Abstract

In this project, we developed a web application aimed at enhancing user experience and streamlining specific tasks related to the online sale of computer peripherals, including keyboards, headphones, and CPUs. The application was built using a modern tech stack including HTML, CSS, JavaScript, and PHP for the backend. Our primary objective was to create a responsive, user-friendly interface that allows users to efficiently manage their tasks and track their progress. We employed an iterative development process. Key features of the application include user authentication, real-time data synchronization, and customizable dashboards. Through this project, we gained valuable experience in full-stack development and improved our skills in collaborative coding and project management. The final product is a fully functional online store that showcases our ability to develop and deploy a comprehensive e-commerce platform, providing a solid foundation for future work and further enhancements.

Contents

Introduction

Welcome to our innovative web application dedicated to enriching the online shopping experience for computer peripherals, ensuring a seamless and efficient journey for all tech enthusiasts. In today's digital age, where the demand for high-performance computing components like keyboards, headphones, and CPUs continues to rise, our platform aims to serve as a trusted hub for discovering and acquiring these essential tools with ease and confidence.

Our mission is rooted in simplifying the process of finding and purchasing computer peripherals. We provide a meticulously curated selection of products, meticulously vetted for quality and performance, accompanied by comprehensive specifications and user reviews. Whether you're a professional seeking cutting-edge hardware or an enthusiast upgrading your setup, our user-friendly interface is designed to facilitate informed decision-making.

At the core of our platform is a commitment to user satisfaction and convenience. We understand the challenges of navigating through a myriad of options and aim to streamline your shopping experience. Join us in embracing the convenience and assurance of online shopping, where securing your ideal computer peripherals is not just efficient but also enjoyable.

Project Requiremnts

The company tracks orders, each identified by a unique id, associated with a user (user_id as a foreign key), and records whether the order is complete (is_complete), the date the order was placed (date_order), and the delivery address (address). Categories are defined with a unique id, a name, and a description.

Order details are stored in the order_product table, which includes a unique id, and foreign keys to the order (order_id), product (product_id), and user (user_id), along with the quantity ordered (quantity).

Reviews are tracked with a unique id, and include the user (user_id as a foreign key) and product (product_id as a foreign key), along with the rating (rate). Users have a unique id, name, password, first name (fname), last name (lname), address, and a role (e.g., admin, customer).

Product images are stored with a unique id, the associated product (product_id as a foreign key), and the path to the image file (path).

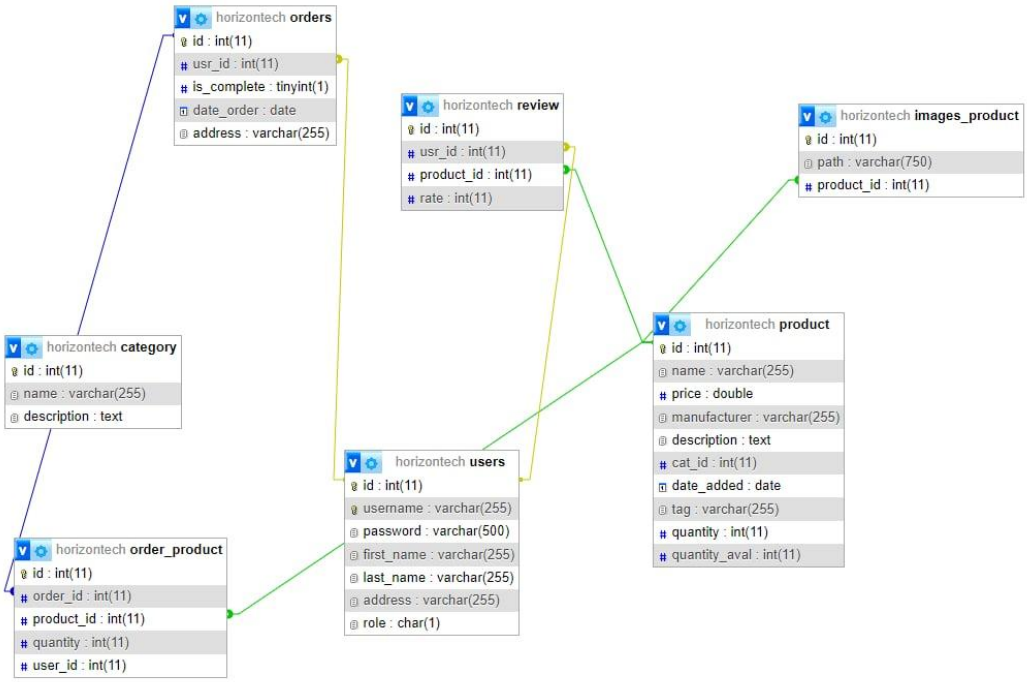
Products are identified by a unique id, and include a name, price, manufacturer (manufacturer), category (cat_id as a foreign key), description, date added (date_added), tags (tag), total quantity (quantity), and available quantity (quantity_available)

Tools Used In Project

In this project we have used a lot of ready tools which were very helpful to us in building this project. Such as libraries and frameworks to build both front-end and back-end

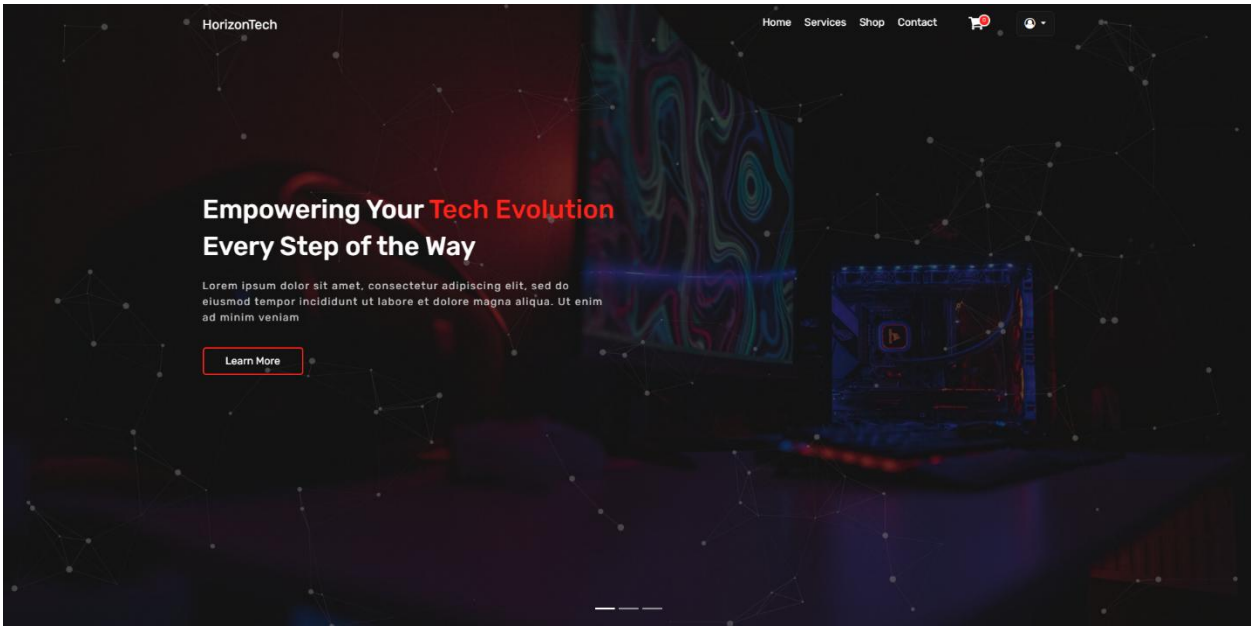
- HTML5
- CSS3
- JS
- Bootstrap
- Jquery
- AJAX
- Particles.js

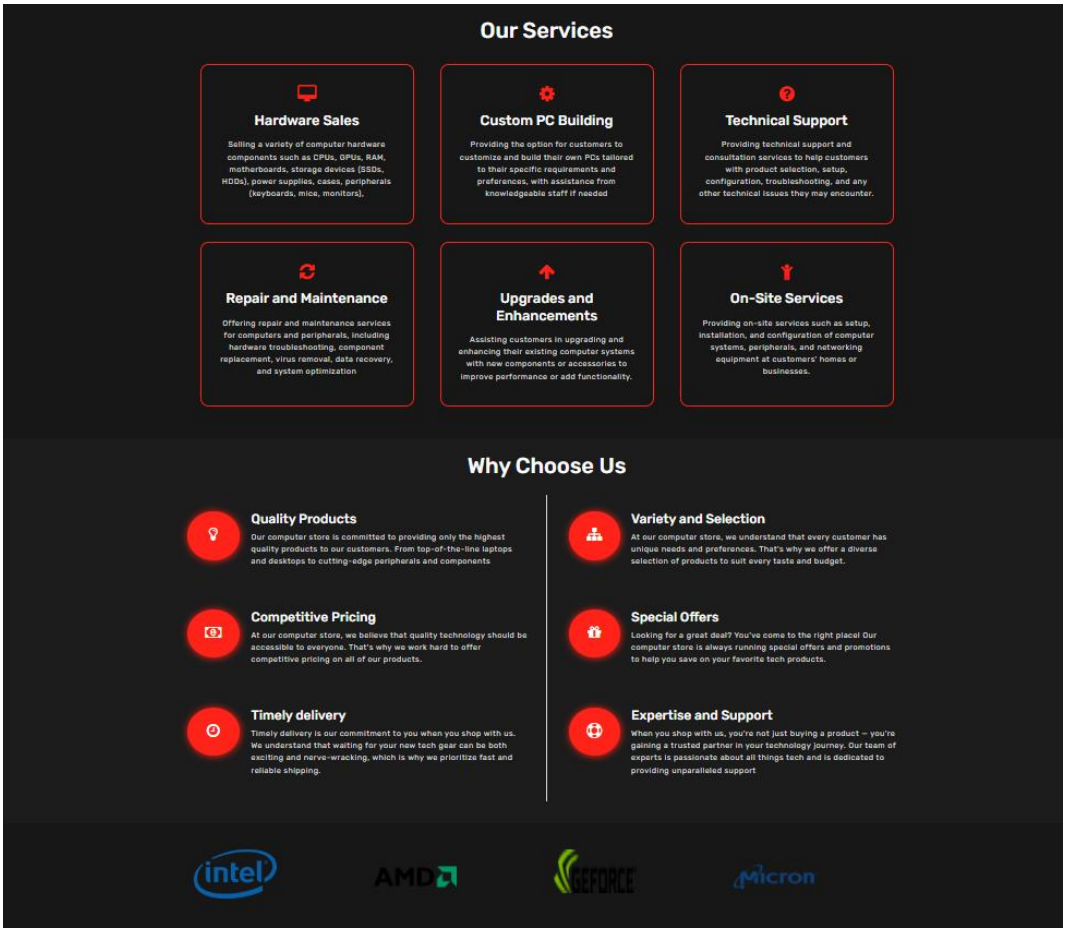
UML Project

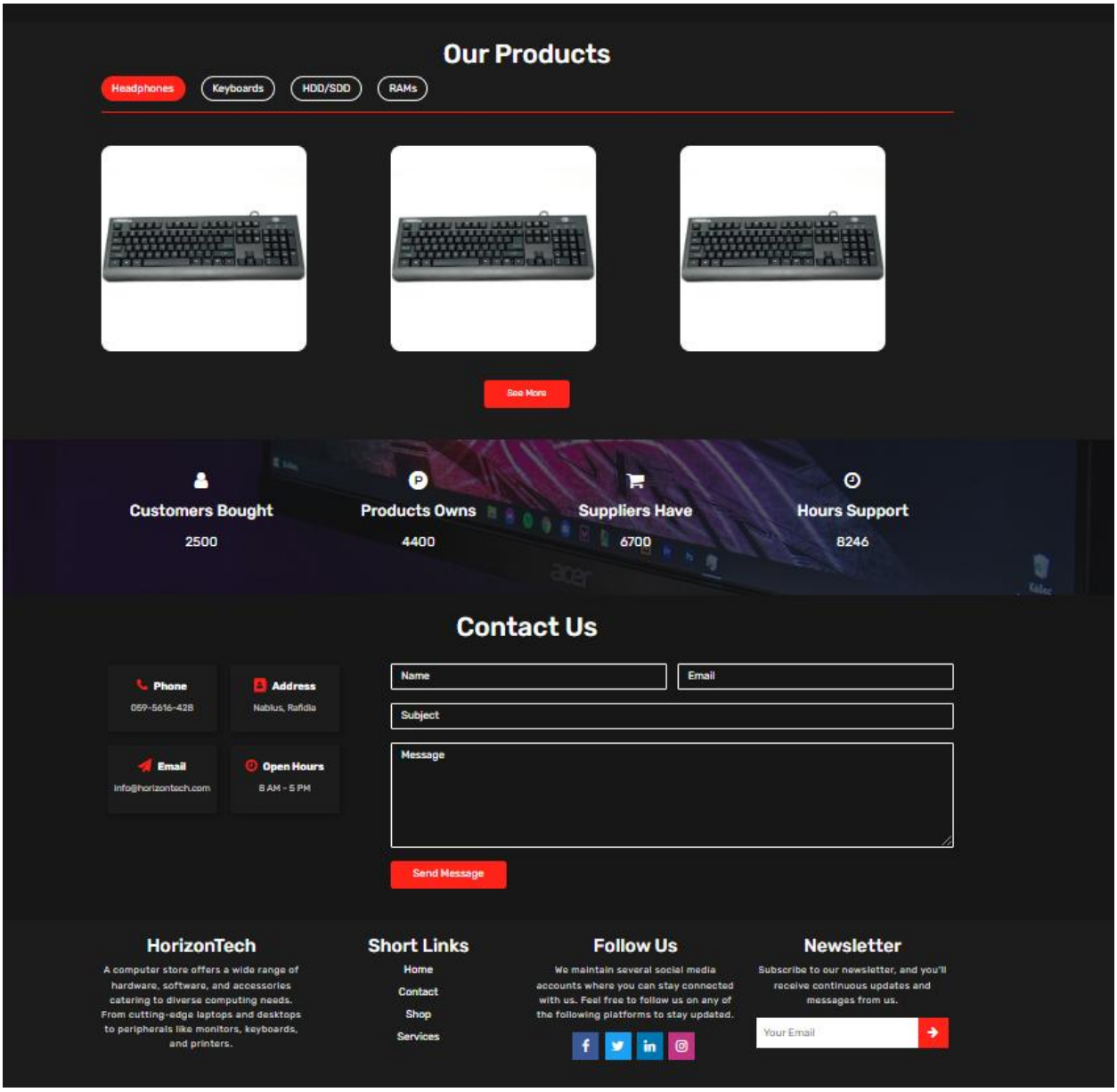


GUI WORK

Landing Page





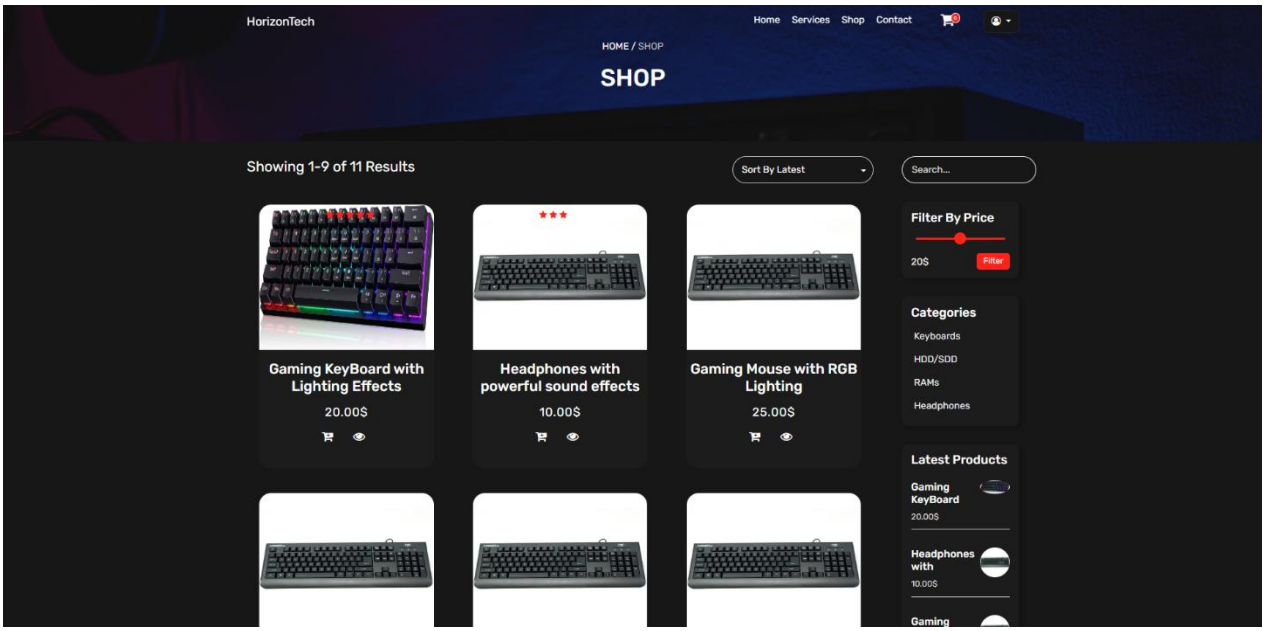


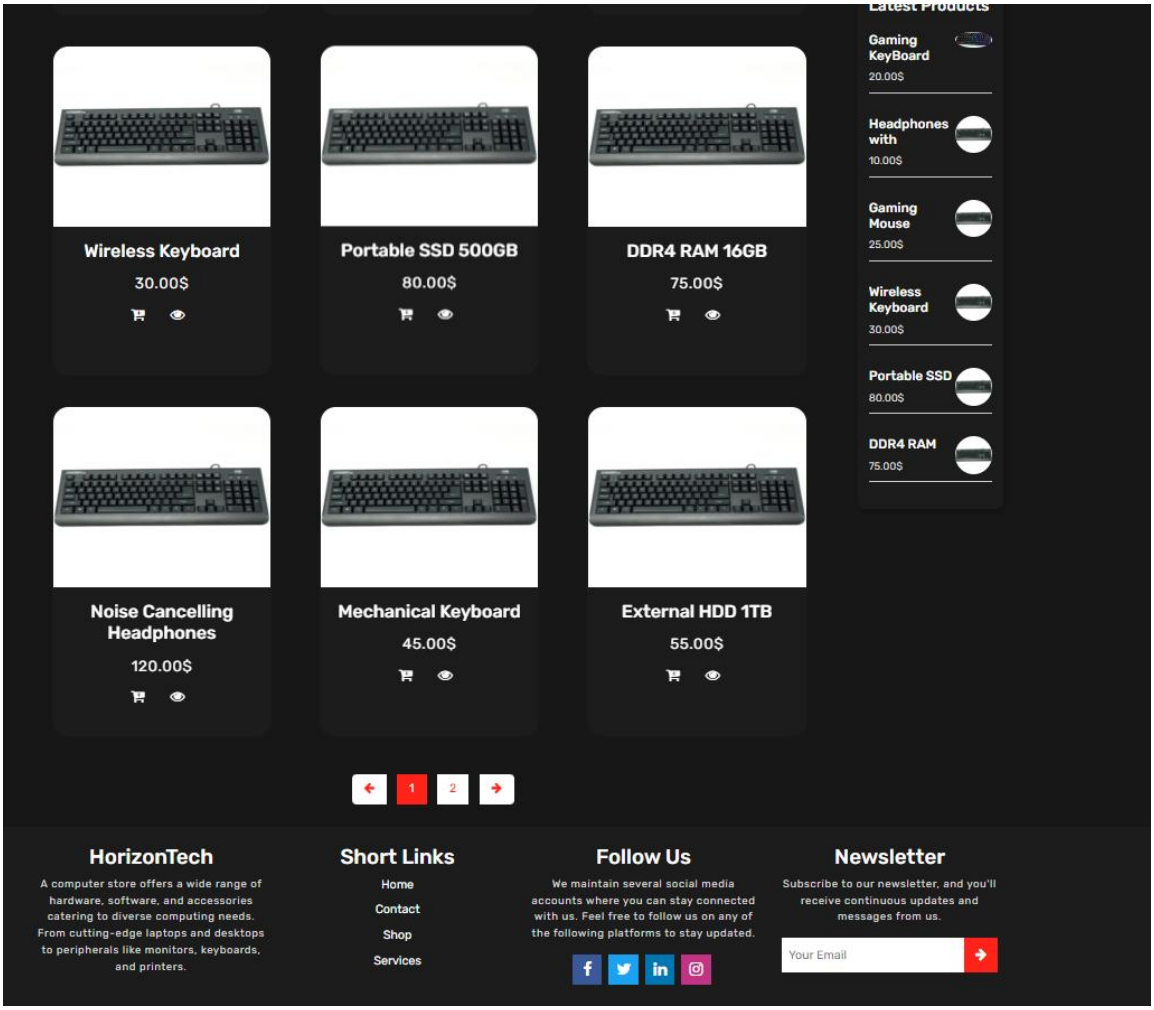
So this landing page is like welcome page for our project with some animations like particles.js, it introduces the project to user and the user knows what the project is.

We have contact us section to make the user be able to contact us via email.

Also the product section it shows some of products randomly from different categories.

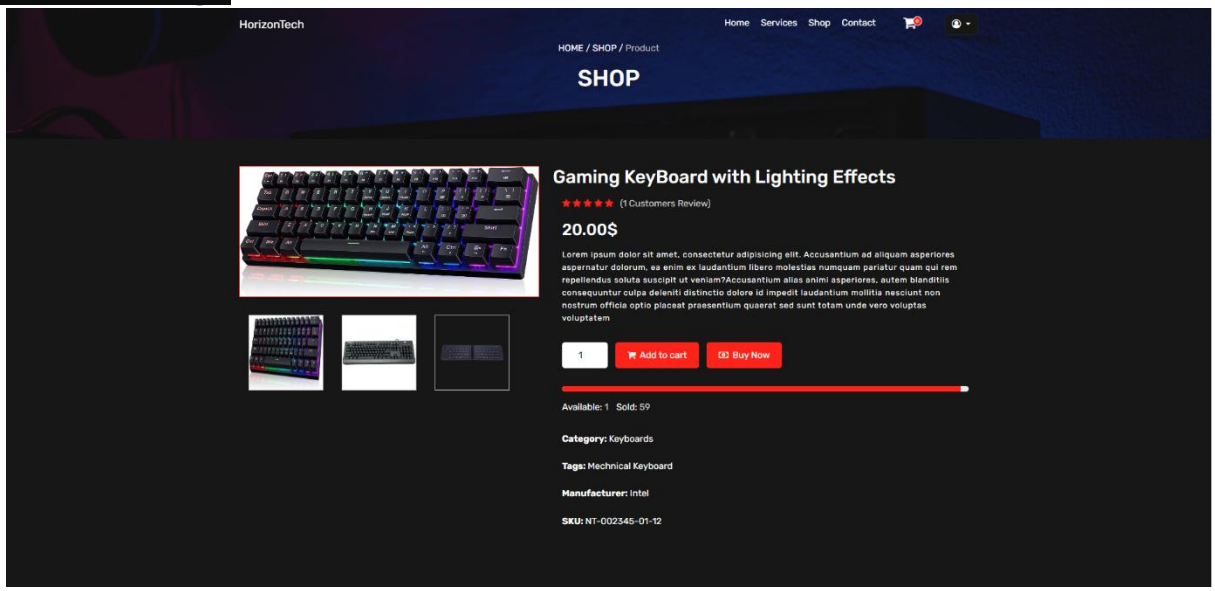
SHOP Page

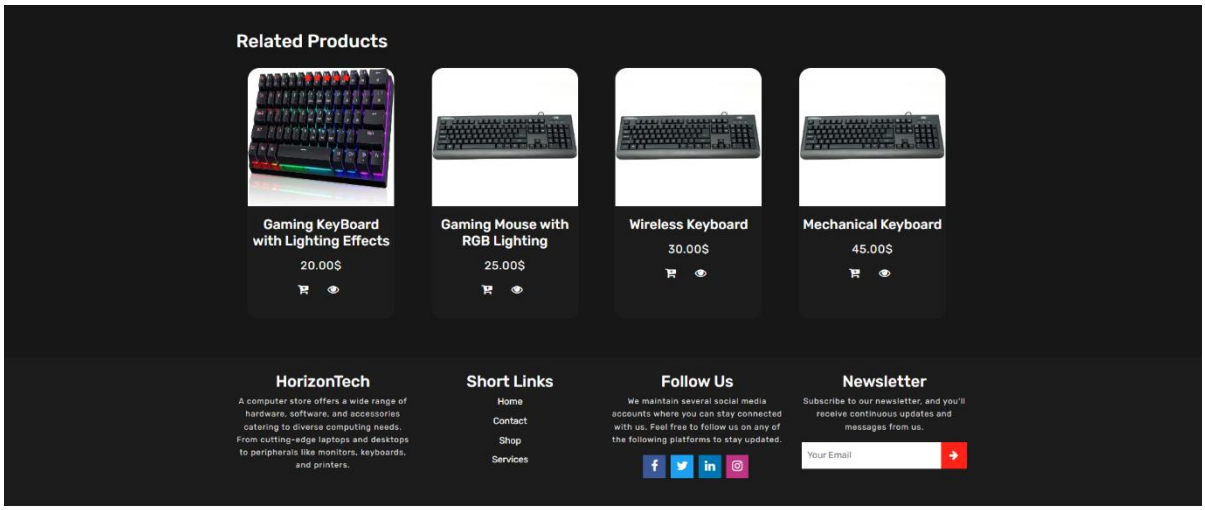

HorizonTech
Home Services Shop Contact
HOME / SHOP
SHOP
Showing 1-9 of 11 Results
Sort By Latest
Search...
Gaming KeyBoard with Lighting Effects
20.00$
Headphones with powerful sound effects
10.00$
Gaming Mouse with RGB Lighting
25.00$
Filter By Price
20$
Filter
Categories
Keyboards
HDD/SDD
RAMs
Headphones
Latest Products
Gaming KeyBoard
20.00$
Headphones with
10.00$
Gaming


Wireless Keyboard
30.00$
Portable SSD 500GB
80.00$
DDR4 RAM 16GB
75.00$
Noise Cancelling Headphones
120.00$
Mechanical Keyboard
45.00$
External HDD 1TB
55.00$
1
2
Latest Products
Gaming KeyBoard
20.00$
Headphones with
10.00$
Gaming Mouse
25.00$
Wireless Keyboard
30.00$
Portable SSD
80.00$
DDR4 RAM
75.00$
HorizonTech
A computer store offers a wide range of hardware, software, and accessories catering to diverse computing needs. From cutting-edge laptops and desktops to peripherals like monitors, keyboards, and printers.
Short Links
Home
Contact
Shop
Services
Follow Us
We maintain several social media accounts where you can stay connected with us. Feel free to follow us on any of the following platforms to stay updated.
Newsletter
Subscribe to our newsletter, and you'll receive continuous updates and messages from us.
Your Email

In shop page in the previous page , we shows all of products with advantage of search and sort products, also. We added a pagination below the products ,this will make users to move from page to page instead of scrolling all of products. We have on the right sidebar a filter that show user the products with range price he chooses.

Product Page



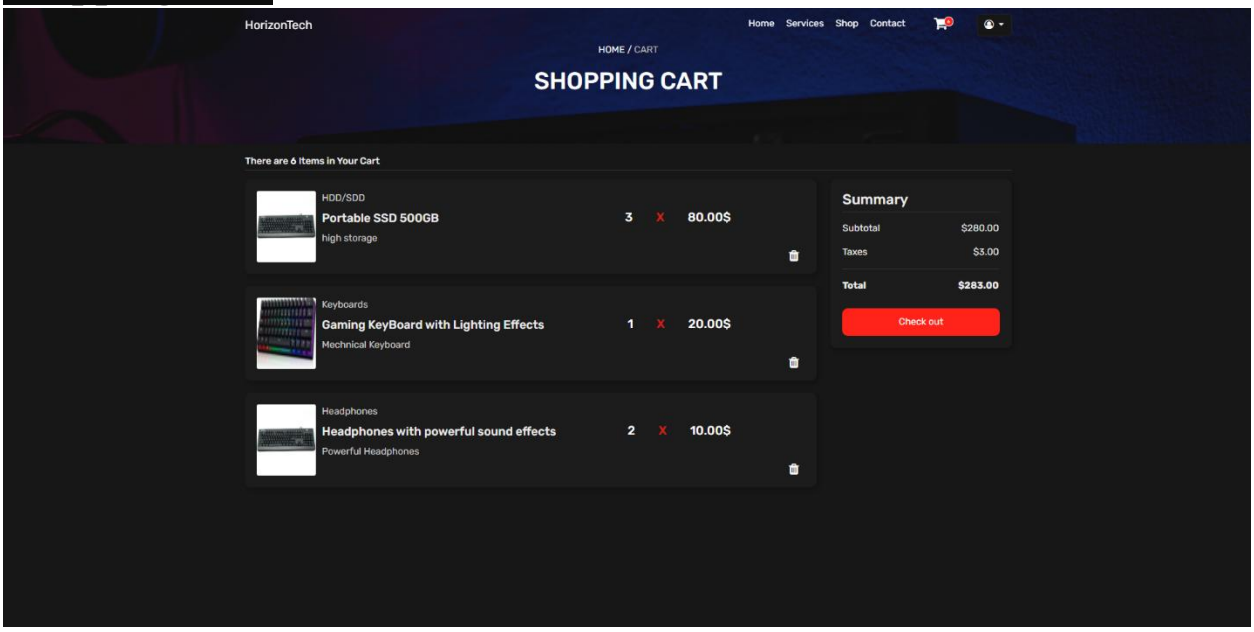


This product page aims to show a product information with title and description and reviews etc …

If the user who is logged in bought this product and haven't made a review , a single custom pop up window show to make a review and the review is recored in database.

Also user can add this product to his cart with quantity he wants.

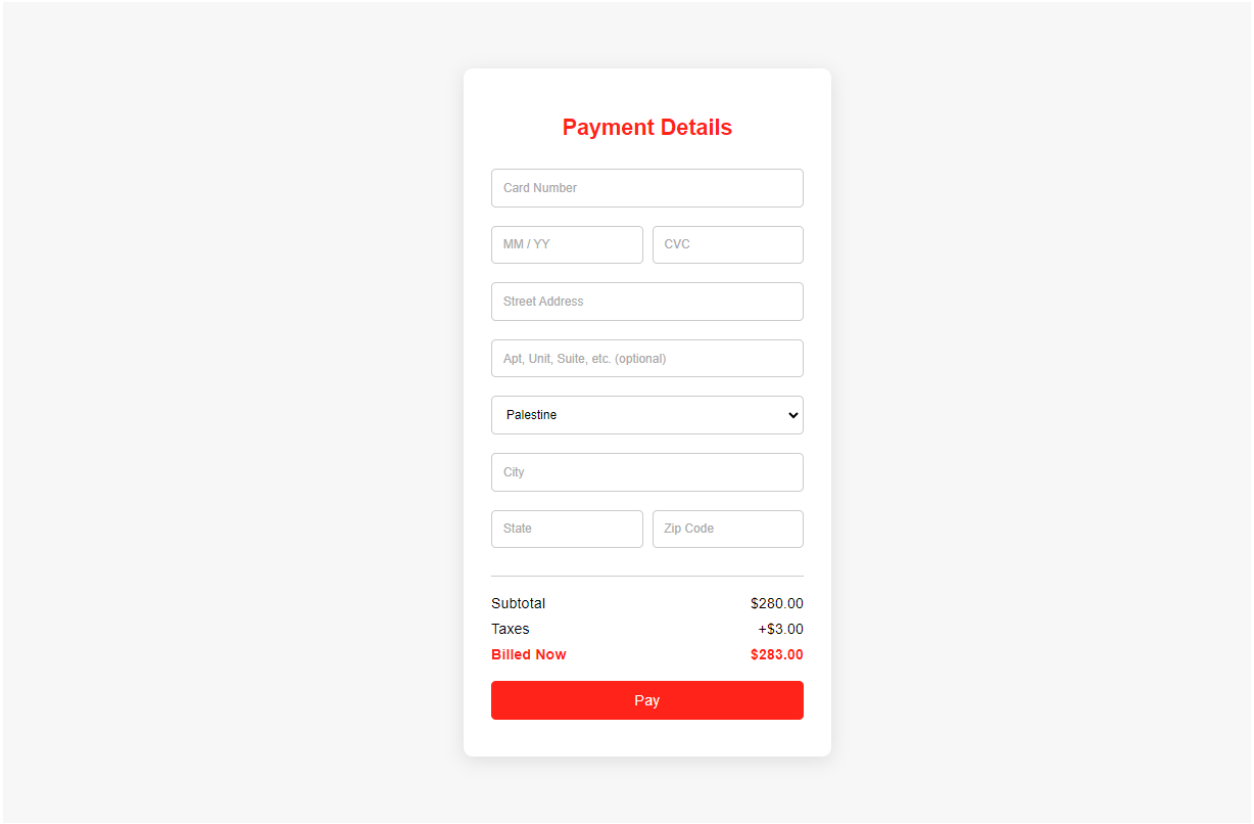
Shopping Cart



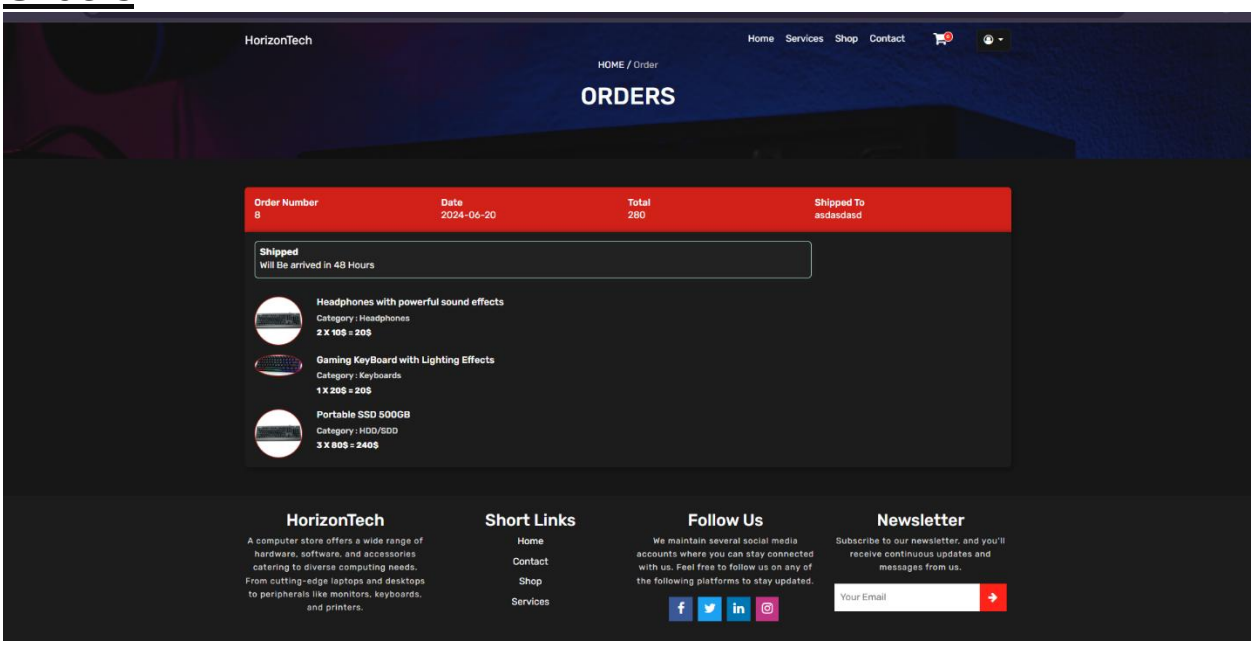
This shopping cart of the user , it stores the products in localstorage and the user can remove and see the total prices with taxes and without.

Also the user can checkout all of these products by clicking in checkout button

Checkout

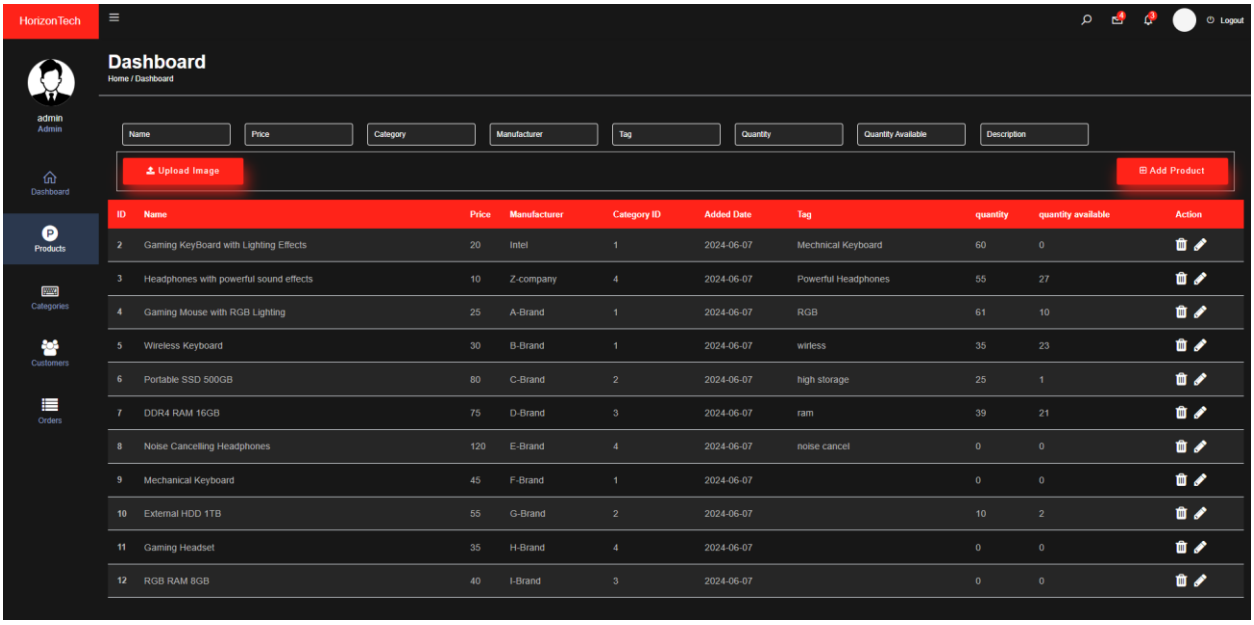


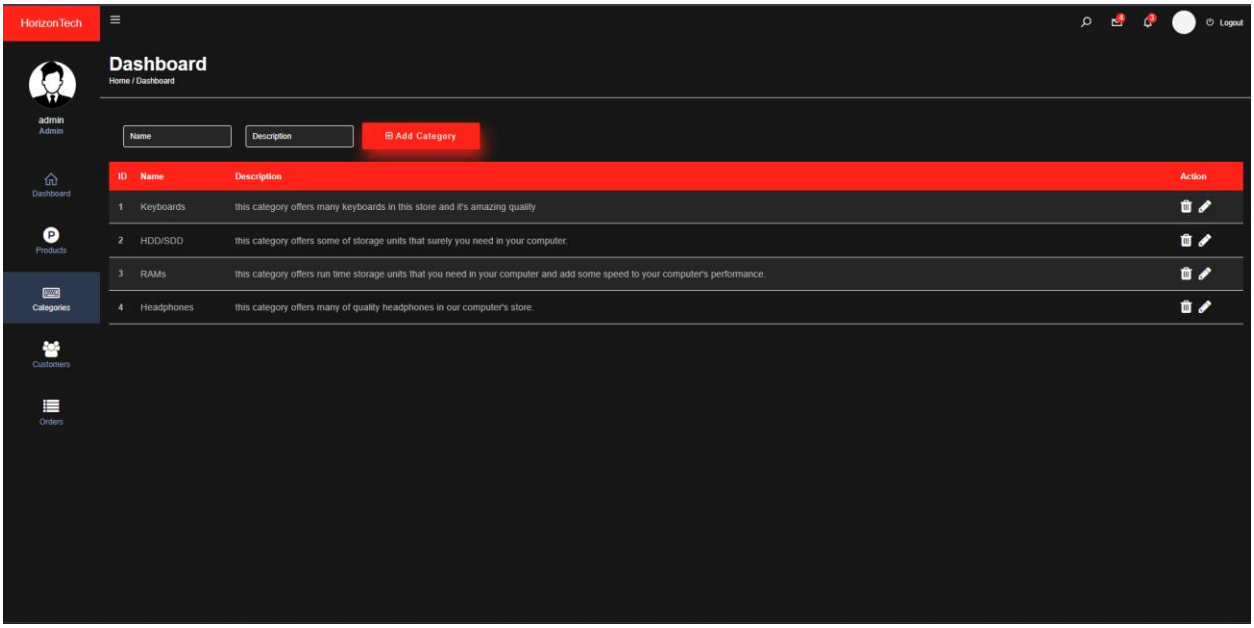
Orders

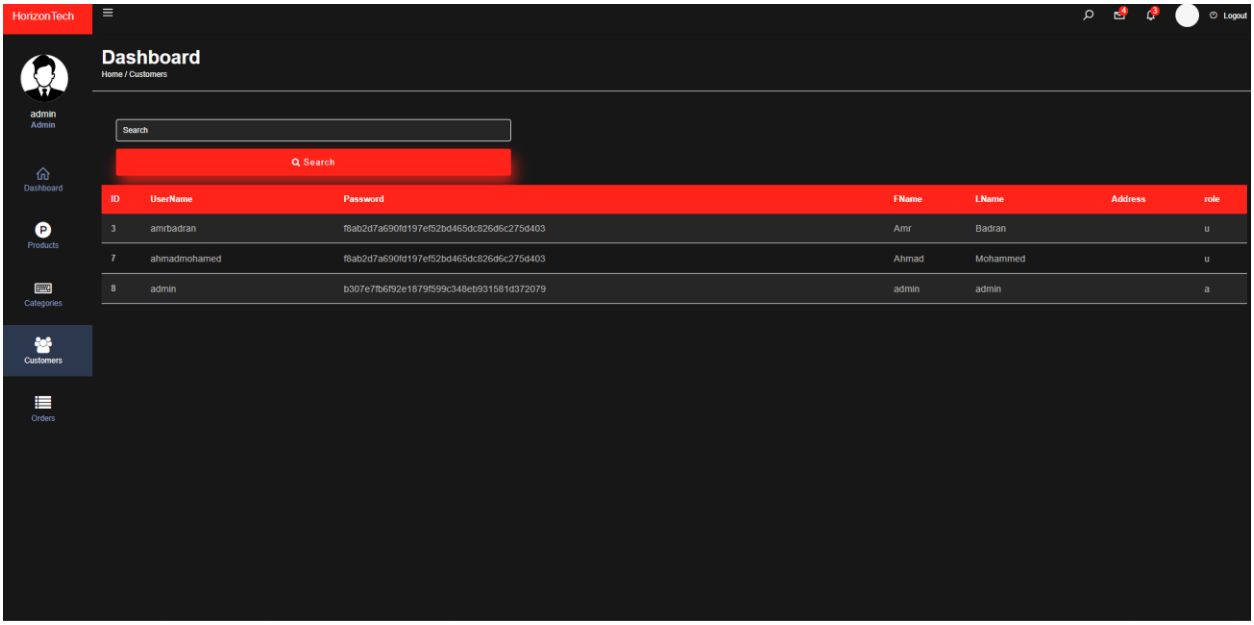


This order page which user can see all of products has bought and when it will arrive him and to where, automaticly order will be removed after two days (by trigger in sql) because the product must be arrived.

Dashboard




HorizonTech
Logout
Dashboard
Home / Dashboard
admin
Admin
Dashboard
Products
Categories
Customers
Orders
Name
Description
Add Category
ID Name Description Action
1 Keyboards this category offers many keyboards in this store and it's amazing quality
2 HDD/SDD this category offers some of storage units that surely you need in your computer.
3 RAMs this category offers run time storage units that you need in your computer and add some speed to your computer's performance.
4 Headphones this category offers many of quality headphones in our computer's store.


HorizonTech
Logout
Dashboard
Home / Customers
admin
Admin
Dashboard
Products
Categories
Customers
Orders
Search
Search
ID UserName Password FName LName Address role
3 amrbadran f8ab2d7a690fd197ef52bd465dc826d6c275d403 Amr Badran u
7 ahmadmohamed f8ab2d7a690fd197ef52bd465dc826d6c275d403 Ahmad Mohammed u
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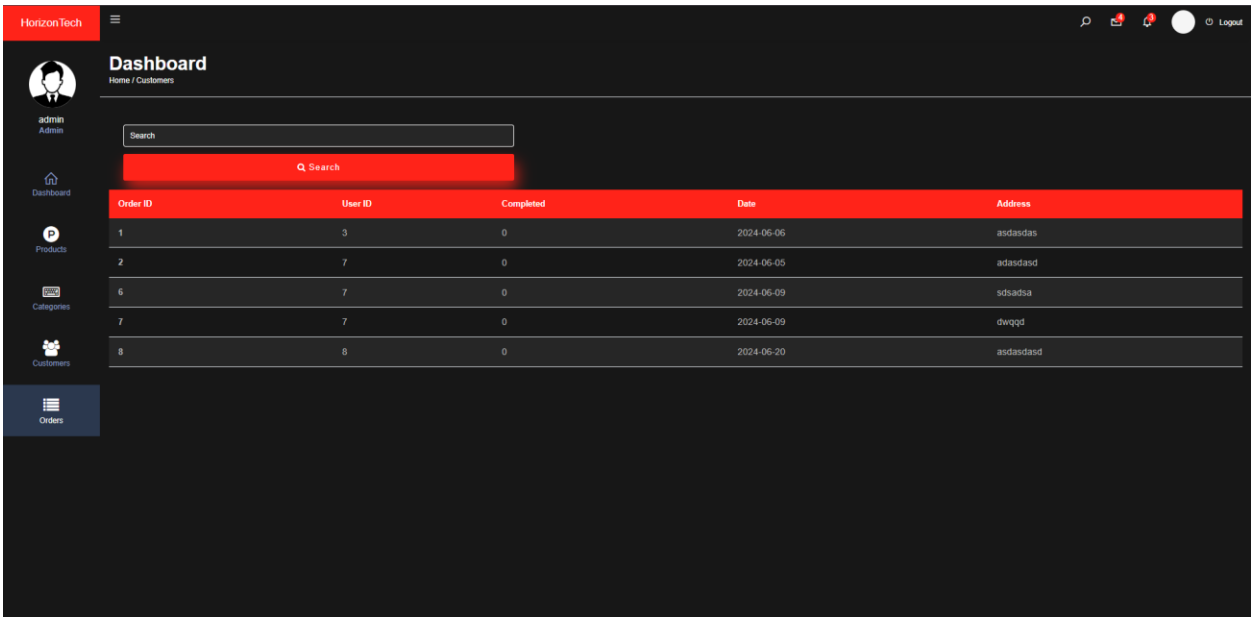

This is dashboard for admin only, he can insert and remove products from database and search for customer,orders.

He can see all of the data in database such as customers ,products,orders,categories.

Conclusion

enhancing the online shopping experience for computer peripherals. By leveraging a modern tech stack and employing an iterative development approach, we have successfully crafted a responsive, feature-rich platform. Through user authentication, real-time data synchronization, and customizable dashboards, we aimed to empower users with intuitive tools for managing their purchasing journey effectively.

Throughout this project, our team not only honed our skills in full-stack development but also demonstrated our commitment to delivering a robust e-commerce solution. As we look ahead, our platform stands as a testament to our capability to innovate in digital retail, offering a seamless interface for tech enthusiasts worldwide to discover and acquire high-performance computing components with confidence.

We are proud to have created a user-centric online store that not only simplifies product discovery but also fosters informed decision-making through comprehensive product details and user reviews. With a foundation built on quality, performance, and user satisfaction, our platform is poised for further growth and future enhancements in the dynamic landscape of e-commerce.

Join us on our journey to redefine online shopping for computer peripherals, where efficiency meets excellence, and every click brings you closer to your ideal tech upgrade