google account. For those who already have an account, there will be a separate login page.

3. User Profile Page (Account Page)

Build Better, build Smarter | Out Now \$11 \$100 Just Shipped

Build Now

PC Builder

Home

Contact

About

Sign Up

What are you looking for?

Home / My Account

Welcome! Username

Manage My Account

My Profile

My Addresses

My Payment Options

My Orders

My Returns

My Cancellations

Edit Your Profile

First Name

MS

Last Name

Simel

Email

rimell@gmail.com

Password Changes

Current Password

New Password

Confirm New Password

Save Changes

My Addresses

Address 1

Kingston, 5236, United States

Address 2

Queenston, 5723, United States

Edit

My Payment Options

Chase Sapphire Preferred

Credit Card ending in **** 0804

Citi® Double Cash

Credit Card ending in **** 1810

Edit

My Orders

Thermaltake TH20 V2 ARGB Liquid Cooler

CPU

Qty: 1

\$188.99

SANSUI Monitor 22 inch 1080p FHD 75Hz

Computer Monitor with HDMI VGA...

Qty: 1

\$75.99

Status

Delivered on March 11, 2025

[Details](#)

Shipped on March 1, 2025

[Details](#)

View More

PC Builder

Build Better, build Smarter

Support

pcbuilder@gmail.com

(616)999-9999

Account

My Account

Login / Sign Up

Your Builds

Log Out

Quick Links

About Us

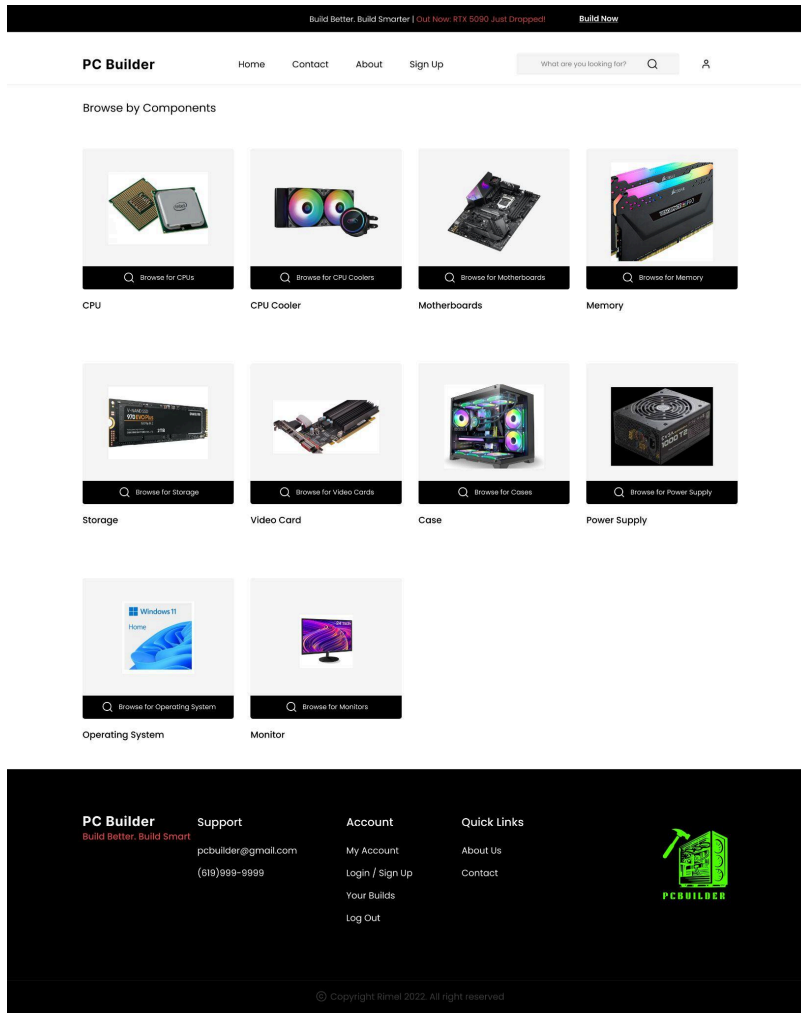
Contact

PCBUILDER

© Copyright Rimel 2022. All right reserved

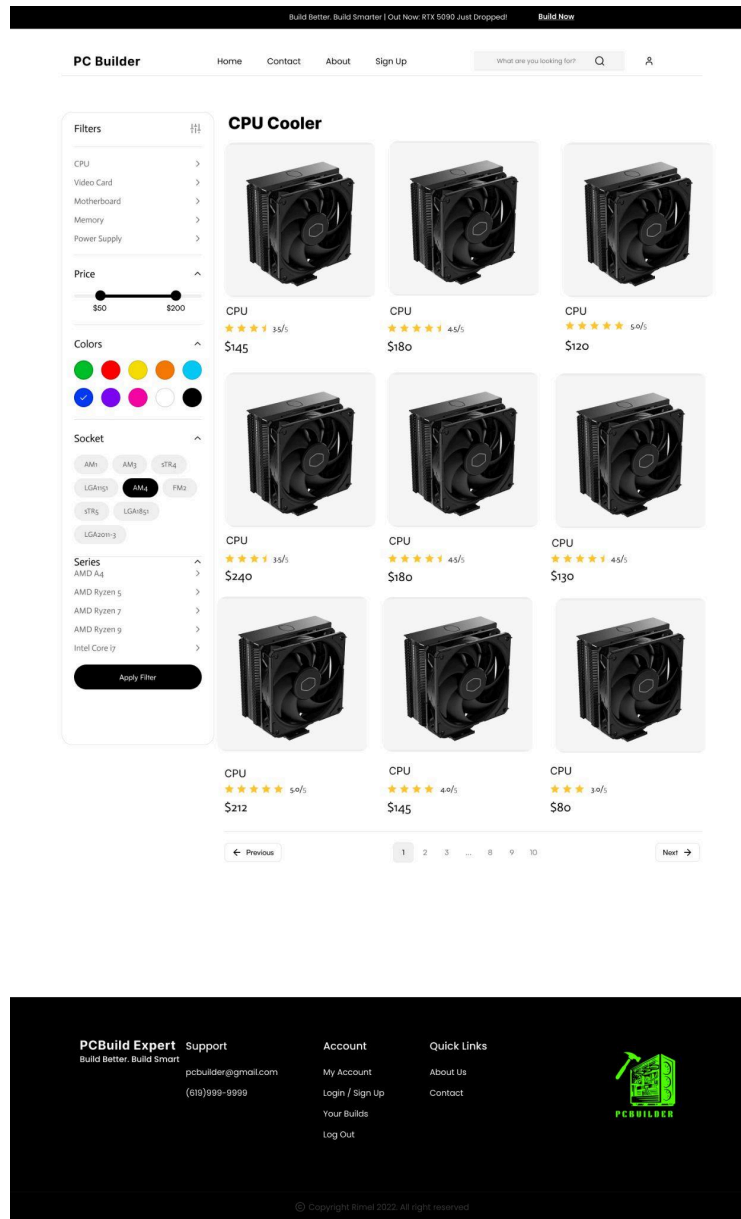
This will be where the User will see details about their User information. Users will be able to edit their personal information on this page. They will also be able to see a comprehensive list of their orders and payment information.

4. Browsing Components Page – Making a Build



The Browsing for components Page will provide a list of the **general components** needed to build a PC (CPU, CPU cooler, motherboard, etc). Users will be able to click on each component they are interested in browsing, and this will lead to a separate page dedicated to that specific component.

5. Category Page



The Category Page provides a comprehensive view of all available products within that specific component family. Here, users can browse through the various options, compare specifications, check compatibility and ultimately choose the perfect part for their custom build.

Specific products on this page can also be clicked on to navigate the user to the Product Details Page.

6. Product Details Page

Build Better. Build Smarter | Out Now: RTX 5090 Just Dropped!

Build Now

PC Builder

Home

Contact

About






Sign Up


What are you looking for?

Q

A

Components / Category / AMD Ryzen™ 9





AMD Ryzen™ 9 9950X 16-Core, 32-Thread Unlocked Desktop Processor
★★★★★ (150 Reviews) | [In Stock](#)
\$192.00
The best for creators meets the best for gamers, can deliver ultra-fast 100+ FPS performance in the world's most popular games


-


2

+

Add to Build


Check Compatibility


 **Free Delivery**
Enter your postal code for Delivery Availability


 **Return Delivery**
Free 30 Days Delivery Returns. [Details](#)


All Reviews (459)


Write a Review


★★★★★
Samantha D. 
This was one of the best ones I've used.

★★★★★
Alex M. 
Exceeded my expectations

★★★★★
Ethan R. 
Perfect for gamers! But the delivery was late.


★★★★★
Olivia P. 
Really functional

★★★★★
Liam K. 
Amazing

★★★★★
Ava H. 
One of the best I've used


Load More Reviews

Related Item




Add To Cart

Intel® Core™ i9 processor 14900K
\$960 \$1160
★★★★★ (75)




Add To Cart

AK-900 Wired Keyboard
\$960 \$1160
★★★★★ (75)



Add To Cart

GeForce RTX 4090 Super
\$960 \$1160
★★★★★ (75)



Add To Cart


AMD Ryzen 7 Series
\$960 \$1160
★★★★★ (75)

PC Builder
Build Better. Build Smarter

Support
pcbuilder@gmail.com
(619)999-9999

Account
My Account
Login / Sign Up
Your Builds
Log Out

Quick Links
About Us
Contact



© Copyright Rinet 2023. All right reserved

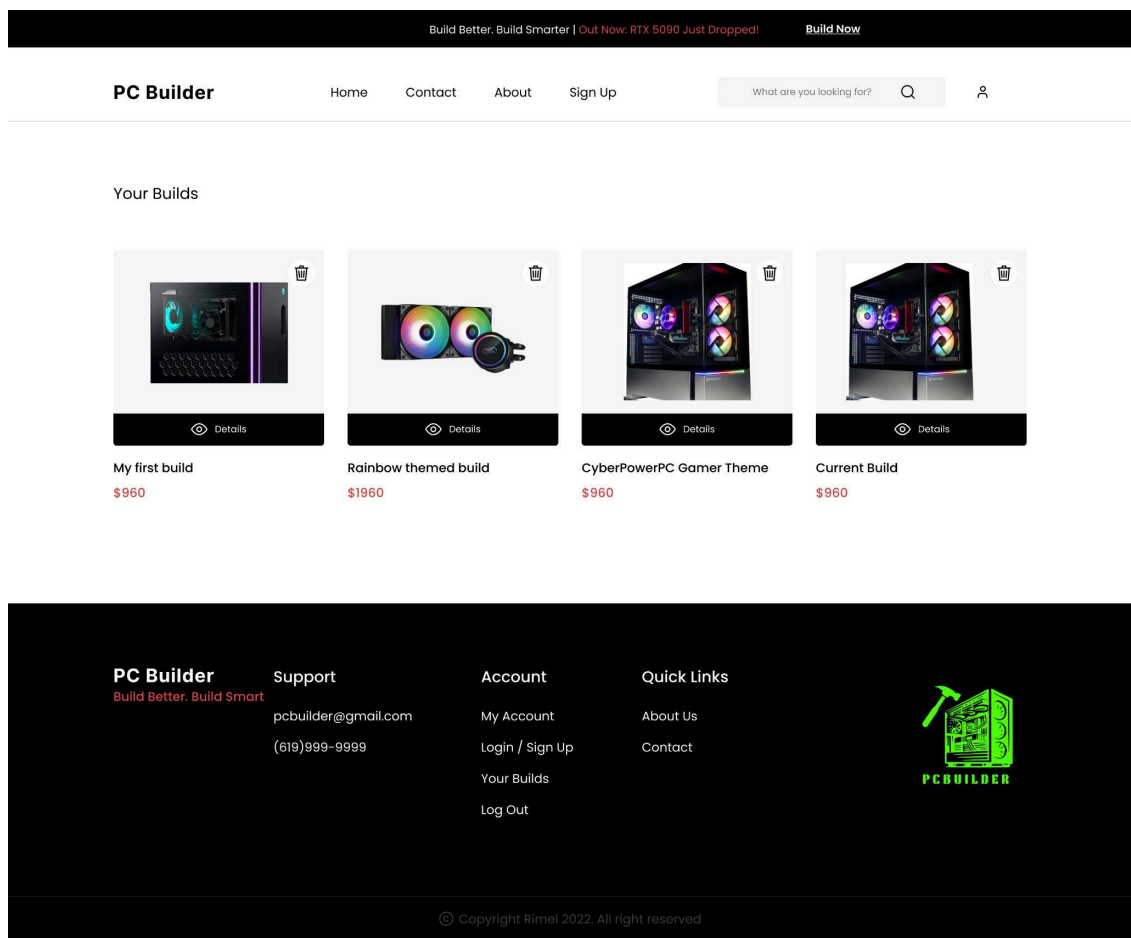
The Product Details page offers an in-depth look at the user's selected component, providing the information needed to make an informed decision for your build. An image gallery showcases the component, allowing the user to examine its design and physical features.

Below that, you'll find comprehensive technical specifications presented in an easy-to-scan format along with its price. The page includes a real-time price comparison section showing current offers from multiple retailers, helping you secure the best deal.

A user reviews section displays ratings and detailed feedback from other builders who have experience with this component.

An "Add to Build" button featured on the page lets you instantly incorporate this component into your current PC build, while automatically checking compatibility with your existing selections.

7. Your Builds











The Your Builds page is where you will be saving each one of your custom PC builds with a list of your chosen products. You will be able to click on each build to see details for that build.

8. Build Page

Build Better. Build Smarter | Our New RTX 5090 Just Dropped!Build Now

PC BuilderHomeContactAboutSign UpWhat are you looking for?

Home / Build Your PC

Component	Product	Price
Monitor	 LCD Monitor	\$650
CPU Cooler	 Cooler Master	\$550
Motherboard	 Asus ROG Strix	\$550
Graphics Card	 MSI GeForce RTX 5090 32G	\$550
Hard Drive	 Predator M.2 SSD 1TB	\$550
CPU	 Intel Core i7-12700K	\$550
Power Supply	 ASUS Prime Power Supply	\$550
Case	 RTX PC Case	\$550

[Return to Browse](#)[Update Cart](#)

Build Total

Subtotal\$1750

Shipping-

Total\$1750


Proceed to checkout

PC Builder
Build Better. Build Smarter

Support
pcbuilder@gmail.com
(616)999-9999

Account
My Account
Login / Sign Up
Your Builds
Log Out

Quick Links
About Us
Contact



© Copyrights Reserved 2023. All rights reserved.

Build page showcases the details of each custom PC build that shows what products are chosen and how much the total price is. From here users will be able to proceed to the check out page to buy the products they've chosen.


9. Check Out Page

Build Better. Build Smarter | Out Now: RTX 5090. Just Dropped!Build Now

PC BuilderHomeContactAboutSign UpWhat are you looking for?Q


Back to Shop

My OrdersTotal Items: 3




MSI Gaming
GeForce RTX 3060
12GB 15 Gbps GDDR6
★★★★★
Only 2 items left on stock

\$ 150Qty: 1



Intel Core i7
12700K Gaming
Desktop Processor
★★★★★

\$ 200Qty: 1



Predator M.2 SSD
1TB GM7000 with
DRAMCache NVMe 1.4
★★★★★

\$ 90Qty: 1

Payment Method

☒ Credit Card☐ Paypal

Credit Card Number

Card holder Name

Expiry DateExpiry YearCVC Code

Order Summary

Balance amount	\$ 68
VAT (21%)	\$ 14,28
Shipping Fee	\$ 10
Order Total:	\$ 82,28


Purchase

PC Builder
Build Better. Build Smart

Support
pcbuilder@gmail.com
(619) 999-9999

Account
My Account
Login / Sign Up
Your Builds
Log Out

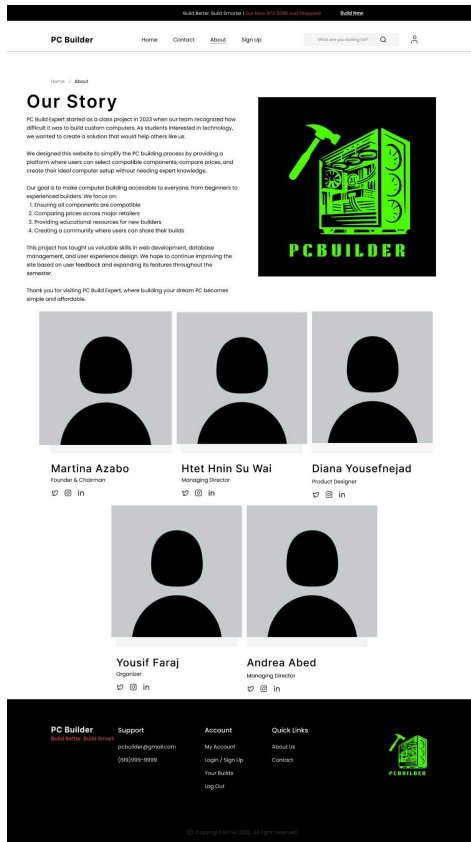
Quick Links
About Us
Contact



© Copyright Rimel 2022. All right reserved

After users check out their orders on the Build Page after finalizing their custom pc products, they will be taken to the check out page where they will input their payment information to order the products!

10. About Us



The About Us page will include a short description of how our website works and a brief background about the people behind the scenes. This page will also discuss why this website was made and why it could be useful to users who are wanting to browse through computer products.

11. Contact us


Build Better. Build Smarter | Out Now: RTX 5090 Just Dropped!Build Now

PC Builder

HomeContactAboutSign Up


What are you looking for?

Home / Contact

 **Call To Us**

We are available 24/7, 7 days a week.

Phone: +(619)999-9999

 **Write To Us**

Fill out our form and we will contact you within 24 hours.

Emails: pcbuilder@gmail.com

Your Name *

Your Email *

Your Phone *

Your Message

Send Message

PC Builder

Build Better. Build Smart

Support

pcbuilder@gmail.com

(619)999-9999

Account

My Account

Login / Sign Up


Your Builds

Log Out

Quick Links

About Us

Contact

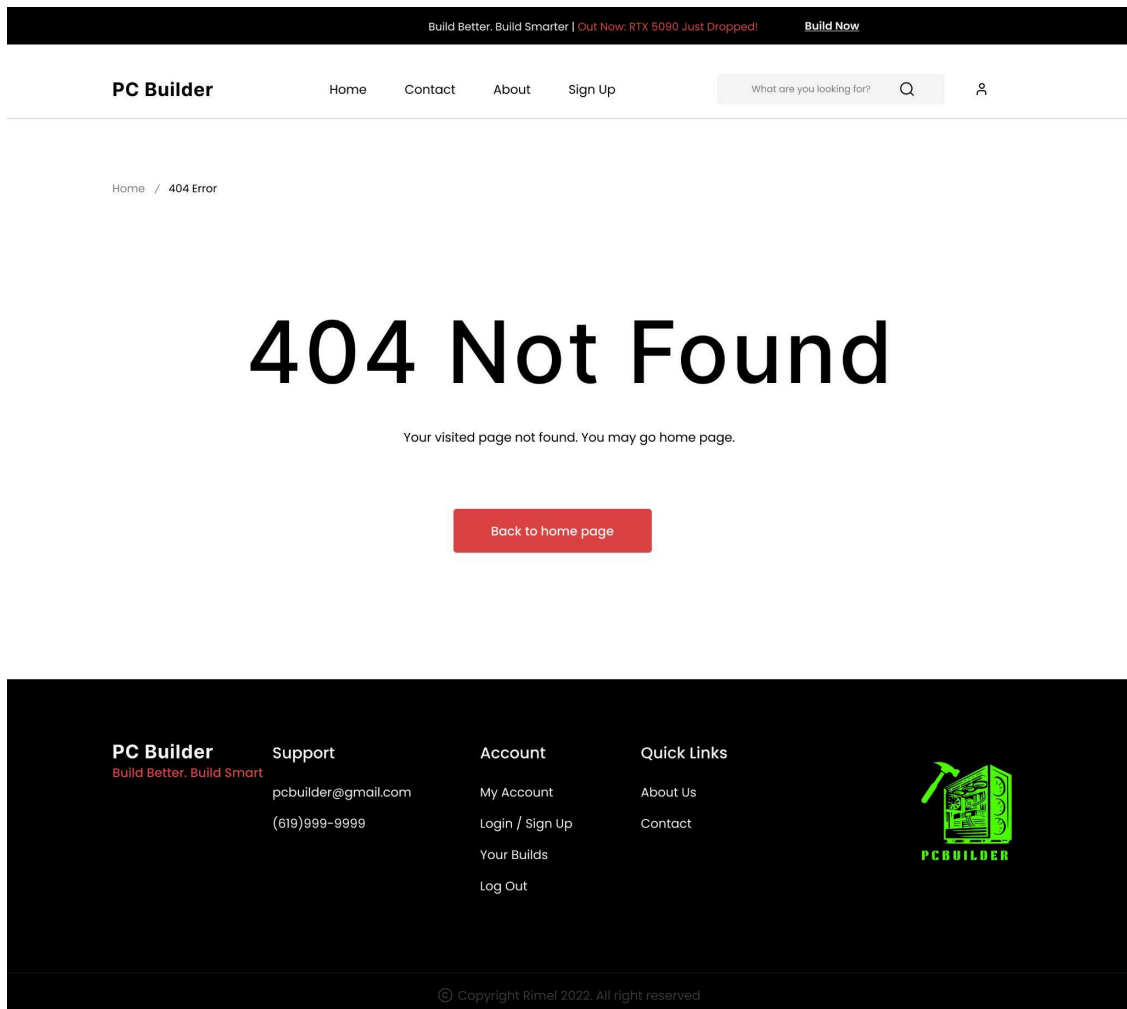


PCBUILDER

© Copyright Rimel 2022. All right reserved

This page of the website will show the email address and phone numbers of the makers of the website so that users can easily reach out to us if they have any questions or concerns.

12. Error Page



Whenever the website encounters a 'Page Not Found' Error, it will display this 404 Error Message Page to let the user know.