



BIG BUY(E- COMMERCE) by using MERN

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ABSTRACT

We live in the era where everyone wishes to develop and do things quickly. As a result, our generation is increasingly interested in the internet, which allows us to live more easily. The great majority of people rely on science to direct their lives and meet their basic requirements. The majority of people in our technology use e-commerce websites to buy clothes, groceries, and electronics. E-commerce does not usually relate to a website where you sell your items and buy someone else's. I created an E-Commerce website using -Full Stack web development technologies such as HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB, Stripe, Cors, Helmet, Morgan, speech recognition APIs, Dotenv, Mongoose, Node Mailer, bcrypt, email Validator module of Node JS. The tabs on this website are entirely responsive. There are several sites on the page which you can travel to the information by clicking on the buttons or sections, such as "Home," "Category," "Blog," "Contact," and so on. The website's "Add to Cart" and "Product Information Tabs" now have their own area. We have a mail subscription option, a voice search section, a log-in area, a Stripe payment gateway, the ability to add items to carts, and the ability to get data from MongoDB and render using IDS. Some of the site's tabs are mobile-friendly. The Category Section has subsections featuring merchandise classified by category. And To make our website more appealing, we employ smooth transitions, and our website is user-friendly. As a result, the user experience will certainly improve. In addition, to build a more user-friendly UI, I used additional CSS, JavaScript, product PNGs, and a few historical images. We can buy a number of phone models and select unique phone types using this internet depending on consumer preferences. We'll add unique components to the current project while also deleting them. They can effortlessly add products to your shopping cart. We have a pricing button that is responsive when the back-end is connected to the website after the goods in the order are supported.

KEYWORDS: HTML, CSS, JAVASCRIPT, ExpressJS, MongoDB, Stripe, Cors, Helmet, Morgan, speech recognition APIs, Dotenv, Mongoose, Node Mailer, bcrypt and email Validator Modules of NodeJS.

1. INTRODUCTION

We are all aware that in today's environment, technology has become an essential tool for web marketing. We can see that the majority of people around the world are interested in acquiring products through the internet. But, we can see how many small retailers and supermarkets sell their products offline. The majority of us will have a bad experience with this type

of selling. The consumer may not recall it, or the customer may demand the product immediately, in which event he will visit to shop, however the merchandise is already out of stock, resulting in an unpleasant experience. Furthermore, customers may choose from a wide range of products based on their preferences and budgets, and they can compare prices from one store to another via online shopping. After



Fig 3: E-Commerce seller to buyer process

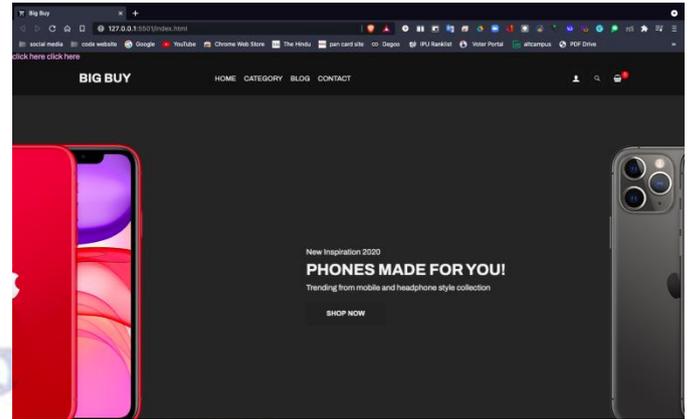


Fig 6: Animation



Fig 4 : Difference between Front-end vs Back-end

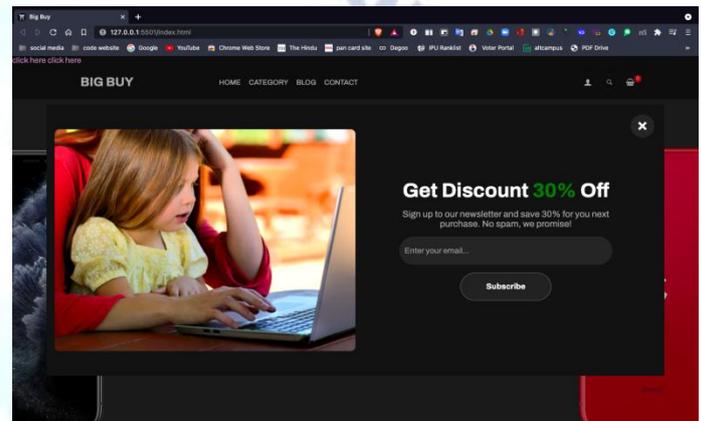


Fig 7:Discount pop up

3. E-COMMERCE WORKS

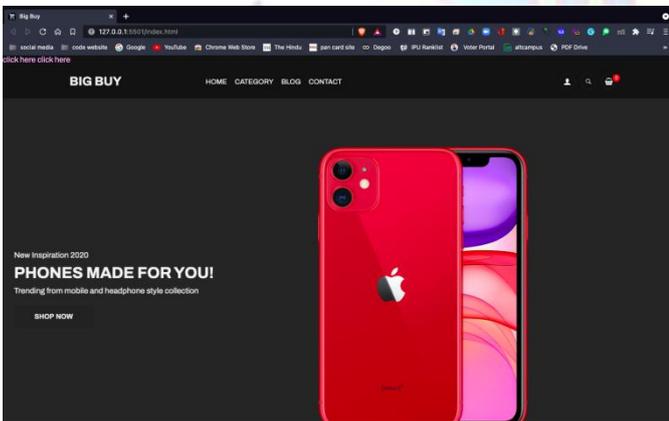


Fig 5: Home Page

This is the homepage of my website where I made essential Sections like Home, Category, Blog, Contact, login, search button, add to cart etc. This website is responsive if you will click on any button or any section it will be redirected to content or section.

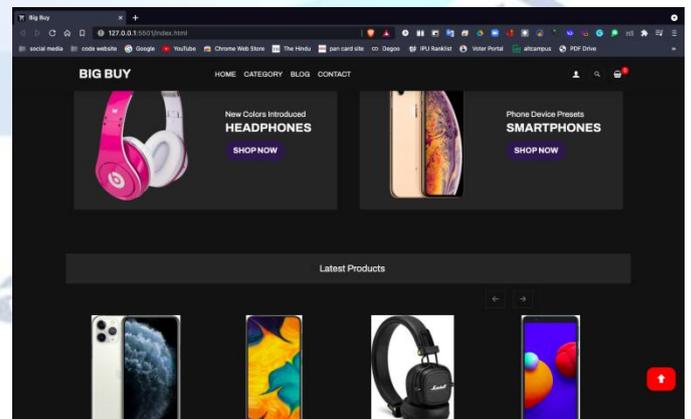


Fig 8:Latest Products Section

This is the portion of the website where users may buy new and the latest products based on their interests, and

new generation and electronic devices will emerge in the section of latest products.

CATEGORY SECTION:

These sections are come under the category and these are subsections of the category:-

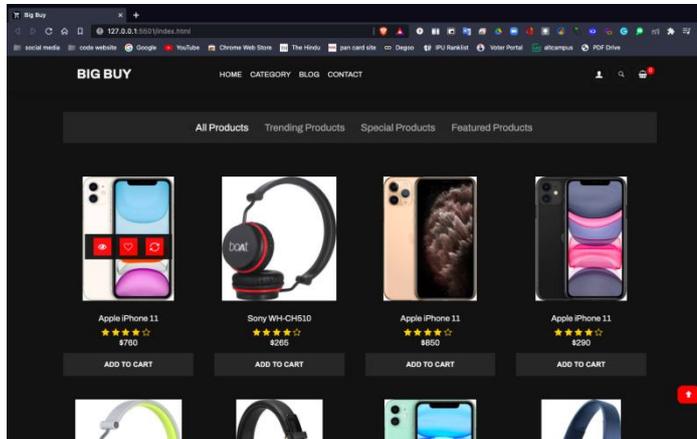


Fig 9: All Products

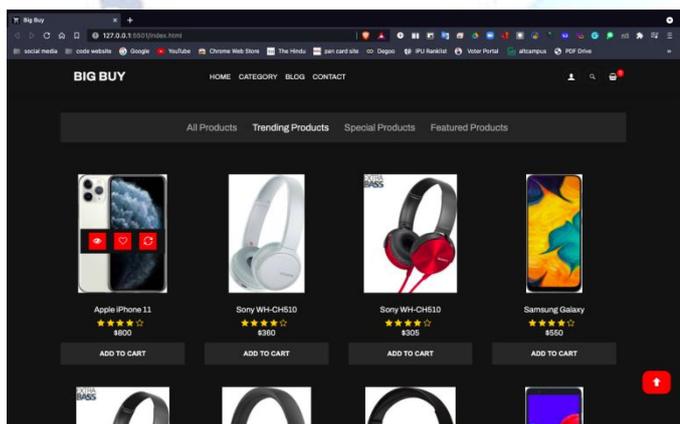


Fig 10: Trending Products

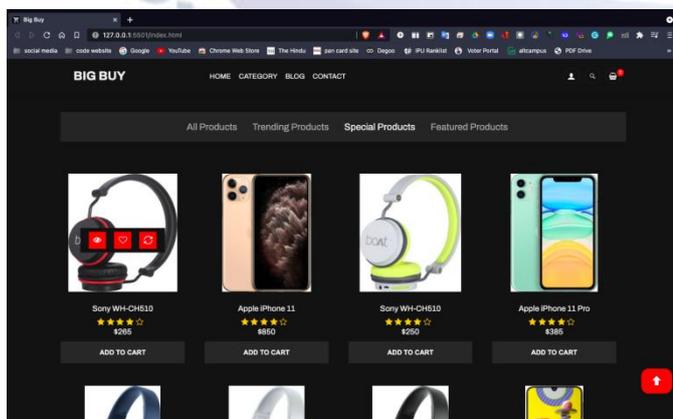


Fig 11: Special Products

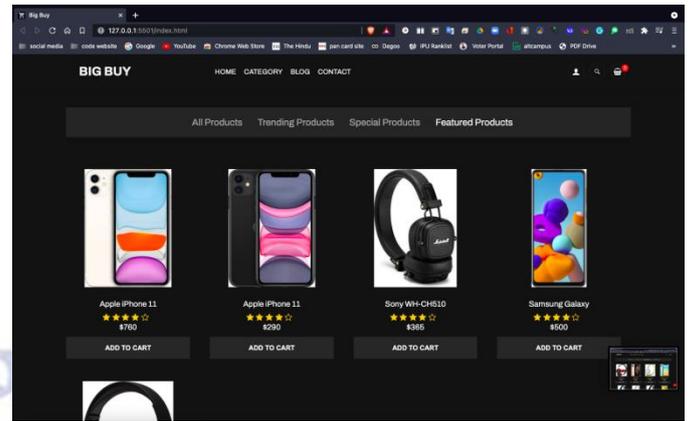


Fig 12: Featured Products

These are the divisions and subsections in the category.

BLOG:

It's in that blog section. Here are the some blogs of the website and there are some blogs about products and items where you can read.

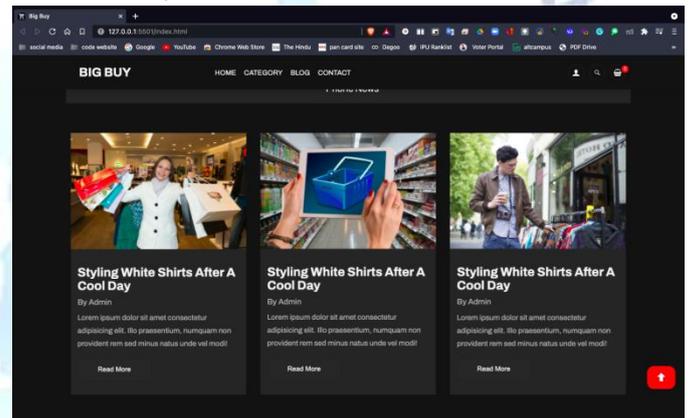


Fig 13: Blog Section

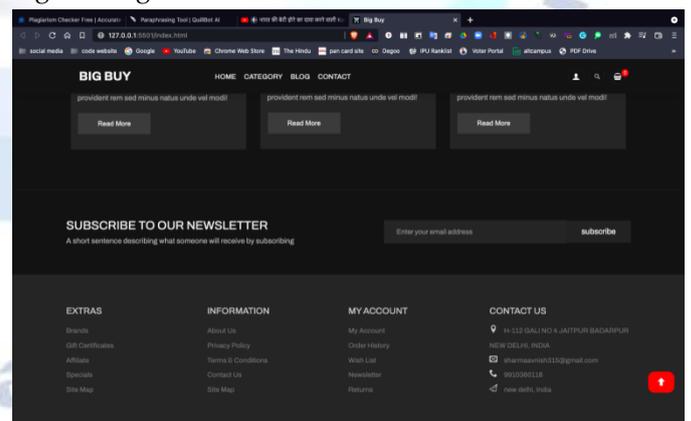


Fig 14 : Contact Section

This is the cart section where you can add your product by your own interest wise and the product you can delete by delete button, and you can increase and decrease the quantity by the plus button and minus button.

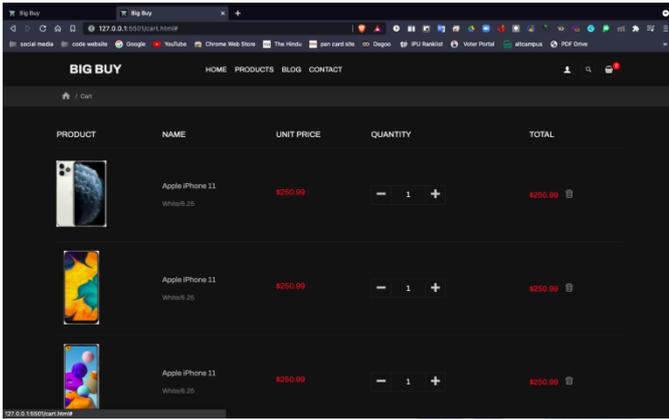


Fig 15 : Cart Section

This is the area where we are going to get the information about the merchandise you desire to shop for and you may be in a position to see the reviews and you may exchange the coloration and dimension of the merchandise and consequently the quantity of what wide variety of products you would like to store for and also the price will appear

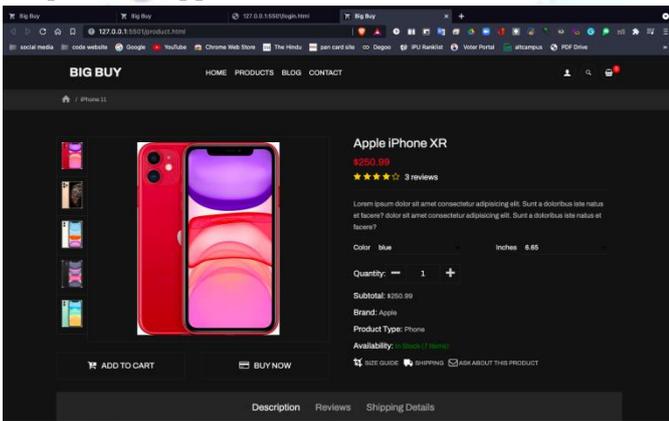


Fig 16: Product Information Section

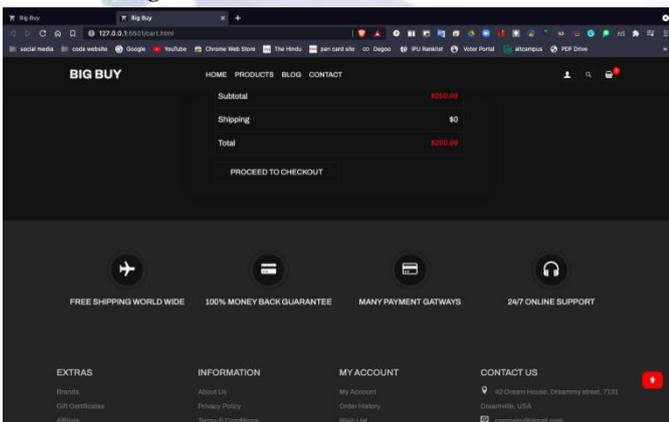


Fig 17 :Some Other Options

This is a web page where you may be able to create and log into your account and this can save your details and therefore the account will stay identical if you log in after an extended time. Your account and your details will remain saved and safe.

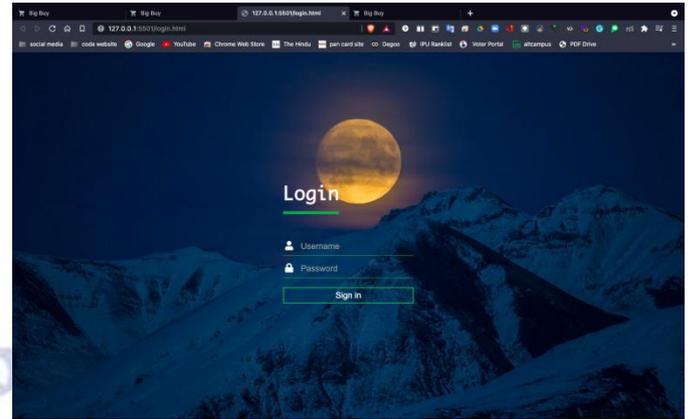


Fig 18 : Login Page

HTML CODE:

This is the HTML code of the Homepage and where you'll be able to edit supported your requirements.

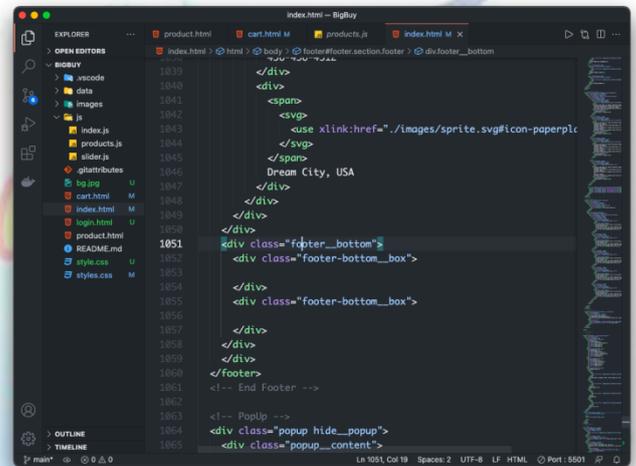


Fig 19 : HTML code

CSS CODE:

This is the code of CSS of whole website and the CSS of login page is separate and the except login page you can change whole CSS of the website.

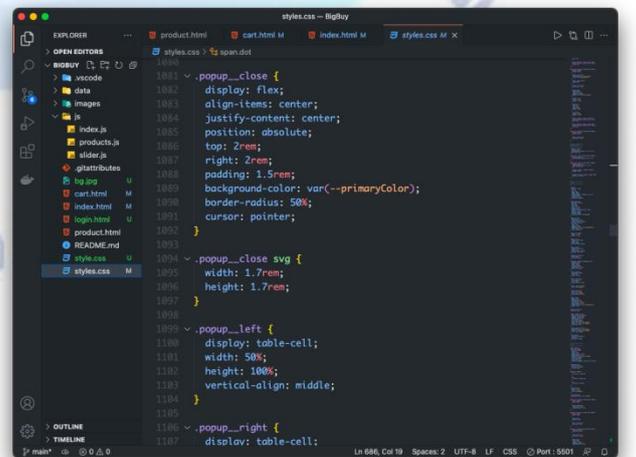
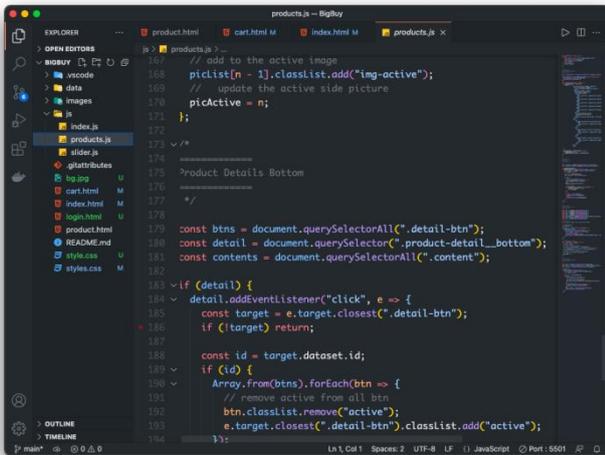


Fig 20: CSS code

JAVASCRIPT CODE:

This is the JavaScript code of the product information section.



```
164 // add to the active image
165 piclist[n - 1].classList.add("img-active");
166 // update the active side picture
167 picActive = n;
168 };
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179 const btns = document.querySelectorAll(".detail-btn");
180 const detail = document.querySelector(".product-detail_bottom");
181 const contents = document.querySelectorAll(".content");
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Fig 21 : JavaScript Code

My project's name is Big Buy. Big Buy is a web-based store. Electronic commerce (e-commerce) is the activity of purchasing and selling goods and services over computing networks such as the internet. This website is designed using front-end web development, and I utilised animations to make it more appealing. The UI (User Interface) is basic and efficient, allowing a typical user to interact with the website effectively. My website was built using HTML, CSS, and JavaScript. E-commerce websites are important in today's world because they allow you to buy anything from the comfort of your own home and have it delivered to you. The goal of every E-commerce website is to assist clients in narrowing their search.

4. CONCLUSION

The major purpose is to use front-end development to construct an e-commerce electronics item selling web application. Despite the fact that the stock market and commodities were in free fall, E-Commerce was able to endure and get a significant volume of transactions. E-commerce provides a significant possibility for our activities in Malaysia. Incorporating fresh techniques and styles into a transaction is also important. It is genuinely far superior to bring the goodness of a person or a state by using the vast E-Commerce available in the Internet globe... Our project is only a side effort to help folks who need to manage their project work. There have also been other user-friendly coding systems established. This package will be very successful in satisfying all of your

demands. In India, the entire E-commerce business is expected to have a bright future. However, the internet business is quickly expanding internationally. E-commerce is confirmed as the primary method of advertising items and services in the near future. E-commerce has surely gained popularity in our culture. Companies who take E-Commerce seriously and invest adequately in its growth will be successful in the future. E-commerce is more than a technological issue; it is a full-fledged economic operation. Companies who take it as an excuse to completely redesign their company procedures are likely to learn. Furthermore, E-Commerce may be a useful technology that allows clients to connect with businesses and corporations all over the world.

Conflict of interest statement

Authors declare that they do not have any conflict of interest.

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