

ELECTRONICS WEBSTORE APPLICATION USING PYTHON

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ABSTRACT

In our day to day life, the business was changing very fast. It's tremendously significant must be able to react as quickly and effectively as possible to customer needs. Should your clientele want to be able to view your company online and obtain your goods or services right away. An online application for lifestyle e-commerce is online shopping. wholesales various fashion and routine products. This project allows viewing various products available enables registered users to purchase favourite products instantly using PayPal expense processor and also can place choose to pay cash on delivery for your order. This undertaking offers an relaxed contact briefs placed utilizing the Pay Later and Instant Pay options are viewable by administrators and managers. Server and client side are among them, as well as multi-tiered architecture scripting techniques, operation technologies such as Relational databases, ASP.NET, and programming languages. The goal was to create a rudimentary website with a shopping cart application for the user and to learn about the information that goes into developing such an application.

Keywords: e-commerce, online shopping, web-based application, payment, customer

INTRODUCTION

E-commerce is a haphazardly adopted business standard that is believed in and

utilized. An increasing number of business dynasties are using websites that are designed to be used for profitable online transactions. It is accurate to state that online purchasing is becoming a daily occurrence.

The goal of this project is to transform an existing general determination e-commerce site so that products like clothing can be purchased online while lounging in comfort.

E-commerce has twisted a new measurement and attraction in acquiring harvests and services in the current world through expertise such as the Internet . We even feel more interested in poignant the article online to get a greater sense of its form, size, and value. Why venture out somewhere when all you have to do now is only choose the artefact, place an order with a compensation method, select a carriage service, and then relax and wait for you purchase to be transported straight to your doorstep. Moreover, the COVID- 19 pandemic forced us to intend newly and use the repayments of material and statement technology to maintain social capitals, which is the key to circumventing infections. Different shopping is the major part of our daily lives and coming peoples in contact with each other.

E-commerce has been usually adopted in settled countries in advances of information

and communication tools. Moreover, in today's world, the e-commerce sector is very important across both developed and unindustrialized nations. It has a significant impact both on the regional and global economies. According to recent study reports, e-commerce has a favorable impact on the real advancement of the country's economy, and this involvement will be continued to cultivate. There seems to be no quarrel that the trend of technology advancement will elevation an organization's overall sales and production. The growth of e-commerce is dependent on people's ability to use the services of information and communication technology.

LITERATURE SURVEY

There are many different sorts of e-commerce, but the most dominant are Business-to-Business (B2B), Business-to-Consumer (B2C), and Consumer-to-Consumer (C2C). The B2B deals business-to-business transactions in which stock is sold through a third-party midway. This sector accounts for almost 80% of all e-commerce. A business deal between a manufacturer and a wholesaler, or a wholesaler and a retailer, is an example of B2B. Again, the business that is handled directly between the wholesaler and consumers via a website is the B2C model [10]. Organizations and companies exchange goods and services to customers over the Internet for personal use in the B2C model. Finally, the C2C is the most rapidly expanding sort of e-commerce. Businesses only provide a venue for advertisers to market their products, and customers can purchase them straight from the vendor. Businesses facilitate the setting where consumers buy and sell goods and services directly to one another in the C2C model. E-commerce is also a becoming a very popular in Bangladesh with improvement in

information and communication sectors and contributing to national economics.

METHODOLOGY

To Overcome such types of problem or a defect, we are using various methods and features Like ecommerce web hosting, increasing security levels of users, by using various methods or APIs of google and much more other options and various tools guide lines or messages to use their sites.



Fig 1: Flow chart of seller e commerce

2.1Description:

- ▶ Anyone can sign up and browse the things that are available.
- ▶ Regardless of amount, only registered members are able to purchase numerous products
- ▶ Admin can be contacted via the Contact Us page with any questions.
- ▶ The roles Visitor, User, and Admin are accessible.

- Guests can view the products that are available.
 - An administrator has additional rights, such as full visitor and user privileges.
 - The user is able to browse and buy things. The administrator has the ability to add, modify, and remove products. The administrator has the ability to add, amend, and remove users.
- ✓ Admin can ship order to user based on order placed by sending confirmation mail.

SYSTEM ARCHITECTURE

Existing Systems:

When we look at the current systems, we see that they are all giving the customers access to all the things they need in a rather disorganized way. Instead of helping the application, they are forcing unwanted and desired things onto the customers' displays, confusing the user. Additionally, we can see that there isn't a platform at the same moment.

only for electronics products, as the majority of our daily activities these days rely on them, and as a result, electronics products do not receive the appropriate level of attention. Thus, it can be concluded that at this time, there isn't a web application that is steadfast to the sale of electronics and arranges the needs of the consumer while also considering user experience. It is also crucial to note that several of the current systems have experienced several security problems, including breaches relating recognition card data. Factors like transaction security and safety should be prioritized when discussing e-commerce applications and online buying. Where a product is sold on an online platform

Proposed Work:

The online application is constructed using popular open-source technologies, such as the Django REST Framework and React, which is currently one of the highest-paying technologies. React is a frontend JavaScript bundle used mostly for creating user interface elements for single-page applications. In their respective fields, both are effective tools for creating reliable applications. When React and Django are combined, the web application created will undoubtedly be safe and responsive, as React offers excellent single page optimization and Django has several strong features. This suggested system will swiftly and effectively load the data from the database, process it, and provide it to the clients. Customers will have little trouble differentiating between the conventional

The Electronics Webstore will be developed with an emphasis on addressing the shortcomings of the current technologies in order to provide an enhanced and more visually appealing application. The Electronics Webstore has been formed with enhanced usability, with a concurrent focus on the user interface and experience. The product components and user interface that will be shown to customers.

Implementation:

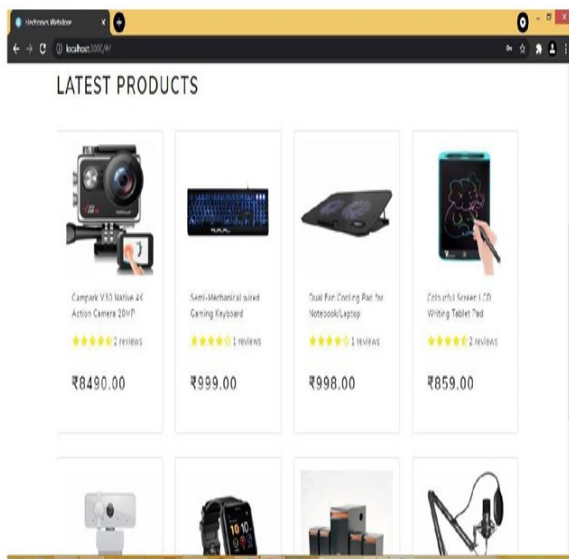


Fig: Home page

This depiction confirms the application's home page, which is the foremost thing a user sees. The photo carousels are a brilliant approach for the site to pull visitors in. They are simply an image slide show that showcases five popular commodities and the most recent products uploaded to the database. The site is updated with eight of the newest products at all times by the administrator who uploads the newest goods. The shopping cart, login, and search box are shown at the top for convenience.

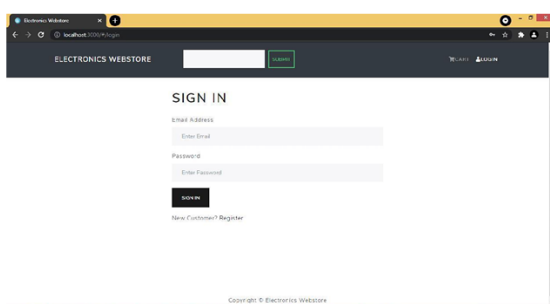


Fig Sign in page

The sign-in page for users is seen in this screenshot. Customers may sign into the application by providing their email address and password. The user will be taken to their account if the sign-in credentials are

verified as correct, and an error notice will appear on the screen if they are not. New users of the programme have the option to create an account by selecting the Register button located beneath the sign-in form. This website will be used by both administrators and consumers to access their accounts.

Test case:

Test case for search:

Serial No.	Input	Expected Output	Remark
1	Click search button without entering any data	Page stays the same without any change.	Failed
2	Enter a character and click search	Product item that has that character gets displayed	Successful
3	Enter a special character and click search	Search page displayed with empty items.	Successful
4	Enter a number and click search	Product item that has that number gets displayed	Successful
5	Enter multiple string and click search	Product item that match that strings gets displayed	Successful
6	Enter a word incorrectly	Invalid word gets highlighted with red underline and auto suggestion is on	Successful

EXPECTED OUTCOME

The developed e-commerce system that includes a few important parts: front page, products page, registration, login, and finally, contact methods. The front page is the initial page of a website. To attract customers, we put as much information as possible that is displayed while loading time is at a minimum of 3-4 seconds at most. The campus accessories tab will

direct the user to the main product page that contains the products list. Only the administrator has the right to add any product, update its price or delete any product. Product Page displays several major categories. In the details view, the products on this website are divided by categories and brands. Customers can have a closer look at any product by moving their mouse over the image in the product details section. If the customer wishes to buy a product, they have to add it to the shopping cart. They can add multiple products at a time. To complete the order, they need to checkout with registration and login using the required information, and complete the process by putting the delivery address and payment method.

Payment is a crucial component of e-commerce once you want to purchase products. Two payment methods are commonly used; the first one is cash on delivery, payment is accomplished after the goods, items, and services are delivered, and the second one is processed by a credit or debit card, which is accepted globally. In addition, mobile banking such as Rocket, BKash, Sure Cash, mCash, and similar is the most popular and convenient that is the most often utilized payment method in Bangladesh. Because of the high context culture, it is very important to develop trust among the people interested in a transaction, and the latter is regarded as a convenient payment platform for Bangladeshi people. Therefore, we selected two payment methods; card and mobile banking. After completing an order, there is a system where customers can track their order. In addition, customers can contact the authority in any necessity using a contact way.

Instalment is that the vital interaction inside the trade cycle, electronic instalment framework is that the basic a piece of electronic business. On account of the rise

of electronic business has made new monetary requirements through which new instalment frameworks are made while conventional instalment frameworks can't be prepared to satisfy its necessities.

CONCLUSION:

The "E-commerce website using Django" project was successfully completed. The assignment has been developed with great care and attention to detail. It is also error-free, proficient, and effective. The aim is to create a website that enables customers to purchase their desired products from the business and shop primarily online. I learned so much about responsive template usage, HTML and CSS site page planning, and a variety of Django issues in greater detail thanks to this work. This project has given me a great deal of satisfaction because it allowed me to create an application that is easily modified and used in any nearby businesses or designated stores that sell a variety of goods.

Promoting online and mobile commerce as a complement to traditional trade rather than as a replacement is a good business strategy. The collaborative efforts between online and disconnected enterprises will increase competence and result in a more consistent appearance. The longer future also includes a scenario that will see the growth of specialty organizations, as well as mergers and acquisitions to enable companies to grow inorganically. To attract and retain a larger audience, businesses should spend in the organization of services and the use of web advertising. Potential open doors are emerging inside the local business sectors through flexible entry, including mobile application framework, content improvement in regional dialects, and walkability. In the aftermath of demonetization, too Computerized payments are anticipated to increase, thus

businesses should embrace more secure payment infrastructure.

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